



**BEFORE THE PUBLIC UTILITIES COMMISSION OF THE
STATE OF CALIFORNIA**

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Order Instituting Rulemaking to Modernize the
Electric Grid for a High Distributed Energy
Resources Future.

Rulemaking 21-06-017

2022 GRID NEEDS ASSESSMENT AND DISTRIBUTION DEFERRAL OPPORTUNITY
REPORT OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E)

PUBLIC VERSION

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Dated: **January 13, 2023**

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Pursuant to the California Public Utilities Commission (Commission or CPUC) Decision on Track 3 Policy Issues, Sub-Track 1 (Growth Scenarios) and Sub-Track 3 (Distribution Investment and Deferral Process), Decision 18-02-004, the June 16, 2022 *Administrative Law Judge’s Ruling on Recommended Reforms for the Distribution Investment Deferral Framework Process, the Partnership Pilot and the Standard-Offer-Contract Pilot*,¹ and the August 30, 2022 *Administrative Law Judges’ Ruling Approving Pacific Gas and Electric Company’s Motion for an Extension to File Known Load Project Tracking Data And Partly Approving Southern California Edison Company’s Motion for Extension of Time to File 2022 Grid Needs Assessment/Distribution Deferral Opportunities Report*,² Southern California Edison Company (“SCE”) respectfully submits its 2022 Grid Needs Assessment and 2022 Distribution Deferral Opportunity Report in **Attachment A**.

¹ R.21-06-017, *Administrative Law Judge’s Ruling on Recommended Reforms for the Distribution Investment Deferral Framework Process, the Partnership Pilot and the Standard-Offer-Contract Pilot*, issued June 16, 2022.

² R.21-06-07, *Administrative Law Judges’ Ruling Approving Pacific Gas and Electric Company’s Motion for an Extension to File Known Load Project Tracking Data And Partly Approving Southern California Edison Company’s Motion for Extension of Time to File 2022 Grid Needs Assessment/Distribution Deferral Opportunities Report*, August 30, 2022.

As contemplated by the Administrative Law Judge's Ruling Addressing Pacific Gas and Electric Company, Southern California Edison Company, and San Diego Gas & Electric Company's Claims for Confidential Treatment and Redaction of Distribution System Planning Data Ordered by Decisions 17-09-026 and 18-02-004, dated July 24, 2018, and Section 3.3 of General Order 66-D, SCE is concurrently filing a motion to submit under seal unredacted versions of these materials, based on customer privacy considerations, as set forth in the Declaration of Erik Takayesu attached to the motion.

Respectfully submitted,

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January 13, 2023

Attachment A

Southern California Edison Company's

2022 Grid Needs Assessment & Distribution Deferral Opportunity Report

Grid Needs Assessment & Distribution Deferral Opportunity Report

Southern California Edison's Narrative 2022

January 13, 2023

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1. Executive Summary

Southern California Edison Company (SCE) hereby submits the narrative for its 2022 Grid Needs Assessment (GNA) report and 2022 Distribution Deferral Opportunity Report (DDOR) as directed by the California Public Utilities Commission's (Commission or CPUC) Decision (D.) 18-02-004 and Administrative Law Judge (ALJ) Rulings on Distribution Investment Deferral Framework (DIDF) reforms.¹

On July 29, 2022, SCE filed a motion seeking expedited approval for extension of its 2022 GNA report and DDOR (Motion). The Motion was initiated by updates to SCE's planning software which resulted in the incorrect correlation of historical weather data to the circuits and substations in SCE's service area. This produced an incorrect forecast and, consequently, SCE needed to update its entire 2022 Distribution Planning Process (DPP) results. On August 30, 2022, an ALJ ruling partially approved SCE's Motion (August 2022 ALJ Ruling).² Pursuant to this August 2022 ALJ Ruling, SCE filed its partial report on September 2, 2022 (the "Partial 2022 DDOR Filing") and is filing this complete report on January 13, 2023.

The GNA report presents the forecasted load and distributed energy resources (DER) planning assumptions as well as the identified distribution and subtransmission needs that fall under one or more of the four distribution services: capacity, voltage/reactive power support, reliability (back-tie), and resiliency (microgrid). The DDOR presents SCE's planned investments that address grid needs identified in the GNA report and a shortlist of candidate deferral projects resulting from applying initial deferral screens to the planned investments. The candidate deferral project list is prioritized in a tiered format to be considered for potential deferral via SCE procurement of DER.

SCE has identified 321 grid needs, 285 planned investments³, and 25 candidate deferral projects in its 2022 GNA/DDOR. Candidate deferral projects are prioritized into three tiers according to the prioritization metrics framework.

SCE recommends that Tier 1 projects move forward to solicitation unless qualitative factors indicate that the successful deferral of a particular project would be highly unlikely. Tier 2 projects have increased uncertainties around the potential success of distribution deferral through a DER solution and, thus, may not be appropriate for

¹ See R.14-08-013, *Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework Process*, issued May 7, 2019 (2019 DIDF Ruling), R.14-08-013, *Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework Process*, issued April 13, 2020 (2020 April DIDF Ruling), R.14-08-013, *Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework – Filing and Process Requirements*, issued May 11, 2020 (2020 May DIDF Ruling), R.14-08-013, *Administrative Law Judge's Ruling on Recommended Reforms for the Distribution Investment Deferral Framework Process*, issued June 21, 2021 (2021 DIDF Ruling), and R.21-06-017, *Administrative Law Judge's Ruling on Recommended Reforms for the Distribution Investment Deferral Framework Process, the Partnership Pilot and the Standard-Offer-Contract Pilot*, issued June 16, 2022 (2022 DIDF Ruling).

² R.21-06-017, *Administrative Law Judges' Ruling Approving Pacific Gas and Electric Company's Motion for An Extension to File Known Load Project Tracking Data and Partly Approving Southern California Edison Company's Motion for Extension of Time to File 2022 Grid Needs Assessment/Distribution Deferral Opportunities Report*, issued August 30, 2022.

³ There are 437 rows of data in the DDOR planned investment sheet. Some projects having multiple rows of data.

deferral via DER procurement. Tier 3 represents the set of projects that SCE believes should not be considered for deferral unless required by official reform or ruling. Tier 3 projects are unlikely to be successfully deferred by DERs due to low relative cost effectiveness, forecast certainty, and/or market assessment scores or qualitative factors based on past distribution deferral through DER experience. Table 1 summarizes the tiered results of SCE's 2022 candidate deferral projects.

TABLE 1: SCE'S TIERED 2022 CANDIDATE DEFERRAL PROJECT SUMMARY

Tier	Project Description	Operating Date	Max Deficiency (MW)
1	Rebuild Saugus-Haskell 66 kV Subtransmission Line	2026	4.0
	Rebuild Mesa-Narrows 66 kV Subtransmission Line	2025	1.5
	Install a New 12kV Circuit at Triton 115/12 kV Substation	2026	3.7
	Rebuild Santa Clara-Colonia 66 kV Subtransmission Line	2026	21.9
	Install a New 12 kV Circuit at Irvine 66/12 kV Substation	2025	3.4
	Install a New Transformer at Alessandro 115/33 kV Substation	2025	2.0
	Install a New 16 kV Circuit at Bullis 66/16 kV Substation	2025	2.8
	Install Rector-Riverway No. 2 66 kV Subtransmission Line	2026	21.0
	Rebuild Elizabeth Lake-Pitchgen 66 kV Subtransmission Line	2026	13.2
2	Install a New 16 kV Circuit at Elizabeth Lake 66/16 kV Substation	2026	5.6
	Upgrade Transformers at North Oaks 66/16 kV Substation	2025	21.1
	Reconfigure Browning - Delano 66 kV Subtransmission Line	2025	8.5
	Install a New Transformer at Mira Loma 66/12 kV Substation	2025	8.4
	Install a New 12 kV Circuit at Bloomington 66/12 kV Substation	2025	5.7
	Install a New 12kV Circuit at Chase 66/12 kV Substation	2025	3.6
	Cal City Project: Construct a New 115/12 kV Substation and Construct New 115 kV Subtransmission Lines	2028	80.7
	Del Valle Project: Construct a New 66/16 kV Substation and Construct New 16 kV Circuits	2027	55.3
3	Alberhill System Project: Construct a New 500/115 kV Substation and associated 500 kV source lines and 115 kV lines	2029	286.3
	Construct a New 16 kV Circuit at Gonzales 66/16 kV Substation	2025	16.8
	Increase Sunnyside 66/12 kV Substation by Eliminating Limiting Components	2026	1.0
	Install a New 16 kV Circuit at Saugus 66/16 kV Substation	2026	16.2
	Install a New 12 kV Circuit at Talbert 66/12 kV Substation	2025	4.6
	Upgrade Transformer and Construct a New 12kV Circuit at Valley 115/12 kV Substation	2025	15.7
	Install a New Capacitor at Devers 220/115 kV Substation	2026	70.0
	Install a New 12 kV Circuit at Bain 66/12 kV Substation	2025	4.7

SCE's Partial 2022 DDOR Filing presented 17 candidate deferral projects. With the finalization of SCE's DPP update, there are nine additional candidate deferral projects identified (presented in bold in Table 1), and one candidate deferral project previously in Tier 3 was removed from the list as its operating date was postponed to outside of the five-year reporting window. Among the nine new candidate deferral projects, two are ranked in Tier 1, three are in Tier 2, and four are in Tier 3. These new projects are identified in **bold** font in the table.

Integrated Distributed Energy Resources (IDER) D. 21-02-006 required investor-owned utilities (IOUs or Utilities) to recommend at least three projects for the Partnership Pilot, which is only open to behind-the-meter (BTM) DER technologies, and to recommend at least one project for the Standard Offer Contract (SOC) pilot, which is only open to in-front-of-the-meter (IFOM) DER technologies. SCE's Partnership Pilot selection methodology ranks candidate deferrals according to the available opportunities for customer enrollment in BTM DER programs. The SOC Pilot selection methodology ranks projects according to land availability near the electric asset(s) with need.

Table 2 summarizes SCE’s recommendations for the top-ranking candidate deferral projects, with bold font indicating new projects not identified in the Partial 2022 DDOR Filing.

TABLE 2 CANDIDATE DEFERRAL PROJECT RECOMMENDATIONS FOR THE IDER PILOTS

Project	Tier	Operating Date	Max 10 Year Deficiency (MW)	Recommendation
Rebuild Saugus-Haskell 66 kV Subtransmission Line	1	2026	4.0	Partnership Pilot
Rebuild Mesa-Narrows 66 kV Subtransmission Line	1	2025	1.5	IOU-Owned DER
Install a New 12kV Circuit at Triton 115/12 kV Substation	1	2026	3.7	DIDF RFO
Rebuild Santa Clara-Colonia 66 kV Subtransmission Line	1	2026	21.9	In 2021-2022 Partnership Pilot
Install a New 12 kV Circuit at Irvine 66/12 kV Substation	1	2025	3.4	IOU-Owned DER
Install a New Transformer at Alessandro 115/33 kV Substation	1	2025	2.0	SOC Pilot
Install a New 16 kV Circuit at Bullis 66/16 kV Substation	1	2025	2.8	Partnership Pilot
Install Rector-Riverway No. 2 66 kV Subtransmission Line	1	2026	21.0	Partnership Pilot
Rebuild Elizabeth Lake-Pitchgen 66 kV Subtransmission Line	1	2026	13.2	Can be deferred by Existing DIDF DER project
Upgrade Transformers at North Oaks 66/16 kV Substation	2	2025	21.1	Partnership Pilot
Install a New Transformer at Mira Loma 66/12 kV Substation	2	2025	8.39	IOU-Owned DER

Standard Offer Contract Pilot and DIDF Request for Offer:

In the Partial 2022 DDOR Filing, SCE recommended the *Install a New Transformer at Alessandro Substation* project for the SOC Pilot and the *Install a New 12 kV Circuit at Triton Substation* project for DIDF RFO. Both solicitations were launched on September 15, 2022 and are currently in the final stage of selection.

Partnership Pilot:

In the Partial 2022 DDOR Filing, SCE recommended three candidate deferral projects for the Partnership Pilot:

- The *Saugus-Haskell 66kV Subtransmission Line Rebuild* Project
- The *New Rector-Riverway No. 2 66kV Subtransmission Line* Project
- The *Upgrade Transformers at North Oaks Substation* Project

SCE filed a Tier 2 Advice Letter (AL) seeking approval to launch the Partnership Pilot on November 15, 2022⁴ and received AL 4905-E Disposition Letter with the Commission’s approval on December 20, 2022⁵. The subscription periods will open on January 19, 2023:

⁴ “Southern California Edison Company’s Request for Approval to Launch the 2023 Partnership Pilot,” Advice 4905-E, Nov. 15, 2022.

⁵ CPUC Disposition Letter, Acceptance Effective Dec. 15, 2022, of Advice Letter 4905-E, Southern California Edison Company’s Request for Approval to Launch the 2023 Partnership Pilot, Nov. 15, 2022.

SCE also recommends the newly identified *Install a New 16 kV Circuit at Bullis 66/16 kV Substation* project for Partnership Pilot.

SCE Owned DERs:

Two of SCE’s Candidate Deferral projects have utility-owned and operated Battery Energy Storage Systems (BESS) at the need location that can be utilized to meet the project needs and to defer the projects.

- The *Rebuild Mesa-Narrows 66 kV Subtransmission Line* project
- The *Install a New Transformer at Mira Loma Substation* project

SCE is exploring IOU-owned DER options for the newly identified *Install a New 12 kV Circuit at Irvine 66/12 kV Substation* project.

Other Projects:

Among the remaining Tier 1 projects, the *Rebuild Santa Clara-Colonia 66 kV Subtransmission Line* project is currently in the Partnership Pilot launched January 2022. In addition, SCE is currently exploring whether a previously procured DER project can be leveraged to meet the need of the *Rebuild Elizabeth Lake – Pitchgen 66 kV Subtransmission Line* project. Therefore, SCE does not recommend these two Tier 1 projects for additional DER solicitations.

2. Background and Regulatory Requirements

On August 14, 2014, the CPUC issued Rulemaking (R.) 14-08-013, which established guidelines, rules, and procedures to direct California’s IOUs to develop Distribution Resources Plans (DRPs). On February 15, 2018, the Commission issued D. 18-02-004 which directed IOUs to file a GNA report and DDOR on an annual basis.⁶ On May 7, 2019, the Commission issued the 2019 DIDF Ruling to modify the DIDF process based on parties’ comments.⁷ The 2019 DIDF Ruling directed IOUs to file both the GNA report and DDOR on August 15 annually. Later, the Commission issued the 2020 April DIDF Ruling and the 2020 May DIDF Ruling to further modify the DIDF process based on parties’ comments.^{8,9} The 2020 April DIDF Ruling modified the IPE scope of work and provided the updated 2020-2021 DIDF schedule. The 2020 May DIDF Ruling established 56 new reform requirements. On February 11, 2021, the Commission issued IDER D. 21-02-006 which introduced the Partnership Pilot and the SOC Pilot and streamlined the DIDF RFO. Later, the Commission issued the 2021 DIDF Ruling¹⁰ to establish eight new reforms based on parties’

⁶ D.18-02-004, *Decision on Track 3 Policy Issues, Sub-Track 1 (Growth Scenarios) and Sub-Track 3 (Distribution Investment and Deferral Process)*, issued February 15, 2018.

⁷ R.14-08-013, 2019 DIDF Ruling.

⁸ R.14-08-013, 2020 April DIDF Ruling.

⁹ R.14-08-013, 2020 May DIDF Ruling.

¹⁰ R.14-08-013, 2021 DIDF Ruling.

comments and revise seven reforms from the 2020 May DIDF Ruling to address parties' comments and to align with the requirements adopted by D. 21-02-006.¹¹ Recently, the Commission issued the 2022 DIDF Ruling¹² to establish seven reforms to three solicitation frameworks.

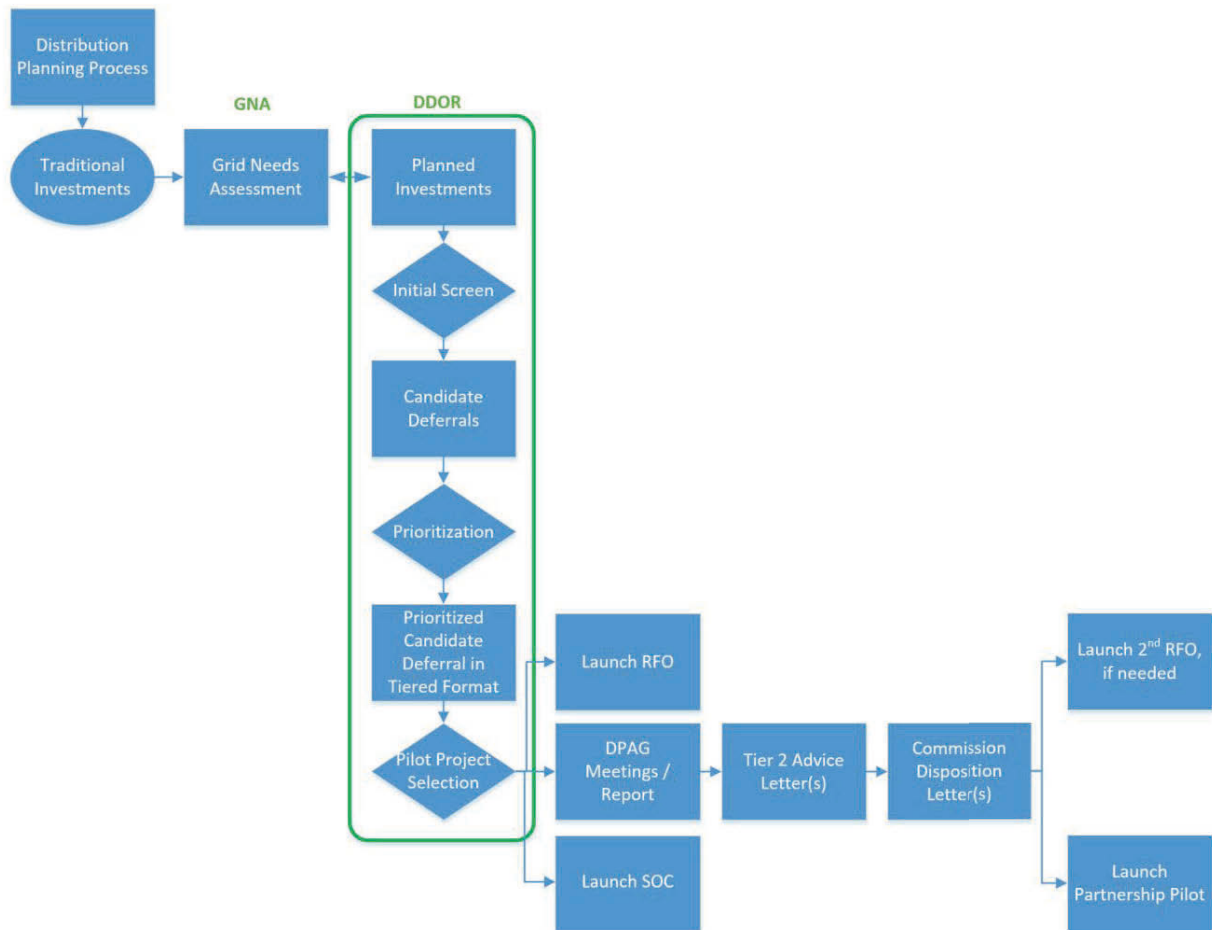
The GNA report presents the grid needs identified throughout SCE's distribution and subtransmission system that fall under one or more of the four distribution services adopted by D.16-12-036 as well as load and DER forecast components for distribution circuits/feeders and distribution substations with voltage levels 33KV and below in SCE's service territory. The DDOR presents SCE's planned investments that address grid needs listed in the GNA report, as well as the candidate deferral project shortlist that results from applying initial deferral screens to the planned investments. Candidate deferral projects are presented in a tiered format based on the prioritization. Recommendations for the DIDF RFO, SOC Pilot, and Partnership Pilot are based on corresponding selection criteria.

D.18-02-004 states: "[t]he central objective of the DIDF is to identify and capture opportunities for DERs to cost-effectively defer or avoid traditional IOU investments that are planned to mitigate forecasted deficiencies of the distribution system." Therefore, SCE's annual DIDF process starts at the completion of its annual DPP, during which engineers evaluate the capability of the existing distribution and subtransmission system to safely and reliably serve the forecasted net demand developed (in part) using the Integrated Energy Policy Report (IEPR) forecast from the California Energy Commission (CEC). Figure 1 below illustrates the overall DIDF process.

¹¹ D.21-02-006, *Decision Adopting Pilots to Test Two Frameworks for Procuring Distributed Energy Resources That Avoid or Defer Utility Capital Investments*, issued February 11, 2021.

¹² R.21-06-017, 2022 DIDF Ruling.

FIGURE 1: OVERALL DIDF PROCESS



Pursuant to the various aforementioned decisions and rulings, the GNA and DDOR are required to be filed each year by August 15 and the DRP Data Portal (i.e., DRP External Portal or DRPEP for SCE) is to be updated with GNA/DDOR data by August 30. By September 15, SCE is required to launch its SOC Pilot for at least one Tier 1 project and its RFO for additional Tier 1 candidate deferrals that SCE recommends for solicitation. Distribution Planning Advisory Group (DPAG) meetings are expected to occur during September and October, followed by the IPE's final DPAG report in October. SCE is required to file up to three Tier 2 Advice Letters by November 15: (1) should SCE determine that certain Tier 2 projects be elevated to Tier 1, based on DPAG, Commission, or IPE feedback, SCE will file a Tier 2 Advice Letter seeking approval to launch a second DIDF RFO for the additional projects; (2) a Tier 2 Advice Letter will be filed to request approval to not include any remaining candidate deferral opportunities and planned investments identified in the GNA/DDOR filings within the DIDF RFO;¹³ and (3) a Tier 2 Advice Letter seeking approval to launch the Partnership Pilot, the subscription period for which would open in January the following year.

¹³ 2020 May DIDF Ruling, Reform #40, p.96.

This year, per the August 2022 ALJ Ruling¹⁴ partly approving SCE’s motion for extension, SCE submitted its Partial 2022 DDOR Filing on September 2, 2022 and published the candidate deferral project data to DRPEP on September 16, 2022. SCE launched its 2022 RFO and SOC Pilot on September 15, 2022. SCE held its DPAG meeting on September 23, 2022 and its DPAG follow-up meeting on October 20, 2022, while the IPE’s initial DPAG report, based on the Partial 2022 DDOR Filing, was issued on Nov. 14, 2022. SCE filed a Tier 2 Advice Letter seeking approval to launch the Partnership Pilot on Nov. 15, 2022.¹⁵ Pursuant to the August 2022 ALJ Ruling, SCE submitted its Advice Letter seeking approval not to launch a Request for Offer, Standard Offer Contract, or Partnership Pilot for any remaining planned investments or candidate deferral opportunities on January 13, 2023, coinciding with the present report. The IPE’s final DPAG report for SCE will be issued by March 15, 2023.

Table 3 summarizes the regulatory timelines and milestones associated with SCE’s GNA/DDOR, DPAG and Competitive Solicitation.

TABLE 3: 2022-2023 REGULATORY TIMELINES AND MILESTONES ASSOCIATED WITH GNA, DDOR, DPAG AND COMPETITIVE SOLICITATION

Item	Date	Responsible Party		
		IOUs	IPE	CPUC
Partial DDOR	9/2/2022	X		
DRPEP (2022 DDOR Candidate Deferral Only)	9/16/2022	X		
Preliminary analysis	9/5/2022		X	
DPAG Primer Meeting	9/19/2022	X		
DPAG meeting	9/23/2022	X		
Launch RFO & SOC	9/15/2022	X		
Tier 2 Advice Letters	11/15/2022	X		
Commission Disposition of SCE Advice Letters	12/20/2022			X
GNA/DDOR	1/13/2023	X		
Launch Partnership Pilot	1/19/2023	X		
Launch 2nd Round of RFO, if needed	Within 30 days of the DIDF Advice Letter approval	X		
DRPEP	1/27/2023	X		
DIDF Reform Comments	2/2023-3/2023	X		
Final DPAG Report	~3/25/2023	X		

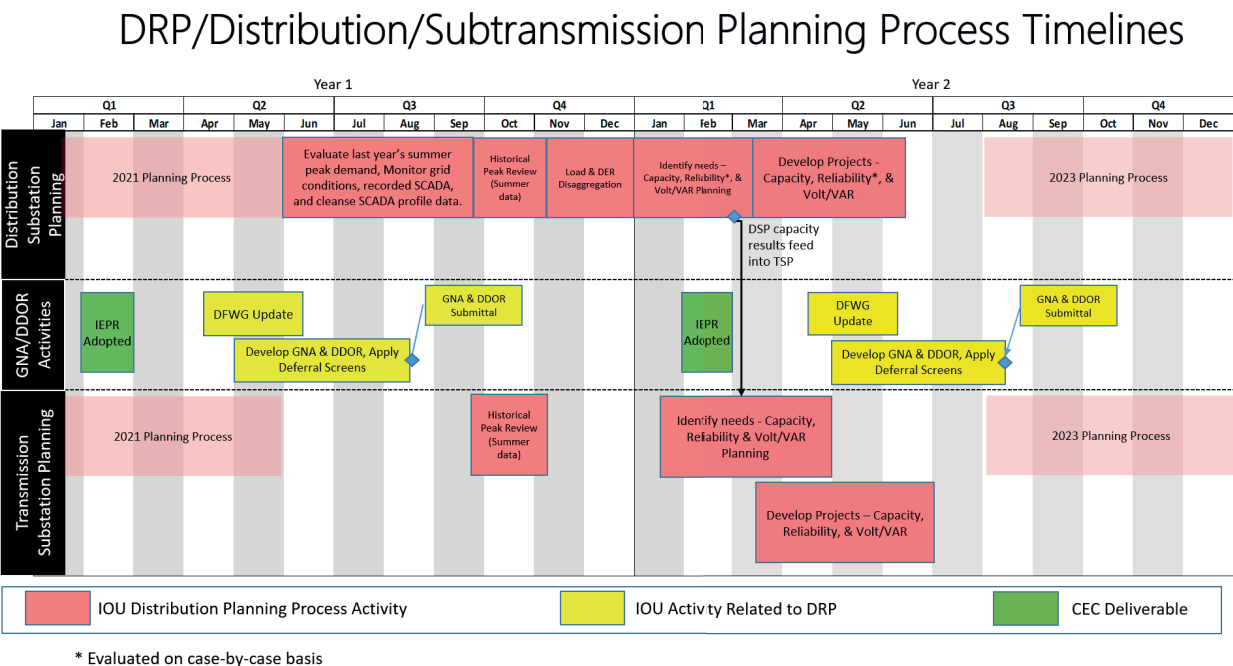
¹⁴ R.21-06-017, *Administrative Law Judges’ Ruling Approving Pacific Gas and Electric Company’s Motion for An Extension to File Known Load Project Tracking Data and Partly Approving Southern California Edison Company’s Motion for Extension of Time to File 2022 Grid Needs Assessment/Distribution Deferral Opportunities Report*, issued August 30, 2022.

¹⁵ “Southern California Edison Company’s Request for Approval to Launch the 2023 Partnership Pilot,” Advice 4905-E, Nov. 15, 2022.

3. Distribution Planning Process (DPP)

SCE’s typical timelines for major DPP activities and its integration with the GNA report and DDOR is displayed in Figure 2. Please note that this does not necessarily represent the exact timeline to which SCE will be adhering for a particular year’s DPP. The timing for these major activities could vary depending on when SCE’s distribution system observes its peak loading conditions. Future software tool advancement and regulatory requirements may also impact this process.

FIGURE 2: DRP/DISTRIBUTION/SUBTRANSMISSION PLANNING PROCESS TIMELINES



As explained in the Motion¹⁶, SCE’s planning software update unexpectedly caused an incorrect correlation of historical weather data to the circuits and substations, which resulted in an incorrect forecast. SCE therefore updated its entire 2022 DPP results, which necessarily resulted in deviation from the typical process timeline above.

3.1. Historical Profile Review

DPP activities begin after a region’s annual peak demand is believed to be reached. Most of SCE’s service territory experiences peak demand conditions during the summer months which start in June and last through September and occasionally October. SCE begins its planning process for all of its system in October or November, after summer peaking demand conditions have passed.

¹⁶ R.21-06-017, Motion of Southern California Edison Company for Extension of Time to Submit 2022 Grid Needs Assessment/Distribution Deferral Opportunities Report, filed July 29, 2022 (Motion), p. 2.

After the peak seasons conclude, engineers review the recorded demand profiles of each distribution circuit and distribution substation to analyze the historical peak demand and determine if any abnormal conditions¹⁷ were present during recorded peak demand. Abnormal data is removed and adjusted to represent normal conditions. SCE then uses the cleansed profiles to determine the starting demand for each circuit and substation. The starting demand is the value for which incremental demand and DER forecast is added to develop a final forecast for all of SCE's substations and circuits.

3.2. Load and DER Disaggregation

SCE adds the CEC IEPR forecast to the starting demand to develop the 10-year forecast for all distribution circuits which is then aggregated to the substation level. The IEPR forecast is provided at the entire SCE system level, and not with the granularity necessary to reflect localized electrical assets on distribution and subtransmission systems. SCE and stakeholders participate in the Distribution Forecasting Working Group (DFWG) to discuss load and DER disaggregation methodologies to allocate system-wide forecasts to the distribution circuit level. As noted within the DFWG Report, "SCE also incorporates additional load growth that may not have been fully reflected in the CEC forecast."¹⁸ This incremental load growth is further discussed in Section 4.2. The IEPR datasets used by SCE within its 2022 DPP are discussed later in Section 4.

3.2.1. Load Disaggregation

SCE's disaggregation methodology of the IEPR load growth forecast encompasses specific local-area knowledge from the system planning engineers on new development projects as well as econometric data relative to each planning area. SCE's system planning engineers work closely with developers of agricultural, commercial, industrial, and residential developments to understand the electrical needs and timing of these projects to estimate the projected increases in demand on SCE's distribution facilities. These projected demand increases are developed based on developer provided information, progress of development, and institutional knowledge from similar developments in the past. Most of these local known Load Growth Projects (LGPs) are considered as embedded or reflected in the CEC's IEPR load growth forecast and incorporated in SCE's load disaggregation process. However, the IEPR forecast does not account for all types of load growth seen on SCE's system. For example, Commercial Electric Vehicle Chargers, Cultivation, and Temporary Power LGPs are not directly accounted for as part of the IEPR forecast. The load from these LGPs is added incrementally to the IEPR forecast. Both types of LGPs are considered in the SCE load growth forecast. Further details on SCE's methodology for developing the 10-year load forecast are provided in Section 4.

3.2.2. DER Disaggregation

SCE disaggregates the IEPR DER forecasts and adds them to the disaggregated load growth forecast to develop the net demand forecast for all distribution substations and circuits. The DER types SCE utilizes from the IEPR for its 10-

¹⁷ Examples of abnormal conditions include but are not limited to temporary circuit reconfiguration during emergency outage scenarios or to perform planned work such as new equipment installation, repair, or replacement.

¹⁸ Joint-IOUs and Itron, "Distribution Forecasting Working Group Progress Report," July 2, 2018 (available at <http://docs.cpuc.ca.gov/PublishedDocs/Efile/G000/M229/K731/229731972.PDF>), p.97.

year forecast include: Energy Efficiency (EE), Transportation Electrification (TE), solar photovoltaic (PV) systems, Energy Storage (ES), Load Modifying Demand Response (LMDR), and Time of Use (TOU) rates.¹⁹ Some DERs reduce net demand (EE, PV, LMDR), while others increase net demand (TE), and ES both reduces and increases net demand. TOU is unique as it does not necessarily increase or decrease demand but instead seeks to shift demand to off-peak time periods.

Once the disaggregated DER forecasts are developed and integrated with the disaggregated load forecast, the result is a forecast that serves as the necessary input to SCE's annual DPP. Further details on SCE's methodology for disaggregating the CEC IEPR DER-related forecasts are contained in Section 4.

3.3. Identify Electric System Needs

After the load and DER forecasts are developed, engineers perform technical studies to determine whether the forecasted net demand can be accommodated by existing electric facilities, under normal and emergency conditions. The analysis compares the forecasted net demand under the applicable weather design criteria over a 10-year period to the electric equipment ratings.

When the study indicates forecasted net demand exceeds equipment ratings, engineers develop alternative solutions to solve the identified needs. SCE first seeks to maximize the utilization of existing assets before developing projects that require the installation of new or modification of existing infrastructure.

The data to be contained in SCE's 2022 GNA report represents the grid needs after engineers have maximized utilization of existing equipment, therefore require planned investments to continue to operate the system safely and reliably.

3.4. Develop Projects Solving Electric System Needs

The last step of the DPP is to develop planned investment alternatives to mitigate the grid needs that could not be solved through a no cost solution. Engineers evaluate alternative solutions to select the most cost-effective alternative that meets long-term system needs. The solutions are evaluated based on the following sequential order, beginning with the lowest cost alternatives:

- Maximizing equipment utilization by transferring customers between existing equipment;
- Modifications to existing distribution circuitry;
- Constructing new distribution circuits;
- Substation expansion;
- Constructing new substations

Throughout the progression, SCE develops a set of alternative solutions that can address the forecasted electric system needs. SCE uses stakeholder input with reliability, operational flexibility, and cost-effectiveness factors, to

¹⁹ CEC IEPR ES forecast is a trend analysis of recent historical adoptions of the Self-Generation Incentive Program (SGIP) program.

determine which projects are technically feasible and eliminates those that are not. Of the solutions that remain, SCE then selects the most suitable project as the preferred solution with which to proceed.

SCE did not evaluate SCE-owned DERs as solution alternatives in conjunction with traditional wires solutions as part of its 2022 DPP. SCE is still working through internal processes, software capabilities, technical training, and evaluation methodologies to enable engineers to evaluate SCE owned and operated DER as solutions within its DPP. SCE intends to evaluate SCE-owned DERs as solutions in future planning processes and expects the level of integration to be iteratively improved over time as methods, software, and processes are further developed.

4. In-Depth Forecast Examination & Disaggregation Methods

SCE presented the list of IEPR scenarios (Table 4) and DER disaggregation methodologies used in its 2022 DPP to the DFWG on May 13, 2021. The objective of the DFWG was to “vet the disaggregation methods and data sources available and operational profiles, ensure that the circuit level forecasts apply the best available data sources and incorporate evaluation feedback in future forecasts.”²⁰ The details within this section complement the DFWG.

TABLE 4: 2022 IEPR SCENARIOS FOR DISTRIBUTION PLANNING

Calendar Year 2022-2023 2022 GNA/DDOR		
DER	Scenario	IEPR Vintage
Solar PV	Mid	2020 Update
Energy Storage	Mid	2020 Update
Electric Vehicles	High	2020 Update
Non-LDV EV	High	2020 Update
Energy Efficiency	Low	2020 Update
Load Modifying Demand Response	Mid	2020 Update
Load	Mid	2020 Update
Time of Use	Mid	2020 Update
Solar PV, Energy Storage, EV, Non-LDV EV, and Load forecasts were updated in the 2020 IEPR Update		
EE, LMDR, and TOU forecast remain 2019 IEPR Vintage, but impacts reported in the 2020 IEPR Update		

SCE utilizes various software to support the disaggregation and development of the distribution forecast. Historically, the SCE-developed Planning Software, Master Distribution Interface (MDI), allowed for end-to-end preparation of a point-based forecast. As SCE’s DPP evolves, SCE continues to develop solutions as part of its Long-Term Planning Tool (LTPT) to begin shifting the point-based forecast to be fully profile-based.

Given that LTPT and other Grid Modernization Engineering and Planning tools are still under development, SCE is in a transitional phase, as shown in Figure 3, where profile-based portions of the forecast are developed within SCE’s

²⁰ Joint-IOUs and Itron, “Distribution Forecasting Working Group Progress Report,” July 2, 2018 (available at <http://docs.cpuc.ca.gov/PublishedDocs/Efile/G000/M229/K731/229731972.PDF>)

LTPT- Forecasting Tool, which utilizes Statistical Analysis System (SAS) as its software engine, and others are still developed within SCE’s legacy planning tool system. SCE’s profile-based forecast data leverages statistical tools (e.g., SAS), Geographic Information System (GIS) tools (e.g., ArcGIS), and historical profile tools (e.g., SCE’s Grid Analytics Tool (GAT) powered by Re|Grid). Use of these tools supports the IEPR disaggregation process and determination of the net demand forecast and allows SCE to broaden its planning capabilities. Methodologies and tools are updated annually to continually improve and enhance SCE’s DPP. The current end-to-end process is explained at a high level in Section 4.3.

4.1. CEC System Level Forecast Adjustments

This section describes the adjustments made to the CEC system level forecast (i.e., 2020 IEPR Update) to support disaggregation of load growth (non-DER) at the SCE circuit level.

The IEPR forecast load growth information (i.e., “consumption in energy”) is gathered from the “SCE Load Modifier Mid Baseline-Mid AAE-AAPV CED Sheet” published by the CEC. The first adjustment is to remove Transportation Electrification DERs embedded in the CEC’s consumption load forecast to prevent double counting since all DER forecasts will be disaggregated separately and integrated with the load forecast later. The next adjustment is to remove load associated with Public Operating Utilities (POUs) or similar entities based on information found in Form 1.5a.²¹ The purpose of this adjustment is to account only for load growth for facilities considered part of the SCE service territory within the load disaggregation. After completing the steps above, the resulting incremental consumption load forecast from CEC IEPR is used for SCE’s load growth disaggregation down to the circuit level.

4.2. Other Forecast Adjustments

In addition to the adjustment to the CEC system-level forecast, post-disaggregation load growth adjustments are made at the SCE circuit level to reflect Incremental LGPs. Incremental LGPs include load from new industries and load that is unlikely to be reflected in economic indicators used to develop the IEPR forecast. SCE engaged the CEC in technical discussions around any significant load impact SCE expected from its LGPs (e.g., large cannabis cultivation projects and electric fleet fast-charging infrastructure projects) through its 2022 DPP analysis.²² In addition, as part of the 2021 CEC IEPR Form development, SCE provided additional large local known growth project impact through the newly designed IEPR Form 3, “Demand Modifier Impacts”. SCE will continue those discussions with CEC in future years to help the CEC develop a more comprehensive IEPR load forecast to capture additional LGPs that SCE distribution planners observe over SCE’s service area.

The initial disaggregation of load and DER forecast at the circuit level represents the maximum amount (e.g., maximum capacity or total annual energy) of load or DER forecast consistent with the CEC’s system level forecast. To provide engineers with more informed load and DER forecast for planning purposes, SCE further applies unique

²¹ California Energy Commission, “2019 IEPR: Form 1.5a – Statewide CED Update Forecast, 2019-2030, Mid Demand Baseline Case, No AAE/AAPV,” January 24, 2019 (available at <https://efiling.energy.ca.gov/GetDocument.aspx?tn=226367&DocumentContentId=57142>).

²² These conversations were presented to the IPE during the 2022 Validation and Verification associated with IPE Business Process Step 4.

hourly profiles to the disaggregated load forecast, DER forecast, and Incremental LGPs for each circuit. SCE then derives circuit peak times based on the maximum of the integrated hourly load forecast. Finally, SCE establishes the coincident load and DER impacts corresponding to the circuit peak time. Some primary inputs SCE utilizes to do this include the following: DER shapes by type, representative load shapes by sector (Residential, Commercial, Industrial, and Agriculture), and forecasted load shapes. Given the above, the amount of incremental load and DER growth accounts for coincidence with circuit peak time which may result in amounts less than the maximum initially disaggregated.

4.3. Disaggregation of System Level DER and Load Forecasts to Circuits

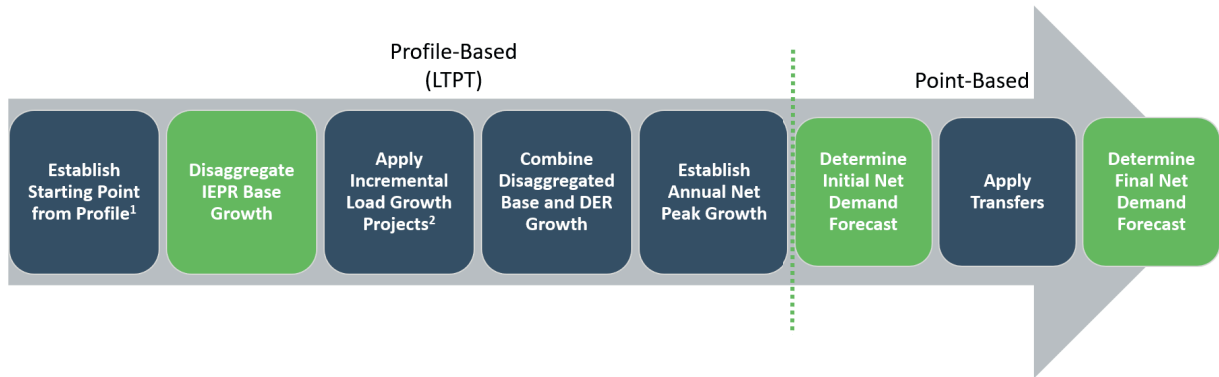
The CPUC designated the CEC's load forecast to be the "state's official load forecast"²³ and ordered the IOUs to use the CEC IEPR forecasts for all future distribution planning cycles. This section provides a high-level overview of the current distribution forecast process, which entails the following and is summarized in Figure 3:

1. Establish Starting Demand from Profile: The starting demand is developed within SCE's LTPT-Forecasting software using historical recorded demand from cleansed profiles from SCE's GAT software. This encompasses the most recent peak season that is weather-normalized.
2. Disaggregate IEPR Load Growth: This step disaggregates the IEPR load forecast down to the distribution circuit level using embedded local LGP information and time-series econometric model forecasts. This is performed in SCE's LTPT-Forecasting software utilizing allocation factors within the whirlpool method discussed in Section 4.3.2.1.
3. Disaggregate IEPR DER Growth: This step disaggregates the IEPR DER forecast to the distribution circuit level using DER adoption, customer attributes, and program participation information. This is performed in various software tools (e.g., R programming).
4. Apply Incremental Load Growth Projects: Incremental LGPs are applied to specific circuit forecasts after the IEPR load growth disaggregation.
5. Integrate Disaggregated Base Demand and DER Growth: Unique hourly profiles are applied to the IEPR disaggregated load, IEPR disaggregated DER, and Incremental LGPs for each circuit. The hourly load and DER forecasts are integrated for each circuit resulting in the initial 8760 hourly net demand forecast reflecting disaggregated load, DER, and incremental LGP impacts.
6. Establish Annual Net Peak Growth: Circuit peak times are derived based on the maximum of the integrated hourly net demand forecast. The coincident load and DER impacts are established corresponding to the circuit peak time. The output of this step is a combination of the coincident load and DER impacts that are applied to the forecast.
7. Determine Initial Net Demand Forecast: This step calculates the net demand forecast prior to application of transfers.
8. Apply Transfers: Where grid needs can be resolved through no cost solutions, transfers are applied where existing equipment capacity is available.
9. Determine Final Net Demand Forecast: This step represents the final net demand forecast under the applicable weather design criteria over a 10-year period that is a resultant from all the previous steps.

²³ Decisions 05-10-042/07-12-052/18-02-004.

FIGURE 3: SCE'S END-TO-END DISTRIBUTION FORECAST PROCESS

SCE's End-to-end Distribution Forecast Process



¹ Starting Point derived from cleansed historical 8760 profiles reflect the weather-normalized peak, which typically occurs during Summer for the majority of SCE's system.

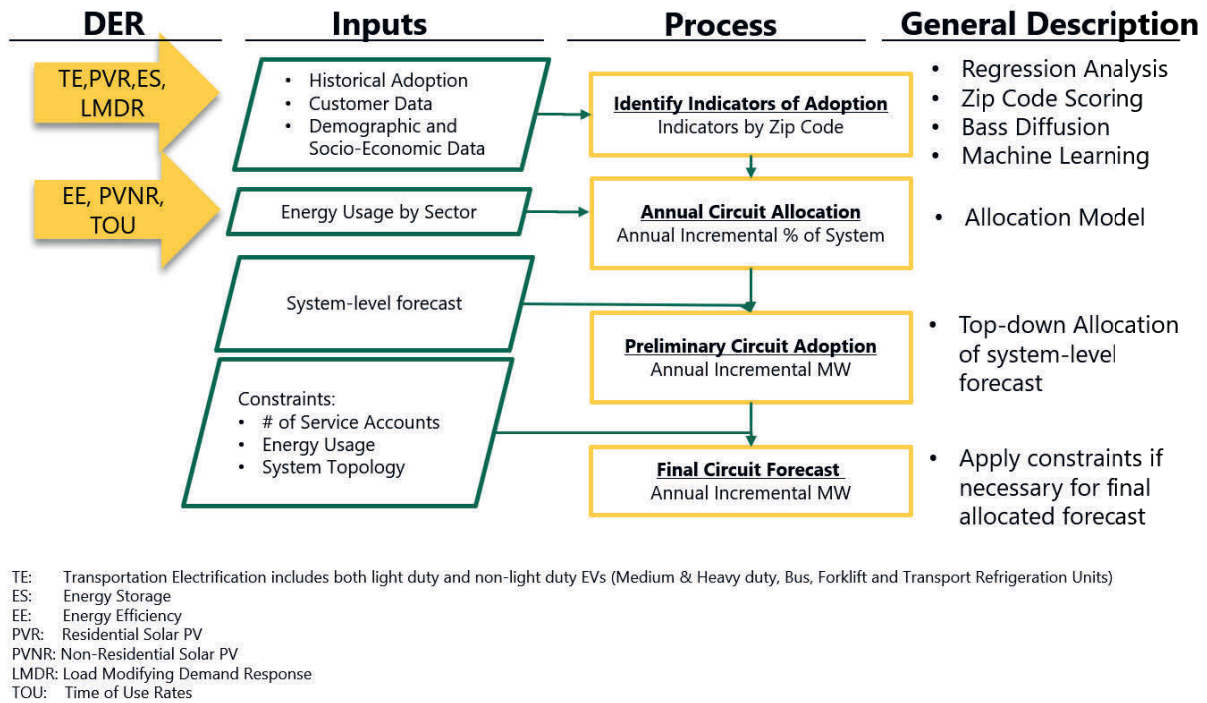
² SCE consults with the CEC to determine which projects are considered incremental to the IEPR.

4.3.1. DER Disaggregation

This section describes the data sources and methodology used to disaggregate the most recent CEC IEPR DER system level forecasts to individual circuits. Details are provided for the following six DER types: EE, TE, PV, ES, LMDR, and TOU. To distribute total forecasts for each DER to the hourly level, SCE applies the CEC IEPR 8760 load shapes for EE, ES and TOU, and uses customized, internally developed load shapes for TE, PV, and LMDR.

The subsections below describe in detail how each DER forecast is disaggregated from the IEPR system level to the circuit level, and how hourly load reduction is calculated. An overview is provided in Figure 4, and followed by separate discussions on each DER type. An illustrative example of SCE's disaggregation process is provided at the end of each DER discussion. The "Final Circuit Forecast" noted in the Figure 4 is an output of the DER Disaggregation Process, but also an input to the final growth recognized within the forecast.

FIGURE 4: SCE'S OVERALL DER DISAGGREGATION PROCESS



4.3.1.1. Energy Efficiency

This section describes how SCE disaggregates the CEC's 2020 IEPR system Additional Achievable Energy Efficiency (AAEE) forecast to individual circuits. In September 2021, work commenced updating 2022 DPP. SCE utilized the 2020 AAEE forecast as the updated 2021 IEPR would not be released until early 2022.

To ensure consistency with transmission planning activities/California Independent System Operator (CAISO), SCE used AAEE Mid-Low scenario 2 and the CEC-supplied 2020 AAEE information by Sector. SCE then leveraged SCE's customer/circuit information that denoted sector level energy use for each circuit.

Lastly, there is a need to denote hourly AAEE savings for each circuit. To accomplish this, SCE used the CEC's EE hourly load shape²⁴ to further disaggregate AAEE circuit level saving into hourly EE savings.

4.3.1.1.1. METHODOLOGY TO DISAGGREGATE CEC'S AAEE IEPR SYSTEM LEVEL FORECAST TO SCE'S CIRCUIT LEVEL

Disaggregation of IEPR's system level AAEE forecast uses proportional scaling models that assume EE adoption follows energy use. The CEC's Mid-Low AAEE scenario contains 2 main sources of savings:

²⁴ California Energy Commission, (available at: <https://efiling.energy.ca.gov/GetDocument.aspx?tn=231566&DocumentContentId=63381>)

1. EE Programs (EE): A voluntary program that the CPUC works with the IOUs, other program administrators, and vendors to develop programs and measures to transform technology markets within California using ratepayer funds.
2. Title 24 Codes and Standards (T-24): Mandatory California New Construction regulations are designed to reduce wasteful and unnecessary energy consumption in newly constructed and existing buildings.

SCE's detailed disaggregation steps are described below:

1. Step 1 - Collect SCE Energy Use Data: The first step extracts customer circuit level total annual energy (GWh) using customer-level data from SCE's Customer Database. SCE then groups circuit-level energy use into sectors and calculates a percentage of total annual sector energy use for each circuit.
2. Step 2 - CEC AAEE forecasts: SCE receives the Mid-Low scenario (in GWh) AAEE forecast from the CEC forecasters that denotes AAEE savings by sector for the following programs:
 - a. EE programs
 - b. T-20 C&S
 - c. T-24 C&S
3. Step 3 - Disaggregation of EE and T-24 Savings: This step builds on Step 1 and 2 by using the percent sectoral energy use on each circuit and multiplying the sectoral percentages by the IEPR forecasted AAEE EE/T-24 sectoral savings.

4.3.1.1.2. METHODOLOGY TO ESTIMATE CIRCUIT LEVEL 8760 HOURLY FORECAST

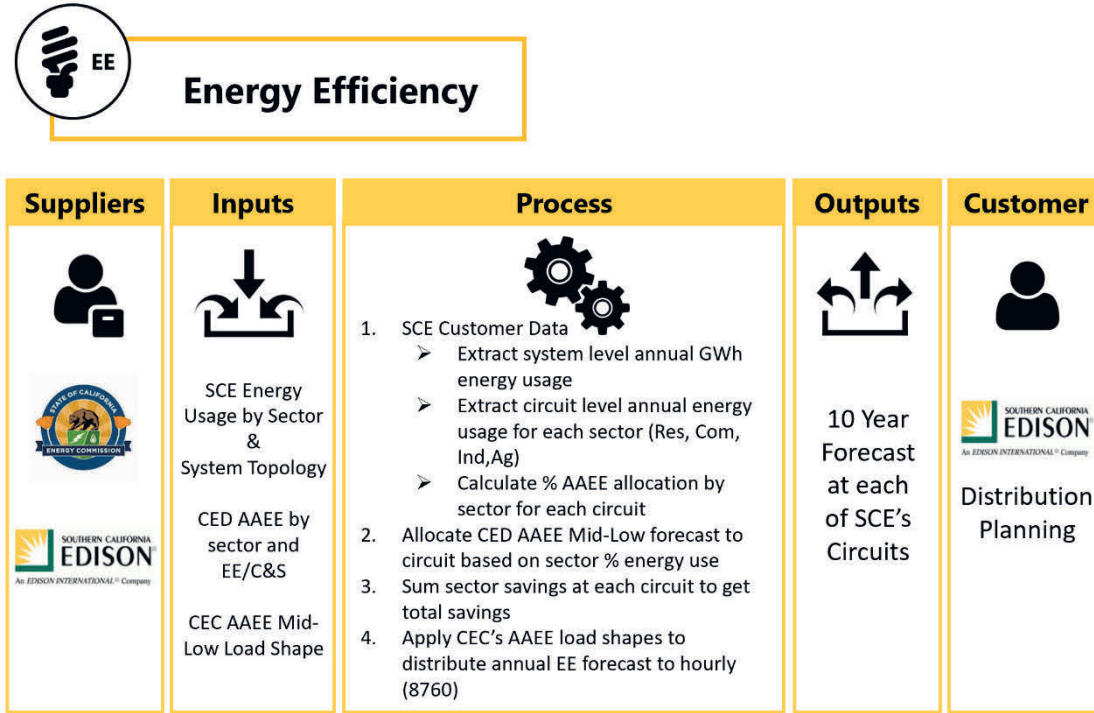
Using the CEC supplied 2019 IEPR AAEE Mid-Low system level 8760 load shapes, SCE unitized the annual hourly load shapes (MW) into hourly percentages where annual EE savings percentage equal 100% for each year of the forecast. SCE then multiplied the unitized hourly percentages by the total CEC supplied AAEE forecast. The aforementioned unitization of hourly load shapes allowed SCE to distribute total SCE service territory EE savings to hourly increments.

4.3.1.1.3. AN ILLUSTRATIVE EXAMPLE

In this example, Circuit X's residential customers consume a total of 16 GWh of electricity, and SCE's total residential energy use is 279,000 GWh of electricity. To calculate a disaggregation factor, Circuit X's residential energy use is divided by total residential energy used, to calculate a disaggregation factor of 0.0057% ($16 \text{ GWh} / 279,000 \text{ GWh} \times 100 = 0.0057\%$). This residential example is completed for all sectors/circuits in the system for which EE is disaggregated.

Circuit X is assumed to contain only residential customers. In this example, SCE determined that there is a total of 95 GWh of residential AAEE and T-24 savings captured in its service territory. In Step 3, SCE multiplies the circuit percentage of total residential energy use from Step 1 (0.0057%) by the total Residential AAEE EE/T-24 savings forecast (Step 2). Circuit X's EE and T-24 savings are 5.4 MWh ($0.0057\% \times 95 \text{ GWh} = 5.4 \text{ MWh}$) in residential EE savings. Figure 5 below displays the data sources, inputs, process, and outputs of SCE's EE disaggregation process.

FIGURE 5: ENERGY EFFICIENCY FLOWCHART



IEPR 2019 Data Source – CEC Slicer

4.3.1.2. Transportation Electrification

For the 2022 Planning Process, SCE disaggregated the forecast for both light duty and non-light duty electric vehicles. Non-light duty electric vehicles include medium & heavy-duty Trucks, Buses, Forklifts and Transport Refrigeration Units (TRUs).

4.3.1.2.1. ELECTRIC VEHICLES (LIGHT DUTY)

SCE leveraged different data sources for disaggregating the system-level light duty EV forecast from CEC's 2020 IEPR demand forecast. SCE gathered actual adoption data as well as macroeconomic and demographic information. The primary data sources include:

1. EV adoption data at ZIP Code level provided by Electric Power Research Institute (EPRI);²⁵
2. Household characteristics from the American Community Survey by U.S. Census Bureau at ZIP Code level;²⁶

²⁵ Electric Power Research Institute, *EV Adoption Data*, June 2021 (available via subscription).

²⁶ American Community Survey, *Household Demographic and Socioeconomic Data at ZIP Code level*, 2019 (available at <https://data.census.gov/cedsci/>).

3. Median household income growth forecast by IHS Markit and Moody's Analytics;²⁷
4. A mapping of ZIP Codes to circuits created by SCE's Geospatial Analysis team; and
5. SCE's internally developed EV load shape

SCE's internal light-duty EV load shape was developed to determine the hourly energy forecast. Major assumptions include where EV owners typically charge, when EV owners start to charge, the duration of charging time, and the residential rate classes to which EV owners belong.²⁸

4.3.1.2.1.1. METHODOLOGY TO DISAGGREGATE CEC'S EV IEPR SYSTEM LEVEL FORECAST TO SCE'S CIRCUIT LEVEL

SCE disaggregated the annual CEC 2020 IEPR forecast based on its internally developed propensity models. Below are the main steps SCE developed for disaggregating the IEPR system level EV forecast:

1. Step 1 - Developed a propensity score for each ZIP Code: SCE identified the key indicator(s) of EV adoption through this step. By using the historical EV adoption data provided by EPRI and customers' demographic and socio - economic data, SCE performed regression analysis to analyze the driving factors for customers' EV adoption. Based on the regression analysis results, household income (income over \$150,000) was shown to be statistically significant and was chosen to be the propensity indicator. Then, EV potential for each ZIP Code was estimated based on the number of households with incomes over \$150,000 and used to derive the propensity score. In addition, SCE utilized the median household income growth forecast (from IHS Markit and Moody's Analytics) to reflect the EV adoption growth rate changes over years.
2. Step 2 - Obtained CEC IEPR EV Forecast: For the 2022 planning process, SCE was directed to utilize the 2020 IEPR California Energy Demand Update (CEDU) High Demand Baseline forecast of EV.²⁹
3. Step 3 - Allocated 2020 CEC IEPR forecast to ZIP Code: Based on relative propensity scores for all the ZIP Codes within SCE's service territory from Step 1.
4. Step 4 - Mapped ZIP Code to circuits based on circuit mileage within a ZIP Code.
5. Step 5 - Applied circuits' shares of a ZIP Code derived from Step 4 to the ZIP Code level EV forecast (from Step 3). This resulted in the final disaggregated circuit level EV forecast.

²⁷ IHS Markit and Moody's Analytics, *Median Household Income Growth Forecast at County Level*, September 2021 (available via subscription at <https://www.moodyanalytics.com/> and <https://ihsmarkit.com/index.html>).

²⁸ Examples of residential rates include time of use, domestic and EV1, etc.

²⁹ IOUs received approval from Energy Division to use the "High TE" scenario for both Light Duty Vehicle (LDV) and Non-LDV Transportation Electrification load forecasts for 2021-2022 planning cycle (see **Attachment B** for Joint IOU request regarding use of the High TE scenarios and July 28, 2021 Energy Division email providing approval, entitled "(External):IEPR Scenario Approval for 2022 GNA/DDOR prep (R.21-06-017, R.14-08-013)"). SCE obtained the IEPR Light duty electric vehicle load forecast from the CEC forecasting staff.

4.3.1.2.1.2. METHODOLOGY TO ESTIMATE CIRCUIT LEVEL 8760 HOURLY FORECAST

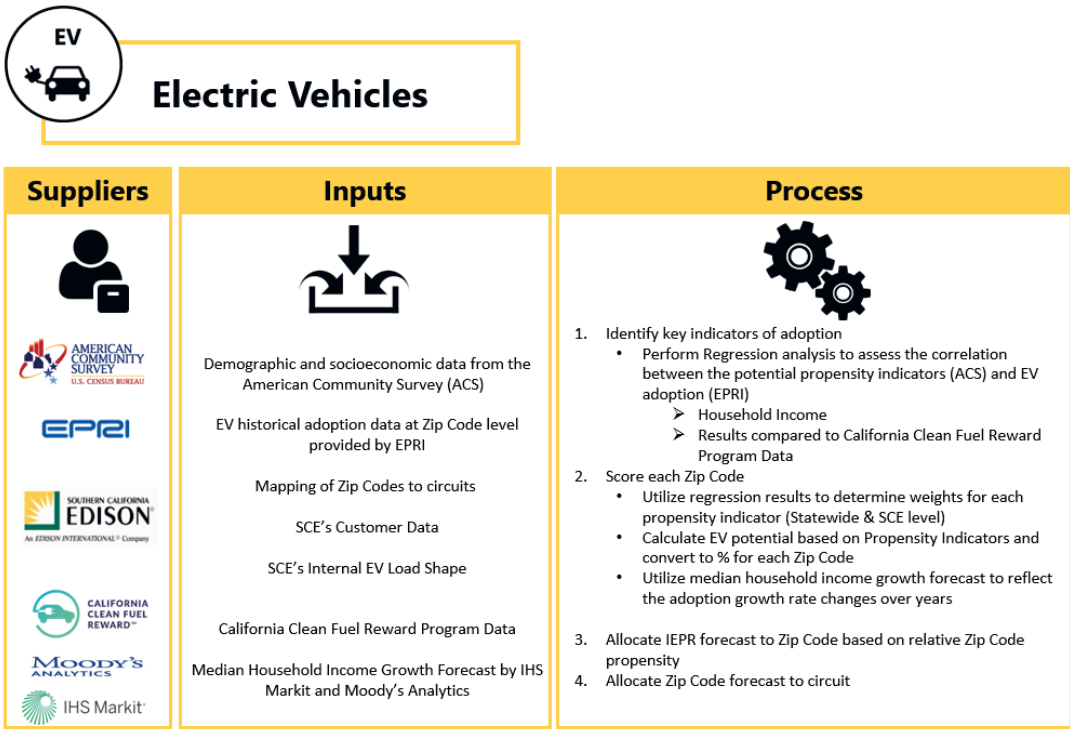
In order to estimate the circuit level hourly EV forecast, SCE multiplied its internal level EV load shape by annual EV forecast at the circuit level.

4.3.1.2.1.3. AN ILLUSTRATIVE EXAMPLE

In this example to determine EV potential in a certain area, ZIP Code A is assumed to have around 3,600 households that have annual incomes over \$150,000. In 2021, the total number of households with income over \$150,000 in SCE’s territory is 600,000. The propensity score of ZIP Code A can be calculated by dividing the number of households with income over \$150,000 in ZIP Code A by the total number households with income over \$150,000 in SCE’s service territory ($3,600 / 600,000 = 0.006$). Therefore, ZIP Code A’s share of total EV forecast is 0.6% ($0.006 \times 100 = 0.6\%$).

If the CEC incremental EV load forecast for 2022 in SCE’s territory is 201,019 MWh, then the EV load forecast for ZIP Code A is 1,206 MWh ($0.006 \times 201,019 \text{ MWh} = 1,206 \text{ MWh}$). If Circuit B is inside ZIP Code A and covers 10 percent of the total circuit length in ZIP Code A, Circuit B’s EV load is assumed to be 120.6 MWh ($1,206 \text{ MWh} \times 0.1 = 120.6 \text{ MWh}$). Figure 6 below displays the data sources, inputs, process, and outputs of SCE’s EV disaggregation process.

FIGURE 6: ELECTRIC VEHICLE FLOWCHART



4.3.1.2.2. MEDIUM AND HEAVY-DUTY (NON-LIGHT DUTY)

SCE leveraged different data sources for disaggregating the system-level medium & heavy-duty trucks forecast from CEC’s 2020 IEPR demand forecast. The primary data sources include:

1. Mapping of North American Industry Classification System (NAICS) to potential medium & heavy-duty vehicle classification which is developed internally at SCE
2. SCE's customer service data;
3. San Pedro Bay Ports Clean Truck program data³⁰;
4. SCE's Charge Ready Transport program data;
5. Truck registration data provided by IHS Markit³¹; and
6. SCE's internally developed medium & heavy-duty truck load shape

SCE's internal medium & heavy-duty truck load shapes are applied to determine the hourly energy forecast. Major assumptions include where medium & heavy-duty truck owners typically charge, when charging starts, the duration of charging time, and the non-residential time-of-use rates applicable to medium & heavy-duty truck owners.³²

4.3.1.2.2.1. METHODOLOGY TO DISAGGREGATE CEC'S MEDIUM & HEAVY-DUTY TRUCK IEPR SYSTEM LEVEL FORECAST TO SCE'S CIRCUIT LEVEL

SCE disaggregated the annual CEC 2020 IEPR forecast based on its internally developed propensity models. Below are the main steps SCE developed for disaggregating IEPR's system level medium & heavy-duty truck forecast:

1. Step 1 - Developed a propensity score for each circuit:

For medium duty vehicles, SCE utilized the list of SCE's non-residential service accounts and identified the associated potential vehicle classifications by their NAICS code using a mapping tool developed internally at SCE. The propensity score of each circuit was calculated by estimating each potential customer's annual peak demand, aggregating it to the circuit level, and then converting those circuit-level values to percentages of the SCE total system value.

For heavy duty vehicles, SCE utilized the list of San Pedro Bay Ports Clean Truck program data which has the list of trucking companies' location who have access to Port of Long Beach. SCE mapped the locations to SCE's circuits. The propensity score of each circuit was calculated by using the # of fleet truck moves to Port of Long Beach, aggregating it to the circuit level, and then converting those circuit-level values to percentages of the SCE total system value.

In addition, SCE utilized limited data from SCE's Charge Transport Program and IHS to validate the relative scores across circuits.

³⁰ Drayage operators registered in the San Pedro Bay Ports Clean Truck program: (*available at:* <https://thehelm.polb.com/download/369/clean-trucks-program-reports/11231/polb-status-update-12-01-2020.xlsx>)

³¹ IHS Markit, *Class 1-8 truck data, 2020* (*available via purchase*).

³² Benchmarked with ICF's most recent study: *Comparison of Medium- and Heavy-Duty Technologies in California*, Part 2 Appendix B p.49, December 2019, (*available at:* https://caletc.com/assets/files/ICF-Truck-Report_Final_December-2019.pdf).

2. Step 2 - Obtained CEC IEPR medium & heavy-duty trucks truck forecast: For the 2022 planning process, SCE was directed to utilize the 2020 IEPR CEDU High Demand Baseline forecast of medium & heavy-duty trucks.³³
3. Step 3 - Allocated 2020 CEC IEPR forecast to circuit: based on relative propensity scores for all the circuits within SCE's service territory from Step 1. This resulted in the final disaggregated circuit level medium & heavy-duty forecast.

4.3.1.2.2. METHODOLOGY TO ESTIMATE CIRCUIT LEVEL 8760 HOURLY FORECAST

To estimate the circuit level hourly medium & heavy-duty truck forecast, SCE multiplied its internally developed medium & heavy-duty truck load shapes by annual medium & heavy-duty truck forecast at the circuit level.

4.3.1.2.2.3. AN ILLUSTRATIVE EXAMPLE

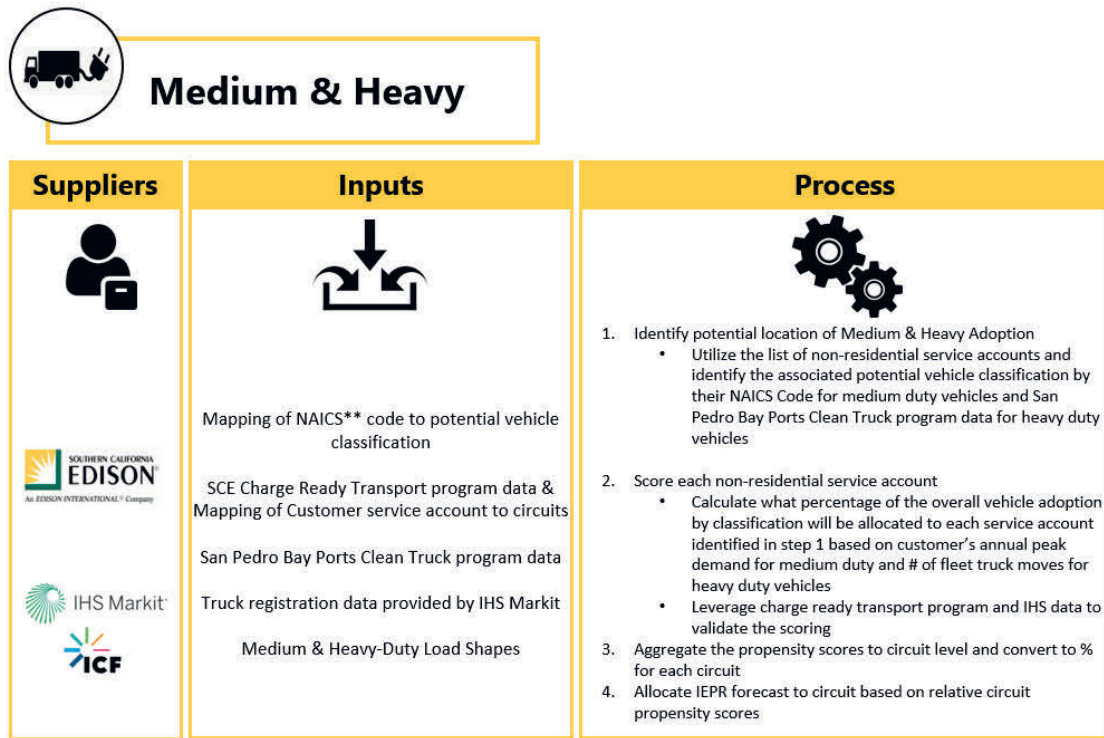
In this example to determine medium-duty truck potential for a circuit, non-residential customers A and B are both identified as potential medium-duty truck adopters based on their NAICS code, both are fed from Circuit C, and their annual peak demands are 200 kW and 300 kW respectively. Based on SCE's customer service data, the total annual peak demand for all non-residential service accounts identified as potential medium-duty truck adopters is 500,000 kW. The propensity score of Circuit C is calculated by dividing the total annual peak demand of all potential non-residential adopters for medium-duty trucks on Circuit C by that in SCE's territory $((200 \text{ kW} + 300 \text{ kW}) / 500,000 \text{ kW} = 0.001)$. Therefore, Circuit C's share of the medium-duty truck forecast is 0.1% $(0.001 \times 100 = 0.1\%)$.

If the CEC incremental medium duty truck load forecast for 2022 in SCE's territory is 4,000 MWh, then the incremental medium-duty truck load forecast for Circuit C is 4 MWh $(0.001 \times 4,000 \text{ MWh} = 4 \text{ MWh})$.

For Heavy-duty vehicles, the same process is applied except beside the annual peak demand, the # of fleet truck moves to Port of Long Beach was used and then both are aggregated together. Figure 7 below displays the data sources, inputs, process, and outputs of SCE's Medium and Heavy-Duty disaggregation process.

³³ IOUs received approval from Energy Division to use the "High TE" scenario for both Light Duty Vehicle (LDV) and Non-LDV Transportation Electrification load forecasts for 2021-2022 planning cycle (see **Attachment B** for Joint IOU request regarding use of the High TE scenarios and July 28, 2021 Energy Division email providing approval, entitled "(External):IEPR Scenario Approval for 2022 GNA/DDOR prep (R.21-06-017, R.14-08-013))." SCE obtained the IEPR Medium & heavy-duty truck load forecast from CEC staff.

FIGURE 7: MEDIUM & HEAVY-DUTY FLOWCHART



*North American Industry Classification System

4.3.1.2.3. BUS (NON-LIGHT DUTY)

SCE leveraged different data sources for disaggregating the system-level electric bus forecast from CEC's 2020 IEPR demand forecast. The primary data sources include:

1. SCE's customer service data;
2. Federal Transit Administration (FTA)'s National Transit Database (NTD)³⁴;
3. California Air Resources Board's (CARB) Innovative Clean Transit (ICT) plans;
4. SCE's Charge Ready Transport program data; and
5. SCE's internally developed electric bus load shape

³⁴ FTA's NTD, (available at: <https://www.transit.dot.gov/ntd>).

SCE's internal electric bus load shape is developed to determine the hourly energy forecast. Major assumptions include where electric bus owners typically charge, when electric bus owners start to charge, the duration of charging time, and the non-residential time-of-use rates applicable to electric bus owners.³⁵

4.3.1.2.3.1. METHODOLOGY TO DISAGGREGATE CEC'S ELECTRIC BUS IEPR SYSTEM LEVEL FORECAST TO SCE'S CIRCUIT LEVEL

SCE disaggregated the CEC 2020 IEPR forecast based on its internally developed propensity models. Below are the main steps SCE developed for disaggregating IEPR's system-level electric bus forecast:

1. Step 1 - SCE mapped the list of each transit agency's fueling facility from FTA's NTD and CARB's Innovative Clean Transit (ICT) plans to SCE's non-residential service accounts and identified the non-residential service accounts who have the potential to adopt electric bus. The propensity score of each customer was calculated by determining each potential customer's current number of buses, aggregating them to the circuit level, and then converting those circuit-level values to percentages of the total SCE system value. In addition, SCE leveraged the limited data from SCE's Charge Transport Program to help validate the relative scoring across circuits.
2. Step 2 - Obtained CEC IEPR electric bus forecast: For the 2022 planning process, SCE was directed to utilize the 2020 IEPR CEDU High Demand Baseline forecast of electric bus.³⁶
3. Step 3 - Allocated 2020 CEC IEPR forecast to circuit: Based on relative propensity scores for all the circuits within SCE's service territory from Step 1.

4.3.1.2.3.2. METHODOLOGY TO ESTIMATE CIRCUIT LEVEL 8760 HOURLY FORECAST

To estimate the circuit-level hourly electric bus forecast, SCE multiplied its internal electric bus load shape by annual electric bus forecast at the circuit level.

4.3.1.2.3.3. AN ILLUSTRATIVE EXAMPLE

In this example to determine the electric bus potential for a circuit, transit agency A is assumed to have 100 buses and its fueling facility from FTA's NTD (which is mapped by SCE's customer service) is located on circuit B. Based on FTA's NTD, the total number of buses in SCE's service territory is 10,000. The propensity score of circuit B is calculated by dividing the number of buses whose agencies' fueling facilities are on circuit B by the total number of

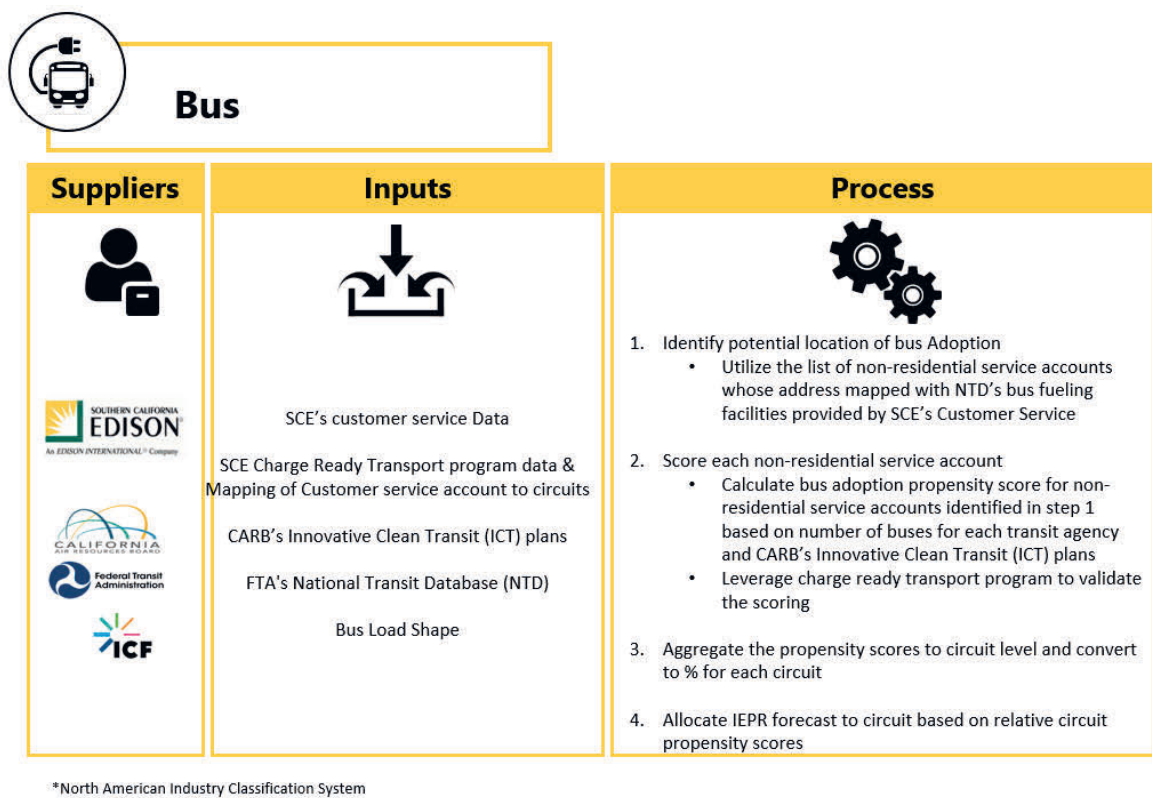
³⁵ Benchmarked with ICF's most recent study: *Comparison of Medium- and Heavy-Duty Technologies in California*, Part 2 Appendix B p.49, December 2019, (available at: https://caletc.com/assets/files/ICF-Truck-Report_Final_December-2019.pdf).

³⁶ IOUs received approval from Energy Division to use the "High TE" scenario for both Light Duty Vehicle (LDV) and Non-LDV Transportation Electrification load forecasts for 2021-2022 planning cycle (see **Attachment B** for Joint IOU request regarding use of the High TE scenarios and July 28, 2021 Energy Division email providing approval, entitled "(External):IEPR Scenario Approval for 2022 GNA/DDOR prep (R.21-06-017, R.14-08-013))." SCE obtained the IEPR Electric bus load forecast from CEC staff.

buses in SCE’s service territory ($100 / 10,000 = 0.01$). Therefore, circuit B’s share of the total electric bus forecast is 1% ($0.01 \times 100 = 1\%$).

If the CEC incremental electric bus load forecast for 2022 in SCE’s territory is 4,000 MWh, then the incremental electric bus load forecast for circuit B is 40 MWh ($0.01 \times 4,000 \text{ MWh} = 40 \text{ MWh}$). Figure 8 below displays the data sources, inputs, process, and outputs of SCE’s Electric Bus disaggregation process.

FIGURE 8: BUS FLOWCHART



4.3.1.2.4. FORKLIFT (NON-LIGHT DUTY)

SCE leveraged different data sources for disaggregating the system-level electric forklift forecast from CEC’s 2020 IEPR demand forecast. The primary data sources include:

1. SCE’s customer service data; and
2. SCE’s internally developed electric forklift load shape

SCE’s internal electric forklift load shape is based on an assessment of California Transportation Electrification Assessment’s (TEA study) phase 3-part A report³⁷ to determine hourly energy forecast. Major assumptions include

³⁷ ICF International and Energy + Environmental Economics, *California Transportation Electrification Assessment Phase 3-Part A Commercial and Non-Road Grid Impacts-Final Report*, p.18-19, January 2016.

where electric forklift owners typically charge, when electric forklift owners start to charge, the duration of charging time, and the non-residential time-of-use rates applicable to electric forklift owners.

4.3.1.2.4.1. METHODOLOGY TO DISAGGREGATE CEC'S ELECTRIC FORKLIFT IEPR SYSTEM LEVEL FORECAST TO SCE'S CIRCUIT LEVEL

SCE disaggregated the annual CEC 2020 IEPR forecast based on its internally developed propensity models. Below are the main steps SCE developed for disaggregating IEPR's system level electric forklift forecast:

1. Step 1 - Developed a propensity score for each circuit: SCE estimated the electric forklift potential by using the list of non-residential service accounts in SCE's service territory whose building type is warehouse (nonrefrigerated). The propensity score of each circuit was calculated by taking each potential electric forklift customer's annual peak demand, aggregating those values to the circuit level, and then converting those circuit-level values to percentages of the SCE total system value.
2. Step 2 - Obtained the CEC IEPR electric forklift forecast: For the 2022 Planning Process, SCE was directed to utilize the 2020 IEPR CEDU High Demand Baseline forecast of electric forklift.³⁸
3. Step 3 - Allocated 2020 CEC IEPR forecast to circuit: Based on relative propensity scores for all the circuits within SCE's service territory from Step 1. This resulted in the final disaggregated circuit-level electric forklift forecast.

4.3.1.2.4.2. METHODOLOGY TO ESTIMATE CIRCUIT LEVEL 8760 HOURLY FORECAST

To estimate the circuit-level hourly electric forklift forecast, SCE multiplied its internal electric forklift load shape by the annual electric forklift forecast at the circuit level.

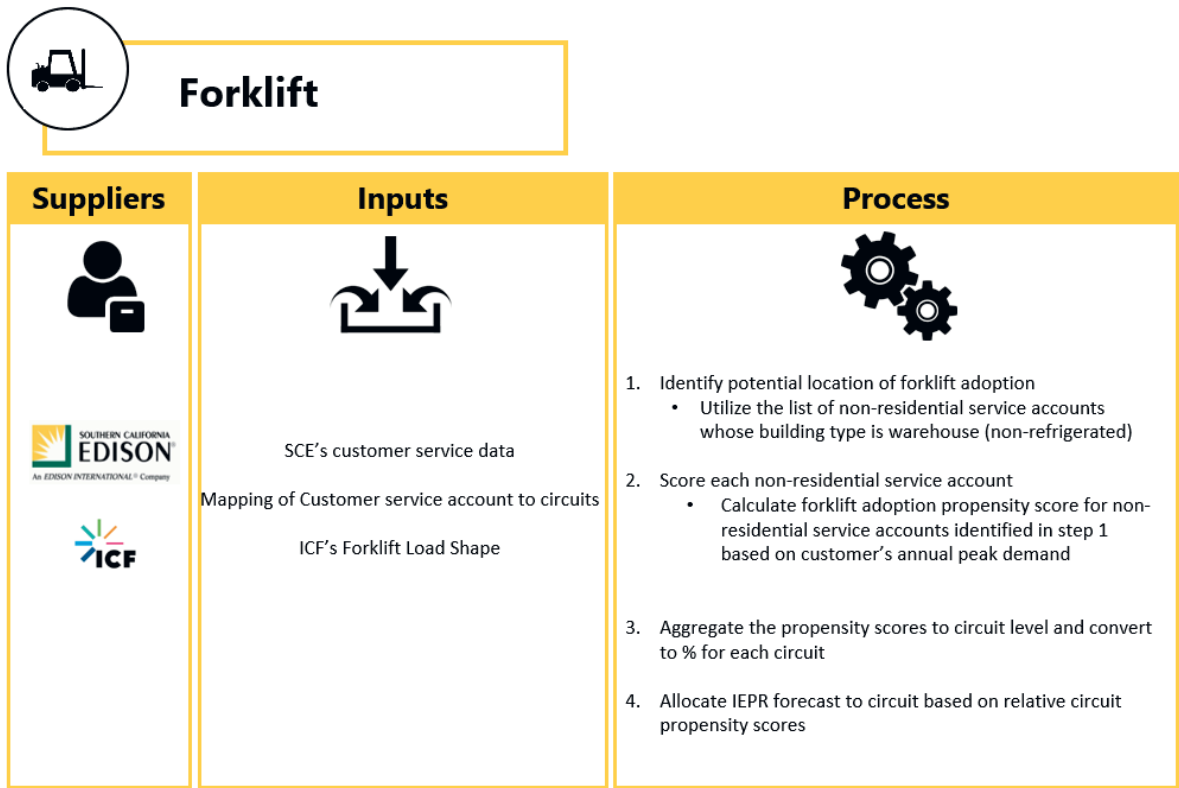
4.3.1.2.4.3. AN ILLUSTRATIVE EXAMPLE

In this example, to determine electric forklift potential for a circuit, non-residential customers A and B are both potential electric forklift adopters since their building types are warehouse (nonrefrigerated), they are both located on circuit C, and their annual peak demand values are 100 kW and 200 kW respectively. Based on SCE's customer service data, the total annual peak demand for all non-residential service accounts whose building type is warehouse (nonrefrigerated) is 300,000 kW. The propensity score of circuit C can be calculated by dividing the total annual peak demand of all non-residential customers whose building type is warehouse (nonrefrigerated) on circuit C by that in SCE's service territory $((100 \text{ kW} + 200 \text{ kW}) / 300,000 \text{ kW} = 0.001)$. Therefore, circuit C's share of total electric forklift forecast is 0.1% (0.001×100) .

³⁸ Based on IOUs letter submitted to Energy Division to seek approval to use the "High TE" scenario for both Light Duty Vehicle (LDV) and Non-LDV Transportation Electrification for 2022 planning process on July 1st, 2021 (see **Attachment B** for Joint IOU request regarding use of the High TE scenarios and July 28, 2021 Energy Division email providing approval, entitled "(External):IEPR Scenario Approval for 2022 GNA/DDOR prep (R.21-06-017, R.14-08-013))." CEC IEPR Electric forklift load forecast received from CEC staff.

If the CEC incremental forklift load forecast for 2022 in SCE’s service territory is 4,000 MWh, then the incremental electric forklift load forecast for circuit C is 4 MWh ($0.001 \times 4,000 \text{ MWh} = 4 \text{ MWh}$). Figure 9 below displays the data sources, inputs, process, and outputs of SCE’s Electric Forklift disaggregation process.

FIGURE 9: FORKLIFT FLOWCHART



4.3.1.2.5. TRANSPORT REFRIGERATION UNIT (NON-LIGHT DUTY)

SCE leveraged different data sources for disaggregating the system-level TRU forecast from CEC’s 2020 IEPR demand forecast. The primary data sources include:

- SCE’s customer service data;
- CARB’s list of facilities that are potential for TRUs;³⁹ and
- ICF’s TRU load shape⁴⁰

³⁹ Received from CARB Staff.

⁴⁰ ICF International and Energy + Environmental Economics, *California Transportation Electrification Assessment Phase 3-Part A Commercial and Non-Road Grid Impacts-Final Report*, p.19-20, January 2016.

ICF's electric TRU load shapes are applied to determine the hourly energy forecast. Major assumptions include where TRU owners typically charge, when charging starts, the duration of charging time.

4.3.1.2.5.1. METHODOLOGY TO DISAGGREGATE CEC'S TRU IEPR SYSTEM LEVEL FORECAST TO SCE'S CIRCUIT LEVEL

SCE disaggregated the CEC 2020 IEPR forecast based on its internally developed propensity models. Below are the main steps SCE developed for disaggregating IEPR's system level electric TRUs forecast:

1. Step 1 - SCE mapped CARB's list of facilities that have the potential for TRU to SCE's non-residential service accounts and identified the non-residential service accounts with potential to adopt electric TRUs. The propensity score of each circuit was calculated by determining each potential customer's number of dock doors, aggregating them to the circuit level, and then converting those circuit-level values to percentages of the SCE system forecast total.
2. Step 2 - Obtained CEC IEPR electric TRU forecast: For the 2022 planning process, SCE was directed to utilize the 2020 IEPR CEDU High Demand Baseline forecast of electric TRU.⁴¹
3. Step 3 - Allocated 2020 CEC IEPR forecast to circuit: Based on relative propensity scores for all the circuits within SCE's service territory from Step 1.

4.3.1.2.5.2. METHODOLOGY TO ESTIMATE CIRCUIT LEVEL 8760 HOURLY FORECAST

To estimate the circuit level hourly electric TRU forecast, SCE multiplied ICF's electric TRU load shape by annual electric TRU forecast at the circuit level.

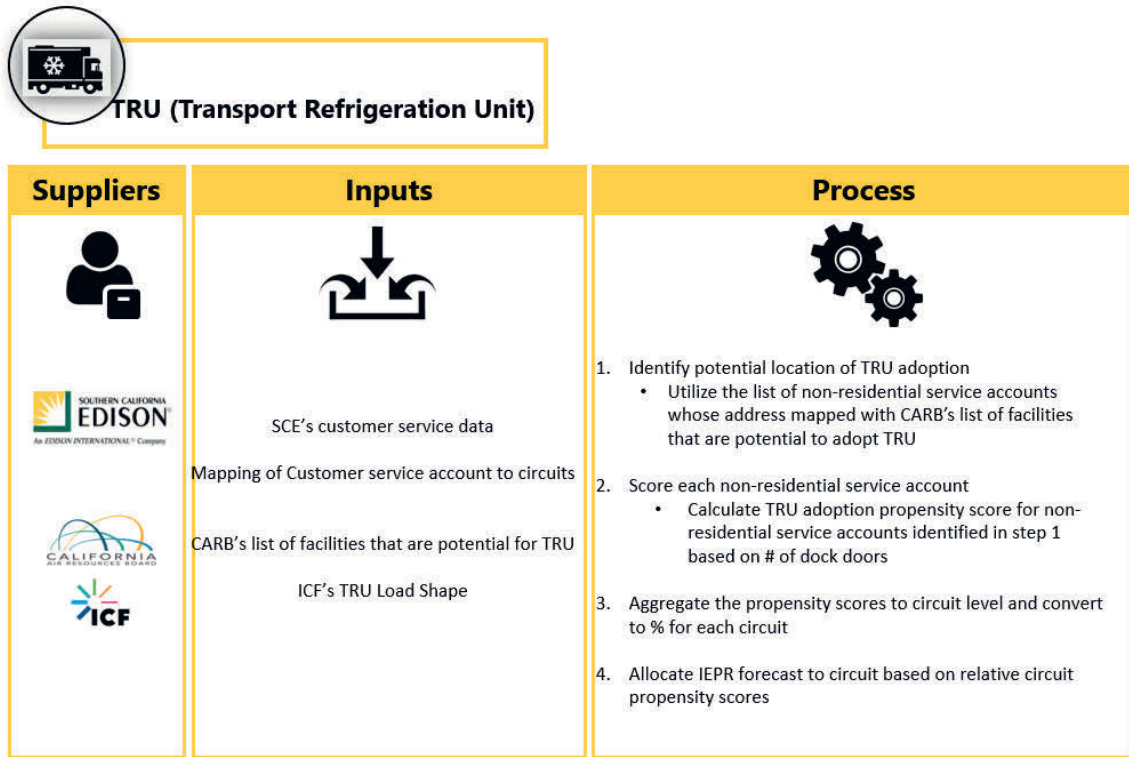
4.3.1.2.5.3. AN ILLUSTRATIVE EXAMPLE

In this example to determine the electric TRU potential for a circuit, non-residential customers A and B are both in CARB's list of facilities with electric TRU potential, they are both located on Circuit C, and their number of dock doors are 4 and 6 respectively. Based on CARB's list of facilities that with electric TRU potential, the total number of docks doors for all facilities in SCE's service territory are 10,000. The propensity score of circuit C is calculated by dividing the total number of docks doors for all potential facilities in circuit C by the total number of docks doors in SCE's territory $((4+6) / 10,000 = 0.001)$. Therefore, Circuit C's share of the total electric TRU forecast is 0.1% (0.001×100) .

If the CEC incremental TRU load forecast for 2022 in SCE's territory is 4,000 MWh, then the incremental electric TRU load forecast for circuit C is 4 MWh $(0.001 \times 4,000 \text{ MWh} = 4 \text{ MWh})$. Figure 10 below displays the data sources, inputs, process, and outputs of SCE's transport refrigeration unit disaggregation process.

⁴¹ Based on IOUs letter submitted to Energy Division to seek approval to use the "High TE" scenario for both Light Duty Vehicle (LDV) and Non-LDV Transportation Electrification for 2022 planning process on July 1st, 2021 (see **Attachment B** for Joint IOU request regarding use of the High TE scenarios and July 28, 2021 Energy Division email providing approval, entitled "(External):IEPR Scenario Approval for 2022 GNA/DDOR prep (R.21-06-017, R.14-08-013))." CEC IEPR TRU load forecast received from CEC staff.

FIGURE 10: TRU FLOWCHART



4.3.1.3. Solar Photovoltaics (Residential and Non-Residential)

SCE leveraged different data sources for disaggregating the system-level Solar PV forecast from CEC's 2020 IEPR demand forecast. The primary data sources include:

1. Forecast Zone⁴² of SCE's service territory and Forecast Zone to ZIP Code relationship⁴³ provided by CEC;
2. A mapping of ZIP Codes to circuit relationship⁴⁴;
3. SCE's internally developed Zip Code level market potential⁴⁵;

⁴² California Energy Commission, *Climate Zone Areas*, 2018 (available at <https://efiling.energy.ca.gov/getdocument.aspx?tn=223244>).

⁴³ California Energy Commission, *Forecast Climate Zone to ZIP Code Relationship*, 2018 (available internally as an Excel sheet provided via email from CEC "Zipcode Forecast Zone-no duplicates.xlsx").

⁴⁴ SCE Geographic Information Systems Team, *ZIP Code to Circuit Relationship*, September, 2021 (available internally as an Excel sheet "ZIP_CIRCUIT_20210921.xlsx").

⁴⁵ SCE calculates each ZIP Code market potential based on data from National Renewable Energy Lab. Mooney, Meghan and Sigrin, Ben, "Rooftop Energy Potential of Low Income Communities in America REPLICA," 2018 (available at <https://data.nrel.gov/submissions/81>).

4. Housing starts within SCE's service territory from Moody's Analytics;
5. Permit data within SCE's service territory from Construction Industry Research Board (CIRB);
6. Circuit length information provided by SCE's Geospatial Analysis team;
7. Zip Code to circuit mapping based on customer-level propensity model;
8. SCE's service territory non-residential energy consumption values for circuits

4.3.1.3.1. METHODOLOGY TO DISAGGREGATE CEC'S PV SYSTEM LEVEL FORECAST TO SCE'S CIRCUIT LEVEL

Circuit Level Residential Single Family (SF) New Construction Disaggregation Methodology:

This section applies to residential SF new construction-related Solar PV installations forecast starting in 2021 (in anticipation of Title 24 compliance impact). This forecast⁴⁶ is a subset of the total residential forecast, and was provided by the CEC separately, since beginning with the 2020 IEPR forecast, additional achievable solar PV (AAPV) was incorporated into the base solar PV forecast. This forecast is subtracted from the residential forecast and disaggregated separately.

1. Step 1: Use Moody Analytics' data to generate SCE's service territory total housing starts by applying calculated historical SCE's service territory percentage from CIRB permits data.
2. Step 2: Calculate circuit share for each county using circuit length from internal GIS data.
3. Step 3: Generate circuit-level residential new construction numbers by applying the share distribution (from Step 2).
4. Step 4: Generate circuit-level share of new construction in SCE's service territory.
5. Step 5: Allocate 2020 IEPR Residential SF new construction MW as derived in Step 4.

Circuit Level Remaining Residential Disaggregation Methodology:

This section applies to the residential forecast, after the residential SF new construction forecast has been subtracted.

1. Step 1: SCE ran the Bass Diffusion Model⁴⁷ for each CEC forecasting zone and obtained the forecasting zone level parameters (B, P, Q, M).⁴⁸

⁴⁶ California Energy Commission, *CEDU 2020: SCE Annual Installed PV Capacity (MW) on New Single Family Homes*, (available as an Excel sheet" SCE Data Request - PV Capacity for SF New Homes (2021-04-08)_2031added.xlsx").

⁴⁷ The Bass Diffusion Model is an S-curve adoption model used to optimize parameters B, P, Q, and M in order to explain monthly PV adoption patterns. These parameters represent key uncertainties in the model.

⁴⁸ B: This parameter is price elasticity and represents the behavior or responsiveness of the demand of PV when nothing but the price of PV changes.

P: This parameter is for innovation and represents the behavior of early adopters for technology as well as advertising effects. The value of this parameter may be modelled in a variety of ways.

2. Step 2: SCE ran the Bass Diffusion Model for each ZIP Code adopting the relative forecasting zone's parameter. SCE also recalculated the market potential for each ZIP Code based on NREL's small building data⁴⁹ and SCE non-care service account data.⁵⁰ The output is the ZIP Code level forecast installation from 2021 to 2031.
3. Step 3: SCE determined the ZIP Code Share of the entire incremental installation then used the ZIP Code-circuit relationship to calculate the share of Circuit X within the ZIP Code Z. Finally, SCE combined the two ratios to get Circuit X's share of the entire SCE service territory.
4. Step 4: SCE applied CEC IEPR 2020 SCE service territory MW incremental forecast⁵¹ to the circuit level by applying the computed share distribution from the previous step.
5. Step 5: Add circuit levels forecasts for residential SF new construction solar PV (described above), and the remaining residential forecast, to get a total residential forecast for each circuit.

Circuit Level Non-Residential Disaggregation Methodology:

1. CEC IEPR 2020 SCE service territory non-residential MW was allocated to all circuits based on the energy use share of each circuit.

4.3.1.3.2. METHODOLOGY TO ESTIMATE CIRCUIT LEVEL 8760 HOURLY FORECAST

SCE utilized an internally generated shape that incorporates dependability.⁵² To estimate the circuit level hourly PV forecast, SCE multiplied its regional dependability shapes by the annual PV forecast at the circuit level.

4.3.1.3.3. AN ILLUSTRATIVE EXAMPLE

Residential SF New Construction Solar PV:

Q: This parameter is for imitation and represents word-of-mouth adoption and the influence of previous adopters. As with the P parameter, this value may be modelled in a variety of ways.

M: This parameter is the market potential for the technology. Market potential captures the impacts of policy, policy changes, economics, tax laws, customer attitudes, and technology evolution. As with the P and Q parameters, there are a variety of ways to model this parameter.

⁴⁹ Mooney, Meghan; Sigrin, Ben (2018): *Rooftop Energy Potential of Low Income Communities in America REPLICA*, National Renewable Energy Laboratory. (available at: <https://data.nrel.gov/submissions/81>)

⁵⁰ SCE Load Research Group, *Non-care Service Account Data*, (available internally as an Excel sheet "Percent_Bills_over_80_by_zipcode_20210901.xlsx").

⁵¹ The IEPR forecast applied was the residential solar PV forecast, with the residential single-family new construction homes forecast first subtracted.

⁵² Dependable PV shapes include adjustments to account for factors including, but not limited to, cloud cover, degradation, etc.

In this illustrative example, Circuit X is forecast to have construction of 13 new residential SF homes in 2022. The total number of SCE new residential SF homes with solar PV forecast in 2022 is 28,248. Therefore, Circuit X's share is 0.046% ($13 / 28,248 \times 100 = 0.046\%$). The 2020 IEPR forecasts SCE to have 116.22 MW of new load associated with new residential SF homes with solar PV, thus, Circuit X in 2022 is assigned 0.053 MW ($116.22 \text{ MW} \times 0.046\% = 0.053 \text{ MW}$) related to residential SF new construction solar PV (i.e. a subset of Residential).

Residential Solar PV:

In this example of SCE's residential Solar PV disaggregation method, Circuit X is in ZIP Code Z, which is in the CEC forecasting zone 7 (FZ7). SCE runs the model to estimate growth rate and price elasticity parameters for FZ7 and generate a yearly adoption forecast for ZIP Code Z (124 adoptions in 2022). SCE then divides ZIP Code Z's adoptions by the entire SCE service territory ZIP Code adoptions (37,998) to arrive at 0.33% ($124 / 37,998 \times 100 = 0.33\%$). Based on the customer-level adoption propensity model, Circuit X's ratio within ZIP Code Z is 8.88%. SCE combines these ratios to get Circuit X's share of the entire SCE service territory: 0.0294% ($0.33\% \times 8.88\% = 0.0294\%$).

The 2020 CEC's Residential PV Forecast⁵³ minus the SF new construction forecast⁵⁴ is 326.16 MW ($442.38 \text{ MW} - 116.22 \text{ MW} = 326.16 \text{ MW}$). SCE then multiplies the CEC forecast by the ratios from Step 3 to get the Circuit X Incremental Forecasts in 2021: 0.0959 MW ($326.16 \text{ MW} \times 0.0294\% = 0.0959 \text{ MW}$). This represents the MW associated with existing homes, which is then added to the Circuit X SF new construction forecast (described above) to get a total residential forecast.

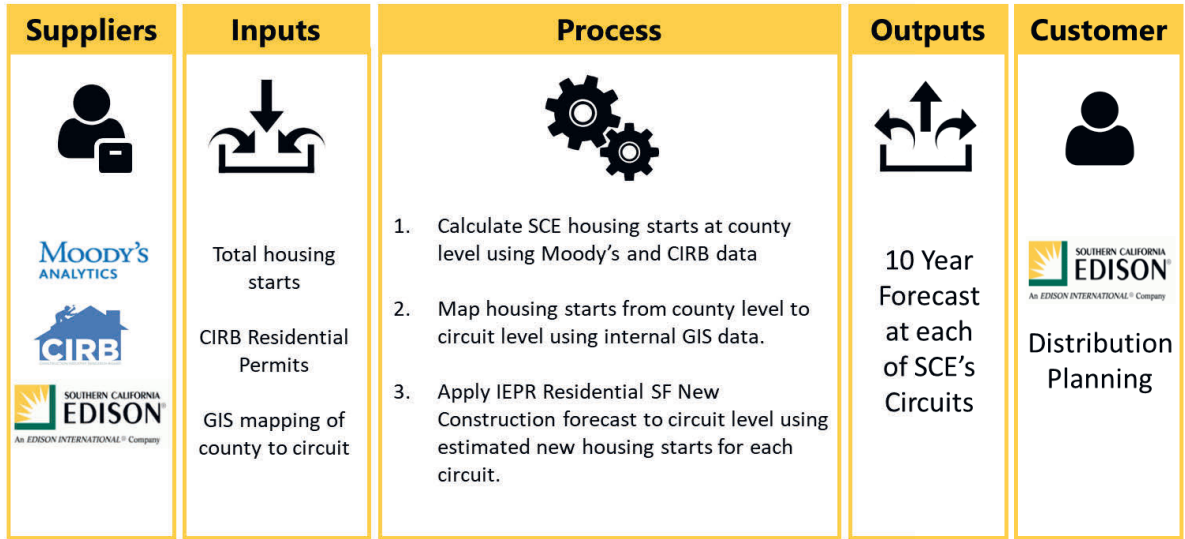
Non-Residential Solar PV:

For non-residential Solar PV disaggregation, Circuit X consumes 5,895,973 kWh energy a year. SCE circuits in total consumed 41,911,744,676 kWh. Therefore, Circuit X's share of the total consumption is 0.01407% ($5,895,973 \text{ kWh} / 41,911,744,676 \text{ kWh} = 0.01407\%$). The 2020 IEPR Non-Residential incremental MW for SCE in 2021 is 112.31 MW. So, Circuit X's share of non-residential PV of 0.0158 MW ($0.01407\% \times 112.31 \text{ MW} = 0.0158 \text{ MW}$). Figure 11 and Figure 12 below display the data sources, inputs, process, and outputs of SCE's single family new construction solar PV and remaining residential and non-residential PV disaggregation process.

⁵³ California Energy Commission, "PV and Storage by Forecasting Zone SCE CEDU 2020," 2020 (available internally as an Excel sheet provided via email from CEC "SCE Data Request - PV and Storage by FZ SCE CEDU 2020 (2021-04-08).xlsx"). SCE aggregates Forecasting Climate Zones 7 to 11.

⁵⁴ California Energy Commission, "CEDU 2020: SCE Annual Installed PV Capacity (MW) on New Single Family Homes," (available as an Excel sheet "SCE Data Request - PV Capacity for SF New Homes (2021-04-08)_2031added.xlsx").

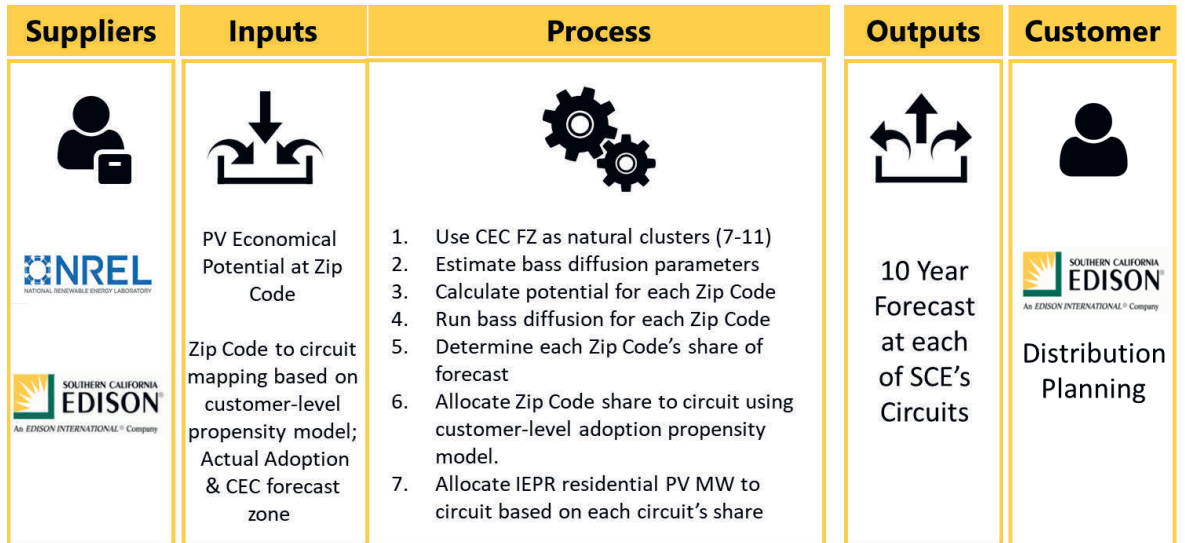
FIGURE 11: RESIDENTIAL SF NEW CONSTRUCTION SOLAR PHOTOVOLTAICS FLOWCHART



CIRB: Construction Industries Research Board

*An AAPV forecast is no longer reported in the 2020 IEPR. A single-family (SF) new construction solar PV forecast provided by the CEC (not available on the CEC's website) was subtracted from the total residential PV forecast, and disaggregated similarly to how AAPV was treated in the past.

FIGURE 12: RESIDENTIAL AND NON-RESIDENTIAL SOLAR PHOTOVOLTAICS FLOWCHART



*Remaining Residential Forecast refers to the residual of the Residential forecast after the SF New Construction forecast has been subtracted

**For Non-Residential PV, SCE allocated the 2020 IEPR non-residential PV forecast based on circuit level non-residential energy usage

4.3.1.4. Energy Storage

SCE leveraged different data sources for disaggregating the energy storage MW forecast from CEC's 2020 IEPR Update demand forecast.⁵⁵ The primary data sources include:

1. Circuit-level residential PV share distribution
2. Self-Generation Incentive Program (SGIP) Equity Resiliency Program Database information
3. Circuit-level peak-to-energy ratios

4.3.1.4.1. METHODOLOGY TO DISAGGREGATE CEC'S ES SYSTEM LEVEL FORECAST TO SCE'S CIRCUIT LEVEL

Circuit Level Residential Disaggregation Methodology:

SCE has observed so far that most residential ES units are paired with PV. SCE employed the circuit-level PV share as the proxy for residential ES distribution. However, a portion of the residential ES forecast was first allocated specifically towards high wildfire threat zones, based on data from the SGIP Equity Resiliency Program. Using the incentive dollars and nameplate capacity from historical application, a future capacity forecast was extrapolated based on remaining incentive dollars. This MW forecast was spread evenly across circuits in high fire threat zones meeting the incentive program requirements. To allocate the remaining residential ES MW forecast based on the CEC's 2020 IEPR, SCE applied the same circuit shares used for residential Solar PV.

Circuit Level Non-Residential Disaggregation Methodology:

Based on observations to date, SCE assumed that most non-residential customers are using energy storage to reduce their peak demand charges. As a result, SCE established the peak to energy ratio (based on historical customer load) as a strong signal for candidate ES adopters. SCE considered the top 25% of non-residential customers with the highest peak to energy ratios as the likely candidates for adopting energy storage system. SCE calculated the number of adopters at each circuit then assigned the share of the likely adopters to each circuit. Finally, SCE applied the share ratio to the 2020 IEPR non-residential storage forecast to get each circuit's non-residential ES forecast.

4.3.1.4.2. METHODOLOGY TO ESTIMATE CIRCUIT LEVEL 8760 HOURLY FORECAST

SCE used separate 8760 hourly profiles for residential customers and non-residential customers. The 2020 IEPR hourly forecasts⁵⁶ for residential and non-residential energy storage were properly scaled to be applied to the residential and non-residential energy storage circuit level forecasts.

⁵⁵ California Energy Commission, "PV and Storage by Forecasting Zone SCE CEDU 2020," 2020 (available internally as an Excel sheet provided via email from CEC "SCE Data Request - PV and Storage by FZ SCE CEDU 2020 (2021-04-08).xlsx"). SCE aggregates Forecasting Climate Zones 7 to 11.

⁵⁶ California Energy Commission, *CEDU 2020 Hourly Results - SCE - MID-MID*.
<https://efiling.energy.ca.gov/getdocument.aspx?tn=236299-5>

4.3.1.4.3. AN ILLUSTRATIVE EXAMPLE

In this example of residential storage disaggregation, Circuit X is assumed to be in a High Fire Threat District and eligible for resiliency incentives. Circuit X has circuit length 25.4 miles out of 25764.8 miles total for circuits qualifying for resiliency incentives. The forecasted capacity additions due to the resiliency incentives in 2022 is 4.468 MW, so Circuit X has an allocated share of 0.0044 MW ($25.4 \text{ miles} / 25,764.8 \text{ miles} \times 4.468 \text{ MW} = 0.0044 \text{ MW}$). The additional residential ES capacity not due to resiliency incentives is then considered. Circuit X's residential PV share in 2022 is assumed to be 0.0241%. SCE assigns the same share of energy storage to Circuit X. CEC's 2020 IEPR residential ES forecast for SCE in 2022, after subtracting the resiliency incentive MW, is 15.87 MW ($20.33 \text{ MW} - 4.468 \text{ MW} = 15.87 \text{ MW}$). Therefore, Circuit X has 0.00383 MW ($15.87 \text{ MW} \times 0.0241\% = 0.00383 \text{ MW}$) energy storage in 2022 not due to resiliency incentives. The total Circuit X's residential ES forecast is 0.00823 MW ($0.0044 \text{ MW} + 0.00383 \text{ MW} = 0.00823 \text{ MW}$).

For non-residential ES disaggregation, Circuit X's share among the top candidates is assumed to be 0.00398%. CEC IEPR non-residential ES forecast for 2022 is 31.63 MW. Therefore, Circuit X's non-residential ES capacity is 0.0013 MW ($0.00398\% \times 31.63 \text{ MW} = 0.0013 \text{ MW}$). Figure 13 and Figure 14 below displays the data sources, inputs, process, and outputs of SCE's Energy storage disaggregation process for residential and non-residential categories.

FIGURE 13: ENERGY STORAGE (RESIDENTIAL) FLOWCHART

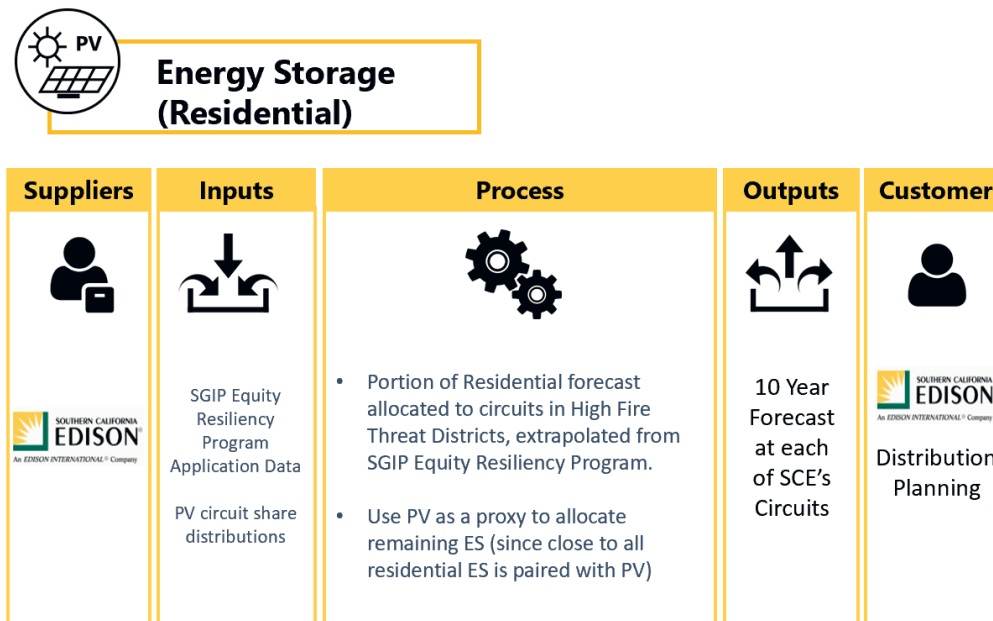
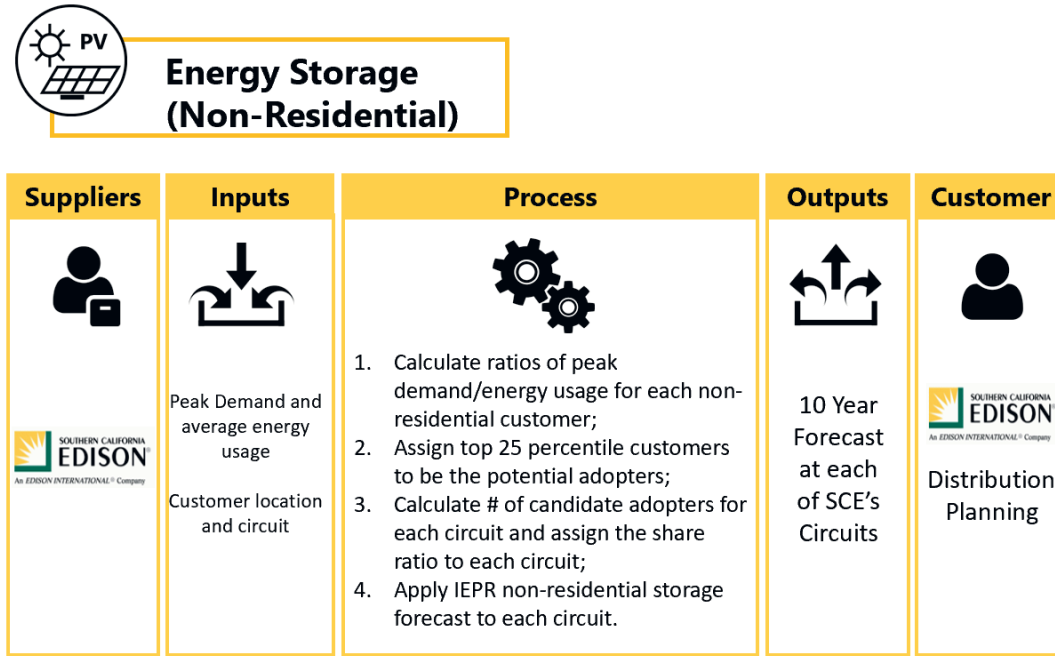


FIGURE 14: ENERGY STORAGE (NON-RESIDENTIAL) FLOWCHART



4.3.1.5. Load Modifying Demand Response

There are two primary categories of Demand Response (DR) programs Supply-side and Load-modifying:

1. Supply-side DR resources are integrated into wholesale energy markets of the California Independent System Operator.
2. Load-modifying DR resources are typically driven by time-variant rates, and any associated load reduction is counted in reduced peak demand forecast.

Only Load Modifying DR (LMDR) and not supply-side demand response, is the subject of this writeup as they remain under the direct auspices of SCE.

SCE defines LMDR as customers on the Critical Peak Pricing (CPP) DR program.

To develop the model to disaggregate LMDR, SCE leveraged different data sources to gather installed savings data as well as historical energy use. The primary data sources include:

1. Historical DR participation and opt-out rates;
2. Active SCE customer data with NAICS information; and
3. LMDR EM&V Ex Ante Hourly Load Impacts

SCE's LMDR load shapes are derived from the CPUC's Load Impact Protocol models. In this case, SCE match the CEC's 2020 IEPR Mid-Mid Event Based DR Load Modifier forecast⁵⁷ with Load Impact Protocols to assure continuity between load forecast and the corresponding DR load shapes.

4.3.1.5.1. METHODOLOGY TO DISAGGREGATE CEC'S LMDR SYSTEM LEVEL FORECAST TO SCE'S CIRCUIT LEVEL

1. Step 1 - Identify Existing Participants: Existing LMDR participants were identified using CPP enrollment status. This allowed SCE to directly map existing LMDR customers' load impacts to the circuit to which they belong.
2. Step 2 - Identify Key Indicators of Adoption through Propensity Analysis: SCE's statistical models took historical LMDR customer data and extracted patterns and common characteristics among those who have adopted and opted out of the CPP. These indicators of adoption were used as data inputs in SCE's propensity models to estimate the likelihood of new customers enrolling in an LMDR program.
3. Step 3 - Score eligible⁵⁸ CPP customers in SCE's territory: SCE scored and ranked each service account in its territory based on their likelihood of enrolling in an LMDR program using the results of the propensity models.
4. Step 4 – Disaggregate IEPR Forecast by Circuit: Combine service account adoption information (Step 1) and propensities (Step 3) into a circuit-level ranking. This was done separately for small, medium, and large customers, as defined by the LMDR EM&V Ex Ante Load Impacts workbook. Finally, normalize results by circuit and multiply with CEC IEPR forecast to determine circuit allocation.

4.3.1.5.2. METHODOLOGY TO ESTIMATE CIRCUIT LEVEL 8760 HOURLY FORECAST

In order to estimate the circuit level hourly LMDR forecast, SCE's Load Impact Protocol-based load shapes are multiplied by the annual LMDR forecast by circuit.

4.3.1.5.3. AN ILLUSTRATIVE EXAMPLE

In this example, the total system IEPR LMDR forecast is assumed to be 100 MW, with 80 MW comprised of existing participants. The first step is to identify where those existing LMDR participants are located. SCE then maps the existing participants' site information to their circuits.

For the remaining LMDR forecast of 20 MW, it is assumed that the scores and rank list consist of customers on two programs (Program A and B) with different average load impacts. Program A and Program B have customer rankings of 1-10 and 11-50, with an average load impact of 1 MW and 0.5 MW, respectively. In this example, only customers ranked 1-10 (10 x 1 MW =10 MW) and customers ranked 11-30 (20 x 0.5 MW =10 MW) are selected in order to

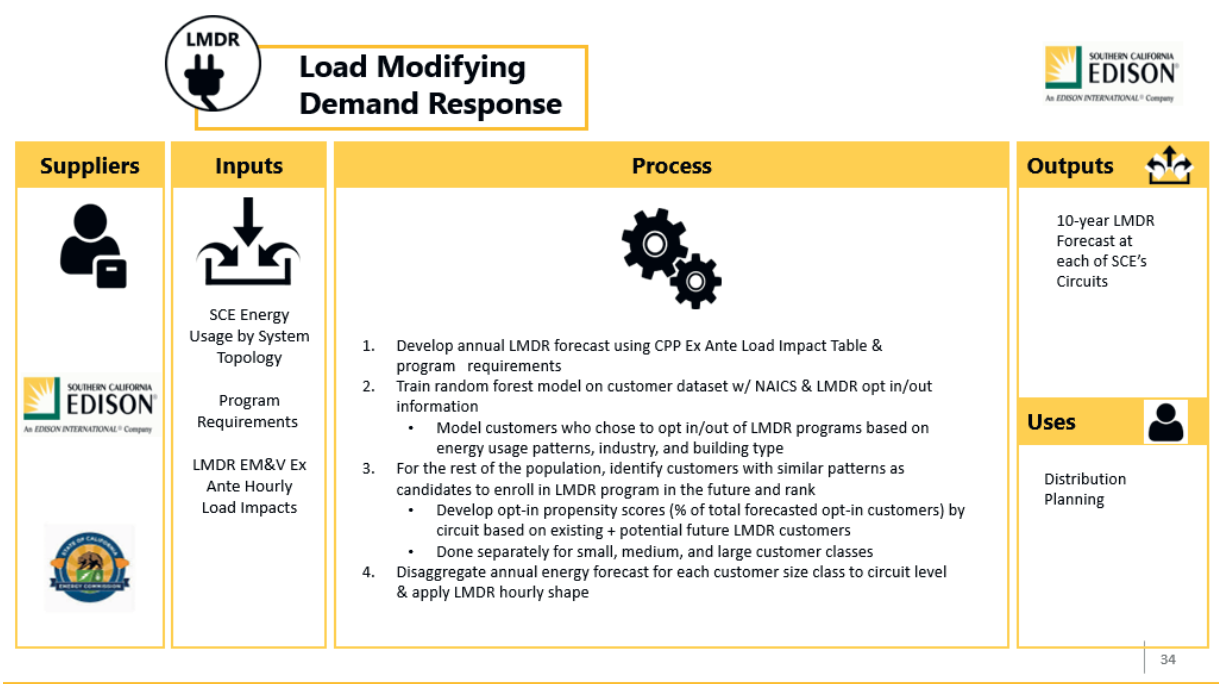
⁵⁷ 2020 IEPR Load Modifier Forecast - SCE TAC Peak and Energy Forecasts: CED 2020 Forecast, Mid Baseline-Mid AAEE

⁵⁸ SCE Demand Response Programs, *Program Eligibility*, (available at:

<https://www.sce.com/es/business/savings-incentives/demand-response/eligibility>)

make up the residual MW amount and match the IEPR system level LMDR forecast. Figure 15 below displays the data sources, inputs, process, and outputs of SCE’s load modifying demand response disaggregation process.

FIGURE 15: LOAD MODIFYING DEMAND RESPONSE FLOWCHART



4.3.1.6. Time of Use

This section applies to TOU rate impacts, which is based on the CEC’s 2020 IEPR Load Modifier forecast. Expanded use of TOU retail prices can encourage energy consumers to use electricity when it is clean and abundant, while reducing use at other times. Expanded use does not reduce consumption but, rather, shifts energy use to off peak hours.

4.3.1.6.1. METHODOLOGY TO DISAGGREGATE CEC’S TOU SYSTEM LEVEL FORECAST TO SCE’S CIRCUIT LEVEL

The first step in the TOU disaggregation process is to annualize the CEC’s IEPR TOU impact forecast data contained in the CEC’s published hourly load forecast⁵⁵. The completion of this step supplied annual TOU impacts over the life of the forecast.

The second step is to extract SCE Residential customer annual energy usage from SCE CSS billing system for each circuit. Using this data SCE was able to calculate the percent of total Residential energy use for each circuit.

Lastly step 3, SCE completed the TOU disaggregation forecast by simply multiplying step 1 (annual TOU IEPR forecast loads) and step 2 (Percent of Residential customer loads on each circuit).

4.3.1.6.2. METHODOLOGY TO ESTIMATE CIRCUIT LEVEL 8760 HOURLY FORECAST

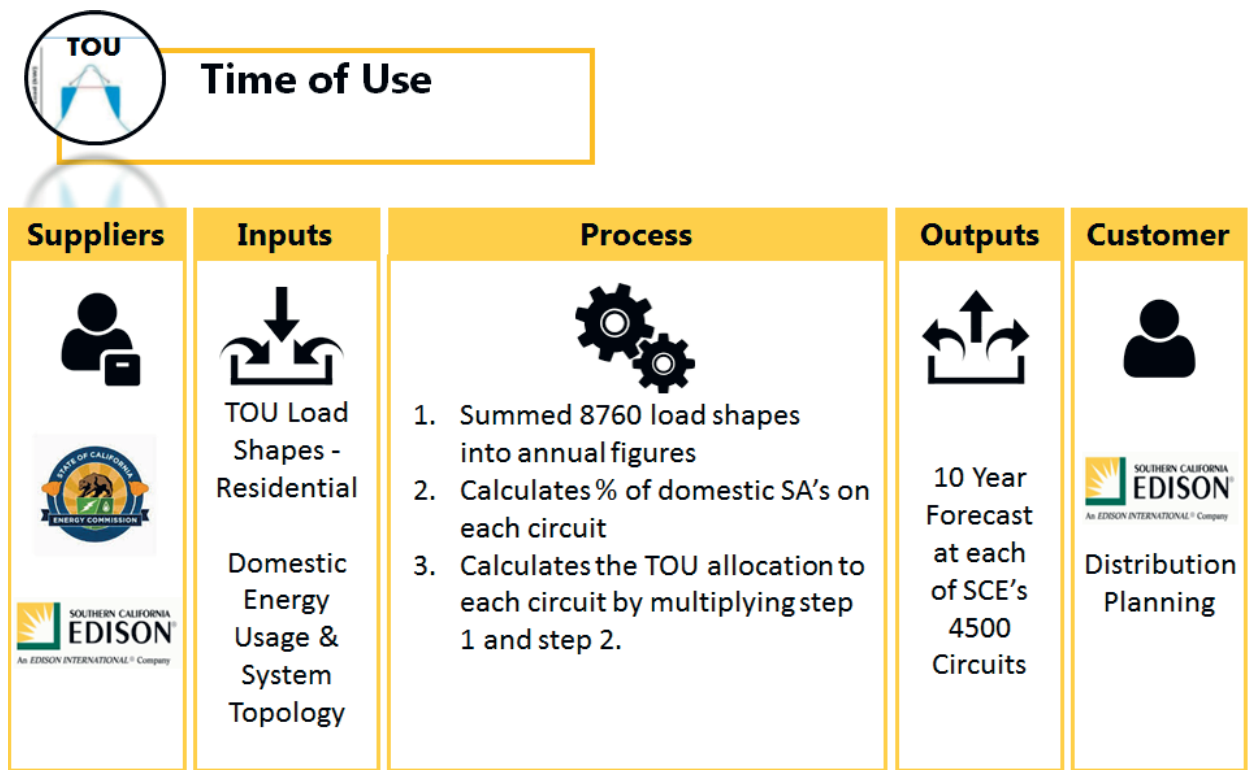
To estimate circuit level hourly TOU impacts, SCE utilized the aforementioned CEC hourly TOU load shapes discussed in step 1 above. SCE then unitized the CEC 8760 load shape by calculating a percentage for each 8760 hourly energy usage for each year of the forecast. SCE then multiplies the circuit level TOU forecast to the hourly CEC TOU unitized load shape.

4.3.1.6.3. AN ILLUSTRATIVE EXAMPLE

In this example, SCE first added the total hourly TOU forecast in the CEC published 2020 IEPR hourly load forecast for 2021. SCE then created annual hourly percentages for each year contained in the forecast thus calculating a circuit allocation factor (Hourly annual loads / Total annual loads).

As an illustrative example for fictitious circuit X: Step 1 is to identify total annual CEC TOU IEPR impacts forecast: the total annual TOU impacts for SCE in 2022 is 52 GWH. Step 2 is to calculate percent of total Residential customer data on a circuit. This will supply an allocation factor. SCE’s X circuit has a 0.036 allocation factor for 2022. Step 3 is to calculation of a TOU circuit level disaggregated TOU forecast by multiplying a total annual TOU forecast (step 1) by a percent circuit allocation factor (step 2). $52\text{GWH} \times 0.036 = 1.8 \text{ GWH}$ of TOU impacts are estimated on Circuit X.

FIGURE 16: TIME OF USE FLOWCHART



4.3.2. Load Disaggregation

This section describes the data sources and methodology used to disaggregate the system level IEPR load forecast to circuits. As a result of the CPUC Decisions⁵⁹, SCE disaggregated the CEC's IEPR load forecast (i.e., incremental energy GWh forecast) to circuits, and load shapes (or profiles) were used to determine load coincident to circuit peak times. The load methodology discussed in this section describes how the CEC's IEPR base load forecast, defined in Section 5.1, was disaggregated to the circuit level.

To disaggregate the system level load forecast, SCE leveraged both internal and external data sources. The primary internal data sources included historical profiles (i.e., 8760s), new customer LGP information, representative sector shapes (i.e., 8760s) used for new customer project information, and weather data from weather stations local to SCE circuitry. The primary external data sources were monthly economic and demographic data from the following sources: Moody's Analytics⁶⁰ and the State of California Employment Development Department (EDD).⁶¹ Economic and demographic data are provided at the Metropolitan Statistical Area (MSA) level, and an MSA is assigned to each circuit based on the primary geographical area served.

Representative sector shapes (e.g., commercial, industrial) were developed internally using typical shapes based on historical billing information by sector. Sector shapes were aimed at considering the effects of new customer load growth on existing circuitry that may or may not be coincident to the circuit peak depending upon existing loading characteristics.

4.3.2.1. Methodology to Disaggregate CEC's Load System Level Forecast to SCE's Circuit Level

SCE disaggregated the IEPR Demand Forecast based on an internally developed methodology that considered both local known LGP information and the resulting annual growth from an internally developed econometric model forecast. Below are the main steps SCE utilized to establish a reasonable estimation of where future load growth should be disaggregated utilizing the IEPR Demand Forecast.

1. Step 1: Identify New Customer LGP Information and Apply Representative Sector Load Shapes

Distribution planners work directly with customers and internal local district personnel organizations at SCE to identify customer requests to serve new LGPs. The LGPs provide valuable information regarding the locations of future customer demand across SCE's distribution circuitry. The LGPs considered typically do not include small customer load requests unless they are impactful to the local circuitry. The distribution planners gather relevant project information including the exact location of the project, size (in demand) of the project, how the customer plans to operate, and the anticipated completion date(s) of the project. The distribution planner identifies the appropriate circuitry in the area to serve the new load. Given local

⁵⁹ Decisions 05-10-042/07-12-052/18-02-004

⁶⁰ Moody's Analytics (*available via subscription at <https://www.moodyanalytics.com/>*).

⁶¹ California EDD Labor Market Info Industry Employment database (*available at <https://www.labormarketinfo.edd.ca.gov/cgi/dataanalysis/areaselection.asp?tablename=ces>*).

customer LGP information provides higher certainty around the locational load impact, SCE first considers LGP growth for the identified impacted local areas or circuits through its load disaggregation process. Only those LGPs that are reflected within the IEPR are included in the initial step of load disaggregation.

Using the size of the project, SCE applies a representative sector load shape to determine the annual energy for calculation of allocation factors that are noted in Step 3.

2. Step 2: Development of the Econometric Forecast and Establishment of Associated Growth

After considering LGP growth within the disaggregation process, SCE considers an econometric model generated load forecast for disaggregating the remaining IEPR load growth. The time-series econometric models produce 10-year monthly energy and hourly load forecasts for each circuit using historical load profiles, economic and demographic driver data by MSA, and historical weather information based on local weather stations. The econometric forecast uses a two-stage forecasting approach that produces monthly and hourly energy forecasts for each (asset) sequentially.

Both monthly energy and hourly load forecast models utilize multivariate regression models selected based on best fit criteria with the most recent year data excluded from the models as a holdout period. Typically, the model with the best fit is the model with the lowest Mean Absolute Percent Error (MAPE). SCE also checks on the reasonableness of the established relationships (e.g., positive or negative) between the explanatory variables (e.g., local population growth) and the local load, through the model selection process. The best fitted models are then estimated using the entire available historical data and used for generating 10-year forecasts for different circuits.

The annual energy from the monthly models is used to calculate the allocation factors that are noted in Step 3.

3. Step 3: Development of Allocation Factors and Disaggregation of IEPR Demand Forecast

Allocation factors are generated at the distribution circuit level based on the annual growth (in energy) identified from both LGPs and the econometric model load growth forecast. The purpose of allocation factors is to ensure that each circuit receives the appropriate share of the IEPR forecasted growth and to ensure the total IEPR forecasted growth is not exceeded for SCE's service territory. The allocation factors are determined using a level-of-certainty (LOC) analysis which reviews certain categories of consideration associated with a project (e.g., if SCE received an application for the project, the project's load schedule, the project's construction status, etc.) The distribution of load across the 10-year forecast utilizes a combination of project-based allocation factors and LOC to assign yearly load totals across SCE's service territory via a method called "Whirlpool." The allocation factors are calculated using a percent-of-total formula, at the circuit level, which is then multiplied by the available IEPR load growth forecast. The total amount of growth is the summation of the disaggregated growth from LGPs and the econometric model forecast.

4.3.2.1.1. METHODOLOGY TO ESTIMATE CIRCUIT LEVEL 8760 HOURLY FORECAST

To estimate the circuit-level hourly load growth forecast, the disaggregated load growth is multiplied by the representative sector shape (for new customer load project growth) or the hourly forecasted load shape (for the time-series econometric model forecasted growth).

4.3.2.1.2. AN ILLUSTRATIVE EXAMPLE

In this example, the total system IEPR load growth to be allocated in a given year is assumed to be 1,000 GWh (e.g., IEPR threshold). All local customer LGP information has been gathered, and after applying representative sector shapes, the total annual LGP growth (in energy) is anticipated to be 700 GWh. SCE has been notified by a potential new customer that they will be installing a new industrial plant (or LGP), and the estimated peak loading will be approximately 1.5 MW. This project was included as part of the 700 GWh. Using the industrial sector representative shape, the 1.5 MW is anticipated to be 9.07 GWh of annual energy.

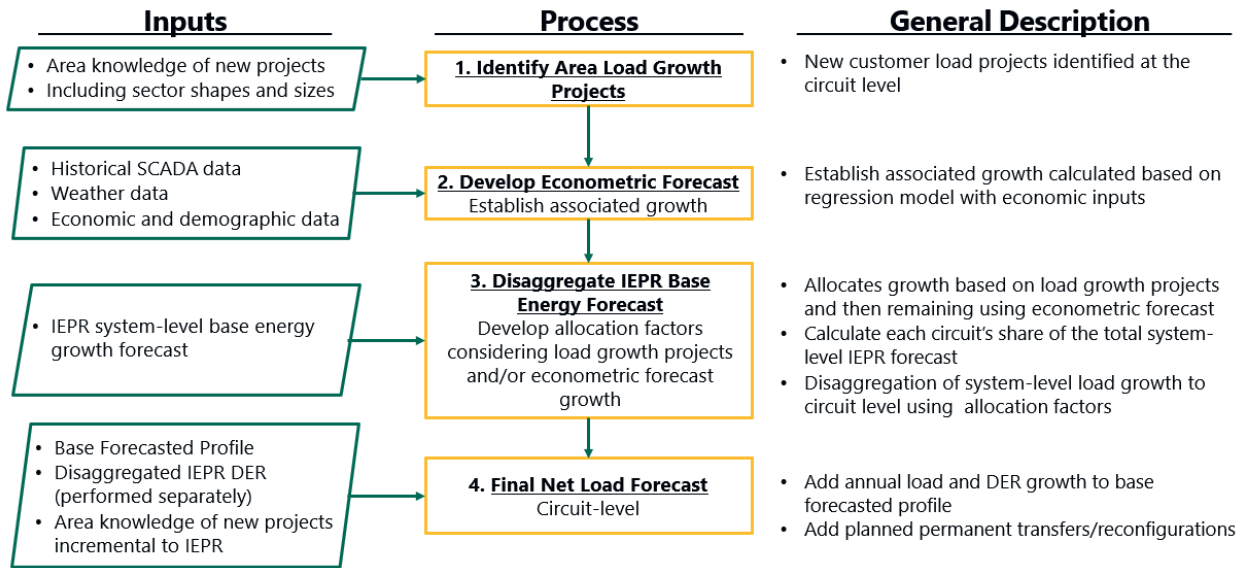
An econometric forecast is developed for the circuit impacted by the LGP above, and it estimates additional growth of 0.62 GWh of annual energy. In addition, the total system-wide growth from the econometric model forecast for any given year is anticipated to be 400 GWh of annual energy. Circuit allocation factors are calculated separately to determine the respective shares of both customer LGP and econometric forecast growth to be disaggregated. It is found that a 0.013 allocation factor ($9.07 \text{ GWh} / 700 \text{ GWh} = 0.013$) will be applied for the new industrial plant, and a 0.0016 allocation factor ($0.62 \text{ GWh} / 400 \text{ GWh} = 0.0016$) will be applied based on the Econometric Forecast Growth.

Given that the IEPR has 1,000 GWh of available growth for disaggregation, all 700 GWh of LGP growth is allocated. Therefore, the total growth disaggregated to the circuit for the customer LGP is 9.07 GWh ($0.013 \times 700 \text{ GWh} = 9.07 \text{ GWh}$). The remaining available total system IEPR load growth to be disaggregated is 300 GWh, and that would be disaggregated based on the Econometric Forecast Growth. The total growth disaggregated to the circuit based on the econometric forecast is 0.48 GWh ($0.0016 \times 300 \text{ GWh} = 0.48 \text{ GWh}$). Although there was 400 GWh of anticipated growth from the econometric model forecast, it was constrained by the remaining total system IEPR load growth available ($1,000 \text{ GWh} - 700 \text{ GWh} = 300 \text{ GWh}$) after considering disaggregating growth related to the LGPs available.

The disaggregated 9.07 GWh of annual energy related to the customer LGP is then multiplied by the industrial representative sector shape to estimate the circuit-level hourly load growth. The disaggregated 0.48 GWh of annual energy based on the econometric forecast would then be multiplied by the hourly forecasted load shape to estimate the circuit-level hourly load growth. Both profiles would be added together and integrated with the DER growth profiles to generate the hourly net load forecast. SCE's existing planning software utilizes single point-in-time analysis. The values used in the planning software are extracted from the forecasted profiles and are coincident to the forecasted peak time. The 9.07 GWh could result in 0.8MW which is lower than the maximum 1.5MW requested demand. Figure 17 below displays SCE's load disaggregation process.

FIGURE 17: LOAD DISAGGREGATION FLOWCHART

SCE's Overall Net Load Disaggregation Process



4.3.3. Assumptions, Impacts of these Assumptions, and Details that Impact the Forecast

SCE's annual DPP produces a 10-year forecast, and as in every forecast, it contains assumptions that may change annually, including, but not limited to the following: input information, distribution system configuration, planning tool advancements, and planning process enhancements. Given these assumptions, it should be assumed that every annual forecast is applicable until a new forecast is developed. It is difficult to assess the annual impact of these assumptions due to the many variables. SCE seeks to reduce volatility between forecasts but deems it appropriate to incorporate new information as it becomes available.

One of the primary areas that may drive significant change within the forecast is related to input information. It is assumed that the following input information is only relevant to the present forecast:

1. 2020 IEPR Forecast for respective Load and DERs
2. Economic and Demographic forecast data used by the econometric models
3. Historical Asset (e.g., Circuits) Characteristics
4. Customer Project Information
5. Weather Station Information
6. Historical Temperature Data
7. Historical Recorded Demand (or net demand serving as the foundation of forecast)

SCE is currently in the process of implementing its LTPT and modernizing its current planning process. The development of the LTPT has spurred advances in software and methodologies that have created a more informed planning process via the use of loading profiles (i.e., 8760s) as part of the disaggregation process. It is anticipated that SCE will transition to a fully profile-based forecast after full implementation of LTPT. Therefore, this could lead to additional forecast improvement and further changes in the future.

5. Known Load Projects Overview

This section illustrates how SCE is addressing Reform 2.6 from the 2022 DIDF Ruling. This reform directly relates to how known load projects or LGPs are tracked and whether LGPs materialize.

Reform 2.6 requires the IOUs GNA/DDOR filings to include a detailed review of known load projects, including but not limited to, types of loads, number, amounts, and timing. A summary shall also be included similar to the evaluation provided in Section 3 of the March 17, 2022 IPE Report.

5.1. Understanding the Known Load Projects

The Known Load Projects report that accompanies SCE's 2022 DDOR filing includes the following information: the impacted circuit, unique project identifier, load sector, load category, IEPR status, requested load amount, initial service request date, current expected in-service date, status, actual in-service date, and actual load amount.

The "Load Sector" represents whether the LGPs are Agricultural, Commercial, Residential, or Industrial.

The "Load Type" is a subset category of each of the four load sectors. For example, residential sector may include load type categories of Apartments, Custom Homes, Mega Tract Homes, Mixed Use, and others.

The "IEPR Status" represents where the LGPs are Embedded or Incremental (see Section 4.2). Embedded known loads are those that SCE identifies are already accounted for in the CEC IEPR forecasts and Incremental known loads are those in addition to the CEC IEPR forecast (see Section 4.2). SCE utilizes the "Whirlpool" method (see Section 4.3.2.1) to ensure that Embedded known loads and Econometric load growth included in any year do not exceed the CEC IEPR forecast for that year⁶².

The "Requested Load Amount (MVA)" represents the total load amount requested by the LGP in the first 5 years of the planning horizon. This is the amount the customer requests for and does not account for loading adjustments that take place in SCE's load disaggregation process.

The "Initial Service Request Date" represents the date when the LGP was inputted into SCE's project database.

The "Current Expected In-Service Date" represents the date the LGP is expected to be energized. SCE does not track historical in-service dates, in cases where SCE does not have enough data to determine the actual year an existing LGP was energized, "N/A" will be filled for this project. For example, some customers have been in service for many years but request more load over time in the same location as business expands. SCE monitors the increase of load over time by keeping track of load schedules moving forward but not when service was initially provided.

The "Status" indicates whether the service request was cancelled or is ongoing.

⁶² There are 3 low duty commercial EV charger projects (i.e., Unique Project ID 557100, 540272, and 557106), with a combined requested load amount of 2.143 MVA, that were incorrectly identified as Embedded that should have been accounted for as Incremental.

The “Actual In-service Date” and “Actual Load Amount” are not available for the 2022 GNA/DDOR filing. SCE will further explore how to include this information in future filings.

6. GNA Overview

This section provides a high-level description of the data contained in SCE’s 2022 GNA report.

6.1. DER Distribution Services Requirements

The grid needs to be mitigated by candidate deferrals included in the GNA/DDOR must be met by one or more of the following four distribution services adopted by D.16-12-036.⁶³

- **Capacity Services:** Load-modifying or supply services that DERs provide to reliably and consistently reduce net demand on one or more grid assets. These services are required to reduce net demand during peak conditions such that equipment does not exceed capacity ratings. SCE also considers underground cable temperature (UCT) needs within the capacity category. UCT needs result from high loading on a circuit(s) located within an underground conduit where increased heat impact can damage and cause equipment failure. UCT needs are driven by the mutual heating impact of all the circuits sharing an underground structure and conduit pathway. UCT needs do not allow a direct comparison of forecasted net demand with the equipment rating and require simulations.
- **Voltage Support Services:** Dynamic voltage management services provided by DERs to dynamically correct excursions outside voltage limits established by Rule 2⁶⁴ as well as supporting conservation voltage reduction strategies in coordination with utility voltage/reactive power control systems. SCE further specifies the type of voltage support services as either voltage or reactive power.
- **Reliability Services (Back-Tie):** Load-modifying or supply services that DERs provide to improve local system reliability during outage conditions. Specifically, this service provides a fast reconnection and availability of excess reserves to reduce demand via back-tie when restoring customers during abnormal configurations. This service provides capacity and/or voltage support during outage conditions such that grid configuration allows customers to continue to be reliably and safely energized from SCE’s distribution grid. Under Normal-1 (N-1) outage conditions, grid needs may require either capacity or voltage support. These candidate deferrals will have one distribution service as reliability and another distribution service as either capacity or voltage listed in the DDOR to distinguish them from the capacity or voltage services provided for normal system conditions.
- **Resiliency Services (Microgrid):** Load-modifying or supply services that DERs provide to improve local system reliability and/or resiliency. This service provides a fast reconnection and availability of excess reserves to serve customers through a microgrid configuration during abnormal or outage conditions. Microgrids serve customers while isolated from the bulk electric system.

⁶³ D.16-12-036, *Decision Addressing Competitive Solicitation Framework and Utility Regulatory Incentive Pilot in the Integrated Distribution Energy Resource Proceeding*, issued December 15, 2016, at pp.7-8.

⁶⁴ SCE Tariff Books, *Rule 2: Description of Services* (available at <https://www.sce.com/regulatory/tariff-books/rules>).

6.2 Summary of Grid Needs

This section provides a set of tables summarizing data contained in SCE's 2022 GNA report.

TABLE 5: SUMMARY OF GRID NEEDS BY DISTRIBUTION SERVICE TYPE GROUPED BY SCE REGION

Region	Capacity	Capacity (UCT)	Reactive Power	Reliability, Capacity	Reliability, Voltage	Voltage	Total
Desert Region	13	22	8	4	2	2	51
Metro East Region	13	42	11	3	0	0	69
Metro West Region	24	10	4	2	0	0	40
North Coast Region	13	24	5	10	1	0	53
Orange Region	1	16	6	3	0	0	26
Rurals Region	18	8	1	2	0	8	37
San Jacinto Valley Region	8	26	2	0	0	0	36
San Joaquin Region	0	5	0	2	2	0	9
Total	90	153	37	26	5	10	321

TABLE 6: SUMMARY OF GRID NEEDS BY DISTRIBUTION SERVICE TYPE AND ASSET TYPE

Asset Type	Capacity	Capacity (UCT)	Reactive Power	Reliability, Capacity	Reliability, Voltage	Voltage	Total
Distribution Feeder	62	153	35	6	0	9	265
Distribution Substation	24	0	0	2	5	1	32
Subtrans. Substation	1	0	2	5	0	0	8
Subtransmission Line	3	0	0	13	0	0	16
Total	90	153	37	26	5	10	321

6.3 Understanding the Grid Needs Assessments Report

The GNA includes forecasted equipment deficiencies, incremental demand, and incremental DER growth for each circuit and distribution substation with a grid need over a five-year forecast horizon. Three worksheets are included within the GNA report:

- Planning Assumptions_Feeder
- Planning Assumptions_DistSub
- Grid Needs Assessment (GNA)

The "Planning Assumptions_Feeder" worksheet and the "Planning Assumptions_DistSub" worksheet contain a 5-year load and DER forecast for SCE's distribution circuits and distribution substations. The "Facility Loading Limit" column represents the MW value at which the representative facility can be safely operated to serve load for the specified year of the forecast. The "Total DER Growth" column for the feeder worksheet is a summation of DER growth for the feeder for the specified year of the forecast. These include the DERs reported within the feeder-level planning assumptions sheet. As a point of clarification, the EV DER column is a summation of all TE categories as covered within Section 4.3.1. Similarly, the "Total DER Growth" column for the substation worksheet is a summation

of DER growth for all downstream circuits of the representative facility for the specified year of the forecast. These include the DERs reported within the distribution substation-level planning assumptions sheet.

In the “Grid Needs Assessment (GNA)” sheet, the “Equipment Rating” column for a facility is the absolute minimum rating over the five years for the corresponding asset. When a single facility has multiple projects developed and presented in the DDOR (e.g., due to a different timeframe of the needs), the lowest rating over the five years is utilized. In addition, when a single asset has multiple projects included in the DDOR, the operating date for this asset presented in the “Grid Needs Assessment (GNA)” sheet is the earliest operating date of the corresponding project in the DDOR.

7. DDOR Overview

This section provides a high-level description of the data contained in SCE’s 2022 DDOR.

The DDOR contains SCE’s planned investments which address the grid needs identified in the GNA report. Only those planned investments that have gone through relevant internal approval processes and have been allocated budget through the DPP are included in the DDOR. This ensures that the planned investments included in the DDOR have a reasonable expectation of being constructed.

SCE’s DDOR represents a point-in-time analysis of all planned investments proposed by the completion of its annual DPP. For this reason, changes to planned investments after the completion of the DPP are not reflected in the DDOR. Any changes that affect deferral projects will be reflected in the DER operational requirements detailed during the launch of their solicitation activities.

7.1 Summary of Planned Investments

This section provides a set of tables summarizing data contained in SCE’s 2022 DDOR planned investment list.

TABLE 7: SUMMARY OF PLANNED INVESTMENTS BY REGION AND BY PROJECT TYPE

Region	Distribution	Distribution VAR	Subtransmission	Total
Desert Region	31	7	4	42
Metro East Region	38	15	2	55
Metro West Region	45	6	2	53
North Coast Region	31	6	10	47
Orange Region	12	11	2	25
Other Region	1	0	0	1
Rurals Region	20	6	2	28
San Jacinto Valley Region	19	3	2	24
San Joaquin Region	6	0	4	10
Total	203	54	28	285

TABLE 8: SUMMARY OF PLANNED INVESTMENTS BY DISTRIBUTION SERVICE⁶⁵

Distribution Service						Total
Capacity	Voltage	Reactive Power	Reliability, Capacity	Reliability, Voltage	Resiliency	
195	9	53	24	4	0	285

TABLE 9: SUMMARY OF PLANNED INVESTMENTS BY OPERATING DATE

Operating Date										Total
2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
102	121	37	13	9	1	1	1	0	0	285

TABLE 10: SUMMARY OF PLANNED INVESTMENTS BY LNBA RANGE⁶⁶

LNBA Range (\$/kW-yr)						Total
\$0	(\$0-\$50]	(\$50-\$100]	(\$100-\$200]	(\$200-\$500]	>\$500	
23	116	36	28	11	7	221
LNBA Range (\$/Vpu-yr)						Total
\$0	(0-\$100,000]	(\$100,000-\$200,000]	(\$200,000-\$500,000]	>\$500,000		
0	7	3	0	2		12
LNBA Range (\$/kVAR-yr)						Total
\$0	(\$0-\$50]	(\$50-\$100]	(\$100-\$200]	(\$200-\$500]	>\$500	
15	35	1	0	1	0	52
Total						285

7.2 Understanding the Planned Investment Report

SCE uses three identifiers to facilitate the linkage between the grid needs in its GNA report and the planned investments/candidate deferral projects in its DDOR.

- DDOR Project ID: a project identifier used to associate different components of a single project. For example, the project DDOR_2022_7978_959298 is a single project that would mitigate needs of multiple assets; this project has multiple line items in the planned investments list, with each line item mapping to a circuit that has a grid need being solved by the project.
- DDOR ID: a unique identifier for each line item in the planned investments list.
- GNA ID: a unique identifier assigned in the “Grid Needs Assessment (GNA)” sheet to represent each unique line item in the “Grid Needs Assessment (GNA)” sheet. GNA ID is used for linkage purposes in the Planning Assumption sheets (feeder and substation) and DDOR report.

⁶⁵ Two capacity projects also have additional voltage service required and two capacity projects also have additional reliability, capacity service required.

⁶⁶ Projects with an LNBA (\$/kW-yr) value greater than \$0 but less than or equal to \$50 are recorded in the (\$0-\$50] column.

When cross referencing information in SCE's GNA report and DDOR, it is important to note the GNA report contains needs on individual assets while the DDOR contains project-based information. In some cases, multiple projects are proposed to address one circuit's needs (e.g., due to different timeframes of the needs). In other cases, a single project is proposed to address multiple system needs. The grid needs presented in the GNA report are representative of needs that will be solved by planned investments provided in the DDOR.

There are some planned investments with multiple needs on the same asset. For example, a project can mitigate an asset's equipment rating exceedance as well as its UCT exceedance. Both violations can be met by the capacity service (Distribution Service Required or DSR). In these cases, the largest need is reported because the same service can solve both needs. However, if a planned investment is solving two different DSRs (such as a capacity service and voltage support service) on the same asset, these needs are listed separately in the planned investment sheet with the same project number.

According to Rule 2, secondary service voltage levels should be maintained between 0.95 per-unit voltage (Vpu) and 1.05 Vpu (i.e., within 5% of nominal voltage). For planned investments addressing voltage needs, the deficiency is listed as the actual Vpu value of the asset to avoid confusion on whether deficiency value refers to the deviation from the base (1 Vpu) or the range boundary (0.95 Vpu / 1.05 Vpu). The actual voltage deficiency of the asset is the amount less than 0.95 Vpu or the amount greater than 1.05 Vpu. For example, the project DDOR_2022_131048 shows a 0.89 Vpu for 2022, making the actual voltage deficiency 0.06 Vpu (the amount less than 0.95Vpu).

There are some planned investments with no needs in the five-year horizon, as determined through SCE's 2022 DPP. Most of these scenarios are because the projects are either already completed (with an operating date in early 2022) or in execution based on previously forecasted needs. Changes to load and DER forecasts, and resulting changes to associated grid needs, can be caused by various factors including but not limited to:

1. Change of the forecasted load and DER with the most recent IEPR forecast used in SCE's 2022 DPP.
2. Update to the starting demand based on the latest circuit peaks observed in the previous summer period resulting in decreased values in comparison to the previous planning process.

Another scenario for planned investments with no needs in the five-year horizon is because one or more components of these projects have grid needs identified later than year 5 (e.g., beyond 2025). For example, the project DDOR_2022_7978_959298 is designed to mitigate needs on three assets, with two assets expected to have capacity need starting in 2025 (within the five-year horizon), and the other asset expected to have capacity needs starting in 2031 (after the five-year horizon). Since these project components do not have associated needs in the reported five-year horizon, these project components do not have an associated GNA ID unless the same asset has another need within the five-year horizon addressed by another planned investment.

SCE does not track or build out project timelines based on Association for the Advancement of Cost Engineering (AACE) standards. As such, AACE classifications being assigned to each project was SCE's best effort to correlate SCE business process and AACE classifications. SCE organized the current project list into distinct projects group types. An estimated average AACE timeline for each classification was created for each specific project group types based on AACE definitions and averaging historical execution information. The timeline outlined the average days from operating date for each AACE classification for each project group type. That timeline was applied to each project to assign an AACE classification.

SCE cross-references 2022 planned investments with previous DDORs as far back to 2019 when DDOR Project IDs were introduced.

7.3 Utility-Owned DERs

SCE did not evaluate new IOU-Owned DER solutions in conjunction with wires as part of its 2022 DPP. SCE is currently working on tools and processes to integrate DER alternative evaluation into future planning processes and plans to begin testing those tools and processes in its 2023 or 2024 DPP. However, there are several IOU-owned distribution DER pilot projects, as listed in Table 11, that originated outside of SCE's annual DPP and are currently under development.

Mercury 1 and Mercury 2 are pilots to use BESS as a tool to assess how energy storage can help mitigate planning criteria violations, and it was recently determined that Mercury 1 equipment can be utilized to increase the power rating from 3.0 MW to 3.5 MW with software configuration changes and therefore ensure the continuous deferral of the *Rebuild Mesa-Narrows 66 kV Subtransmission Line* candidate deferral project from 2025 to 2028. Gemini 1 is a pilot developing technical requirements, processes and procedures that will support implementation of energy storage in different microgrids applications. These pilots were part of the Distributed Energy Storage Integration (DESI) pilot system included and approved as part of SCE's 2021 GRC⁶⁷ and will provide learning benefits for SCE to better integrate third party DERs in the future.

The Reliability Utility Owned Energy Storage (RUOES) projects were initiated by the California Governor's Proclamation of a State Emergency for 2022 to accelerate the development of clean energy storage projects to help meet summer peak loads in 2022.⁶⁸ The RUOES Projects will install a total of 537.5MW of BESS at strategic substations to meet forecasted peak demand in those areas: 225 MW, 112.5 MW, and 200 MW of 66 kV BESS to the Northern, Metro, and Southern regions within SCE's Territory, respectively. The total RUOES projects will supply an additional 537.5 MW to the BESS during forecasted peak demands.

The Smart City is an approved EPIC III IFOM microgrid project in partnership with a local government integrating customer, utility resources and utility operations. The project will develop a microgrid implementation process and deploy and test microgrid technology and use cases in the lab and field environments.

The Service & Distribution Centers of the Future is an approved EPIC III project that demonstrates a fleet service center with large EV charging demands, supporting elements such as energy storage, PV, and managed EV charging, submetering and electrified space and water heating - all controlled by an innovative site microgrid controller to maintain safe and reliable operation and minimize costs connected to SCE's DER management system for grid support. The location is in the disadvantaged community of El Monte. The key goals of this project are to evaluate the ability to fully electrify a large EV fleet service center, or depot, which would otherwise have a considerable grid system impact with high power and energy demands in a singular location, and to use modern technology to serve that center at lower cost and higher effectiveness. The results can be used to serve other impactful EV fleet depots in the most effective way.

⁶⁷ SCE 2021 GRC testimony, SCE-02, Vol. 4, Part 1

⁶⁸ Energy Emergency Proclamation (*available at*: <https://www.gov.ca.gov/wp-content/uploads/2021/07/Energy-Emergency-Proc-7-30-21.pdf>)

TABLE 11: IOU-OWNED DER PILOT PROJECTS

Project Name	Project Description	Online Date
Mercury 1 (DESI)	Two co-located, but electrically independent BESS to defer traditional capital upgrades related to a Subtransmission N-1 contingency to account for an outage on one of the two lines feeding the substation.	Q3 2023
Mercury 2 (DESI)		
Gemini 1 (DESI)	A BESS system to optimize islanding capabilities at SCE's Poole Hydro plant, help facilitate a microgrid, and provide lessons learned related to cold weather conditions.	Q3 2023
Anode (RUOES)	Driven by the Governor's Proclamation of a State of Emergency, three separate BESS are installed to help provide 537.5 MW of BESS deployment during peak hours.	Q2 2023
Cathode (RUOES)		
Separator (RUOES)		
Smart City (EPIC)	A IFOM microgrid project to develop a microgrid implementation process, deploy and test microgrid technology and use cases in the lab and field environments.	Q3 2025
Service & Distribution Centers of the Future (EPIC)	A fleet service center in a disadvantaged community with large EV charging demands and supporting elements all controlled by an innovative site microgrid controller to evaluate the ability to cost-effectively electrify a large EV fleet service center which would otherwise have a considerable grid system impact with high power and energy demands in a singular location.	Q3 2025

7.4 Initial Candidate Deferral Screens

After SCE completes its DPP and all planned investments are identified, SCE applies two screens to its planned investment list to identify projects that can be potentially deferred by DER. Consistent with D.18-02-004,⁶⁹ the following initial deferral screens were applied to planned investments to arrive at a candidate deferral project shortlist.

7.4.1 Timing Screen

The timing screen reflects the minimum lead time needed for DERs to defer a planned investment, this is primarily driven by the time requirements related to administering and completing a solicitation, interconnection processes, and developers to install the DER solution(s). SCE anticipates at least three years for the entire process, from project

⁶⁹ D.18-02-004, *Decision on Track 3 Policy Issues, Sub-track 1 (Growth Scenarios) and Sub-track 3 (Distribution Investment and Deferral Process) in the Distribution Resource Planning Proceeding*, issued February 8, 2018, at pp. 42-45.

identification, to CPUC approval, solicitation, interconnection study completion, permitting, procurement, installation, and operation to be completed. For a planned investment identified within the 2022 DPP to be selected for deferral by DERs, with a minimum lead time of three years to become operational, the earliest operating year of this planned investment will be 2025.

The planned investments in the DDOR apply a 5-year planning horizon (i.e., operating dates within the period from 2022 to 2026). Pre- and Post-Application Projects are an exception to this rule since they must be documented according to SCE's 10-year planning horizon per the 2020 May Ruling. As a result of the timing screen, planned investments included in the DDOR with operating dates from 2025 onwards will be included on the candidate deferral project list.

7.4.2 Technical Screen

The technical screen assesses whether DERs can provide all the required services that a project was developed to solve to meet the grid needs identified during the annual DPP.

As adopted in D.16-12-036 and explained in Section 6.1, capacity, voltage support, reliability (back-tie) and/or resiliency (microgrid) are the distribution services that DERs can provide to defer a traditional wires solution. These four distribution services were the criteria used to evaluate if a project passed the technical screen.⁷⁰

In addition to the distribution service categories mentioned above, the driver and scope of projects were examined to help ensure that the project is deferrable by DERs in practice. For example, if a project extends a distribution feeder to connect a new customer to the grid in a remote area, infrastructure is required to connect that customer to the grid, regardless of DER influence in the area. SCE satisfies its obligation to serve by ensuring customers have a connection to the larger electric grid. Therefore, these projects cannot be deferred by DERs even though the distribution service required is capacity.

7.5 Summary of Candidate Deferral Projects

The application of the timing and technical screens results in 25 candidate deferral opportunities including two Pre-Application projects and one Post-Application project. In SCE's Partial 2022 DDOR Filing, there were 17 candidate deferral projects identified. With the latest planning data included in this full GNA/DDOR, one previous Tier 3 project is no longer a candidate deferral project as its operating date was postponed to outside of the five-year reporting window, and nine new candidate deferral projects are added to the list.

⁷⁰ D.16-12-036, *Decision Addressing Competitive Solicitation Framework and Utility Regulatory Incentive Pilot in the Integrated Distribution Energy Resource Proceeding*, issued December 15, 2016, at pp.7-8.

TABLE 12: SUMMARY OF CANDIDATE DEFERRAL OPPORTUNITIES BY PROJECT TYPE AND REGION

Region	Project Type			Total
	Line Only	Substation and Line	Substation Only	
Desert Region	1	0	1	2
Metro East Region	3	0	1	4
Metro West Region	1	0	1	2
North Coast Region	6	1	1	8
Orange Region	2	0	0	2
Rurals Region	0	1	0	1
San Jacinto Valley Region	1	2	1	4
San Joaquin Region	2	0	0	2
Total	16	4	5	25

TABLE 13: SUMMARY OF CANDIDATE DEFERRAL OPPORTUNITIES BY DISTRIBUTION SERVICE

Distribution Service						Total
Capacity	Voltage	Reactive Power	Reliability, Capacity	Reliability, Voltage	Resiliency	
18	0	1	5	1	0	25

TABLE 14: SUMMARY OF CANDIDATE DEFERRAL OPPORTUNITIES BY OPERATING DATE

Operating Date										Total
2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
0	0	0	13	9	1	1	1	0	0	25

TABLE 15: SUMMARY OF CANDIDATE DEFERRAL OPPORTUNITIES BY LNBA RANGE⁷¹

LNBA Range (\$/kW-yr)						Total
0	(0-50]	(50-100]	(100-200]	(200-500]	>500	
0	7	8	8	2	0	25

7.6 Understanding the Candidate Deferral Report

There are two worksheets in the DDOR containing candidate deferral project specific data. The “Candidate Deferral Projects” worksheet contains data for the candidate deferral projects in Tiered format. In addition to the general project information (e.g., project description, associated grid needs, etc.) included in the “Planned Investments” worksheet, data used for prioritization are also presented. The “Candidate Deferral Add Info” worksheet presents operating requirements for DER solutions.

For certain project categories (e.g., subtransmission line projects, projects with voltage needs or reactive power, projects with both circuit level grid needs and substation level grid needs, etc.), grid needs displayed in the

⁷¹ Projects with an LNBA (\$/kW-yr) value greater than \$0 but less than or equal to \$50 are recorded in the (0-50] column.

Candidate Deferral Add Info worksheet may be different from the grid needs for the same projects in the Candidate Deferral Projects worksheet. This is because the way grid needs are analyzed for wires solutions is different from DER solutions, as explained below.

SCE's subtransmission system is networked and, therefore, load changes in one area of the network will have effects in other areas of the network. Planning engineers run additional load flow simulations to identify the most effective substation to reduce demand, considering line losses, to mitigate voltage, reactive power, and line thermal violations at the subtransmission level. The Candidate Deferral Add Info sheet presents the demand reduction required at specific substation(s), while the Candidate Deferral Projects sheet shows the magnitude of the violation at the location it is observed (e.g., subtransmission line overload), which is what planners traditionally provide as outputs for the DPP.

A few candidate deferral projects (e.g., DDOR_2022_4800) mitigate grid needs at both the circuit and associated substation level. In these scenarios, meeting the circuit level need may also reduce the substation need if the circuit need and substation need overlap in time. The deficiency information for these types of projects is also represented differently in the Candidate Deferral Add Info sheet from the Candidate Deferral Projects sheet. The Candidate Deferral Projects sheet shows the circuit and substation level needs independently, as an output of the DPP. The Candidate Deferral Add Info sheet shows the result of additional analysis used to calculate the remaining substation need when the more locational-specific circuit level needs are fully met. This additional analysis was performed to provide the most accurate information for DER procurement and to avoid the unnecessary over-procurement of DER.

In parallel to the process of procuring DERs to meet a grid need, SCE must also implement a contingency plan to meet the recommended candidate deferral grid needs if the preferred DER solution is ultimately unable to meet the needs. These contingency plans include project management, design, and engineering tasks to execute the traditional mitigation project in parallel with the DER project. Typical costs related to these activities are approximately 15% of total project cost, which is presented as the contingency plan cost, but can vary widely depending on the project scope, voltage level, and whether it is located within or outside of a substation.

DER operating requirements, which include capacity needs, energy needs, hour of day, time of year, duration, monthly frequency, and yearly frequency, are critical information for a successful deferral. Each candidate deferral need has forecasted hourly profiles developed for each year in the 10-year forecasting horizon for which the DER operating requirements are derived. This forecasted hourly profile assumes that impacts to net demand from the candidate deferral wires project are removed. For the projects that mitigate multiple grid needs, DERs must meet all the grid needs to defer the entire project. Therefore, DER operating requirements are developed for each grid need location of a candidate deferral project. Table 10 shows an example of DER operating requirements presented in SCE's 2022 DDOR.

TABLE 16: DER OPERATING REQUIREMENTS EXAMPLE

Capacity (MW)	Energy Need (MWh)	Season	Monthly Frequency	Yearly Frequency	Year
0.0	0.0	N/A	0	0	2022
0.0	0.0	N/A	0	0	2023
0.0	0.0	N/A	0	0	2024
0.7	1.3	Summer	5	15	2025
0.7	1.3	Summer	5	15	2026
0.6	0.9	Summer	5	15	2027
0.9	1.6	Summer	5	15	2028
1.1	2.3	Summer	5	15	2029
1.4	5.5	Summer	5	15	2030
1.5	6.2	Summer	5	15	2031

8. Pre-Application and Post-Application Projects

SCE utilizes a Project Gate Review Procedure to provide oversight for major projects throughout their lifecycles. This process is composed of review milestone gates that authorize project teams to proceed with licensing and execution activities. If a project requires review pursuant to General Order (GO) 131-D, and licensing activities are internally authorized, these projects are then considered Pre-Application projects. Projects that have been filed with the CPUC as an Application for a Permit to Construct (PTC) or Certificate of Public Convenience and Necessity (CPCN) and are undergoing review pursuant to GO 131-D are considered Post-Application projects. Table 17 lists the Pre-Application and Post-Application projects included in SCE's 2022 DDOR and their approval status.

TABLE 17: PRE-APPLICATION PROJECTS AND POST-APPLICATION PROJECTS INCLUDED IN SCE'S 2022 DDOR

Project ID/ Name	Project Type	Approval Status	DDOR Report
DDOR_2022_4800: Del Valle 66/16 kV Substation	Pre-Application	CAISO: N/A CPUC: Addendum to the developers Environmental Impact Report (AEIR) being discussed, SCE may determine project is exempt from GO 131-D and file an Advice Letter in 2023. SCE: Licensing activities authorized internally in 2015.	Candidate Deferral
DDOR_2022_8256: Cal City Upgrade (Formerly Kramer- Edwards Subtransmission Line)	Pre-Application	CAISO: N/A CPUC: Anticipate PTC filing 2023, estimate approval 2025. SCE: Licensing activities authorized internally in 2019.	Candidate Deferral
DDOR_2022_6092: Alberhill System Project	Post- Application	CAISO: Approval in 2009 CPUC: Certificate of Public Convenience and Necessity (CPCN) under review. CPCN: Estimated approval mid 2024	Candidate Deferral

		SCE: Approval for 3 rd amended filing 2022	
DDOR_2022_6030: Valley-Ivyglen Subtransmission Line	Post- Application	CAISO: N/A CPUC: PTC Issued in 2018 SCE: Construction Complete	Planned Investment

SCE believes these specific projects are distinct from other candidate deferral projects as these projects are subject to review under the California Environmental Quality Act (CEQA) and General Order 131-D. Including projects that are subject to licensing requirements within the DIDF could negatively affect project schedules and costs. Additionally, projects subject to the requirements of a CPCN by the CPUC require a finding of need by the Commission. Projects that have not received a determination of need by the Commission cannot be included in the solicitation.

9. Prioritization Metrics

This Joint Prioritization Metrics Workbook Template was presented to the CPUC on February 26, 2021 and was approved on May 14, 2021. Four minor changes to the workbook were approved on July 7, 2022.

The Joint Prioritization Metrics Workbook Template maintains the three metrics mandated by the 2019 May Ruling: Cost Effectiveness, Forecast Certainty, and Market Assessment. These metrics consist of both quantitative and qualitative sub-metrics. The quantitative sub-metrics are used to score and rank candidate deferral projects. The qualitative sub-metrics utilize engineering judgment and past DER solicitation experience to determine if projects have characteristics that would pose a major challenge for DER deferral.

9.1. Cost Effectiveness Metric

The cost effectiveness metric provides a relative indication of the likelihood of DERs cost effectively deferring the traditional wires solution. The cost effectiveness score utilizes Locational Net Benefit Analysis (LNBA) values calculated using a Commission approved methodology. LNBA values represent the ratio of a project's deferral value to its peak need over the deferral period. The quantitative element of the cost effectiveness metric considers LNBA values according to both the capacity (MW) and energy (MWh) need. Fulfilling both the capacity and energy requirement of a project is critical for successful DER deferral.

For the same project, the magnitude of the energy need can be significantly larger than the magnitude of the capacity need. As a result, the LNBA (\$/MWh-yr) value will typically be smaller than the LNBA (\$/MW-yr) value for a given project. To eliminate any inherent bias due to this magnitude difference when the LNBA (\$/MW-yr) and LNBA (\$/MWh-yr) sub-metrics are combined into a single indicator for cost effectiveness, they are individually normalized to mitigate any unintended bias imposed on the final cost effectiveness score. The smallest LNBA value among all the candidate deferral projects receives a score of 0 and the largest LNBA value in receives a score of 1. Figure 18 illustrates how both normalized LNBA values are summed for each project to represent the final cost-effectiveness score. Generally, higher LNBA values correspond to a higher cost effectiveness score and a higher likelihood of DERs cost effectively deferring a traditional wires solution.

FIGURE 18: COST EFFECTIVENESS SCORE EQUATION

$$\text{Cost Effectiveness Score} = \text{Normalized } (LNBA_{MW-yr}) + \text{Normalized } (LNBA_{MWh-yr})$$

The qualitative component of the cost effectiveness metric flags projects with low estimated costs (\$) ⁷² due to their unlikely ability to be cost effectively deferred by DER. Projects with an estimated cost below a set threshold are flagged and relegated to Tier 3. Some projects may have high LNBA values that make them look like good candidate deferrals, however, it is very difficult for DER to be cost effective in comparison to a low-cost wires solution. The project cost threshold is set according to past DER deferral solicitation experience. SCE did not adopt a flag threshold for SCE's 2022 Prioritization Metrics. SCE plans to further evaluate reasonable flag thresholds, based on DER deferral projects with varying costs within the different procurement pathways, in the future.

The Joint Prioritization Metrics Workbook Template also displays the LNBA (\$/MWh-day) value for each candidate deferral project for informational purposes only.

9.1.1. Locational Net Benefit Analysis

SCE uses a Commission-approved methodology, ⁷³ developed primarily for capacity driven projects, to perform the LNBA calculation based on a 10-year timeframe. For candidate deferral projects driven by reactive power or voltage needs, LNBA values were calculated based on the load reduction needed to mitigate the reactive power or voltage needs ⁷⁴, over the deferral period as originally designed in the methodology. The 2019 May Ruling directed IOUs to calculate LNBA values in terms of both capacity (\$/MW-year) and energy (\$/MWh-year) for candidate deferral projects. When the energy based LNBA values are calculated, SCE uses the maximum annual energy need over the deferral period. The 2020 May Ruling directed IOUs to calculate the LNBA (\$/MWh-day) value for each candidate deferral project and include them for informational purposes in the Joint Prioritization Metrics Workbook template. SCE uses the maximum daily energy need over the deferral period in the calculation for the LNBA (\$/MWh-day) value. This peak-day, energy based LNBA value does not represent the total annual energy that would be required to defer the traditional project and should not be used to evaluate the cost-effectiveness of DER solutions in the competitive solicitation framework.

9.2. Forecast Certainty Metric

The forecast certainty metric provides a relative indication of the likelihood of the grid needs driving a candidate deferral project materializing. The grid need certainty score is the only quantitative component to the forecast

⁷² Project estimated costs are referred to as the Unit Cost of Traditional Mitigation (\$) in the Joint IOU Prioritization Metrics Workbook Template

⁷³ D.17-09-026, *Decision on Track 1 Demonstration Projects A (Integration Capacity Analysis) and B (Locational Net Benefits Analysis) in the Distributed Resource Planning Proceeding*, issued September 28, 2017.

⁷⁴ For non-candidate-deferral planned investments, the LNBA calculation is directly calculated based on reactive power need (\$/MVAR-year) or voltage need (\$/Vpu-year).

certainty metric. Because a single traditional wires solution can be developed to address multiple load growth drivers, the grid need certainty score is the weighted average of the size (MW) and Level of Certainty (LOC) scores of all of the known load projects driving the need for the traditional wires solution. LOC scores are the output of a matrix used by SCE to quantify the status of the known load projects and installation timelines.

Table 18 illustrates the guidelines used in the LOC matrix to generate the LOC score.

TABLE 18: LEVEL OF CERTAINTY MATRIX

	Score	0	1	2	3	Weight
Customer Information	SCE Application for Service	N/A	Received	N/A	N/A	1
	Construction Status	Not Started	Grading	Construction Started/Existing Building	Construction Complete	3
	Low/High Voltage Switchgear	None	Design / Drawings Received	Approved	Authority Having Jurisdiction (AHJ) signoff / Installed on-site	2
	Load Schedule	None	Range Provided but no firm values	Received but not validated	Data Confirmed	1
	Status of Environmental Review or other Regulatory efforts	Not Started	In Progress / Not Required	Filed	Approved	1
SCE Information	Added Facilities	None	Customer Moving Forward	N/A	Added Facilities Agreement Complete	2
	Design Status	Not Started	In Preliminary Design	Final Design Approved	Customer Invoiced	1

To ensure that all prioritization sub-metrics are weighed equally, the grid need certainty score is normalized so the highest score has a value of 1 and the lowest score has a value of 0. However, since the forecast certainty metric has only one quantitative component and the other metrics have two quantitative components the grid need certainty score is scaled up so that the highest forecast certainty score is 2 and the lowest forecast certainty score is 0 (Figure 19). This ensures that the range of scores across all three prioritization metrics are the same and represented equally in the final project ranking.

FIGURE 19: FORECAST CERTAINTY SCORE EQUATION

$$\text{Forecast Certainty Score} = 2 * \text{Normalized} \left(\frac{\sum (\text{Load Growth Demand} \times \text{LOC Score})}{\sum \text{Load Growth Demand}} \right)$$

The qualitative component of forecast certainty is the year of need sub-metric. This sub-metric flags projects that have longer-term needs such that, regardless of the project's forecast certainty score, it is highly likely the grid needs driving the traditional wires solution will change materially before DER implementation. Projects with a year

of need beyond the set threshold would be assigned to Tier 3 and not be recommended for the competitive solicitation framework. SCE did not adopt a flag threshold for SCE's 2022 Prioritization Metrics but will continue to evaluate DER deferral experience with varying project timelines to set a reasonable year of need threshold in the future.

9.3. Market Assessment Metric

The market assessment metric provides a relative indication of the opportunity for DERs to successfully meet the DSR. There are two quantitative and two qualitative components to the market assessment metric.

The first quantitative market assessment sub-metric is the duration of the grid need. Based on experience from previous DER solicitation cycles, the duration of a grid need can significantly impact the feasibility of a DER solution. It is more challenging for DER to provide capacity and energy for an extended period of time.

Previous competitive solicitation cycles also demonstrated that there is more opportunity for DERs to successfully meet a grid need if there is more opportunity to interconnect or enroll customers over a larger geographical area. The capacity needs per affected circuit sub-metric quantitatively approximates the size of the relevant geographic area available for DER implementation. This sub-metric is calculated by dividing the grid need by the number of circuits to which DER can connect to meet the grid need. The more circuits to which a DER can interconnect to meet a given grid need, the greater opportunity there is for DERs to defer the traditional wires solution.

To help ensure all prioritization metrics are weighed equally, the duration and capacity needs per circuit sub-metrics are normalized individually and then summed to produce the market assessment score.

Figure 20 shows how the market assessment score is calculated such that higher scores correspond to greater project deferral viability. This helps to ensure that the ranking of projects according to the market assessment score is consistent with how the other prioritization metrics are ranked.

FIGURE 20: MARKET ASSESSMENT SCORE EQUATION

$$\begin{aligned} \text{Market Assessment Score} &= (1 - \text{Normalized (Duration Score)}) + (1 \\ &\quad - \text{Normalized} \left(\frac{\text{Capacity Needs}}{\text{Number of Affected Circuits}} \right)) \end{aligned}$$

The two qualitative components of the market assessment score are DER operational requirements and the number of grid needs. The DER operational requirement sub-metric assesses if DERs require real time, day ahead, or islanding (operate disconnected from the bulk electric system) operations to meet the specified grid need. Prior competitive solicitation experience has illustrated that DERs are more successful when they are notified day ahead to support distribution reliability needs. Irrespective of its market assessment score, projects with grid needs that require DERs to operate in real time or islanded have low deferral viability. Therefore, projects that fail the DER operational requirement flag threshold are assigned to Tier 3.

The number of grid needs qualitative sub-metric is used to flag projects with a number of grid needs greater than the set threshold. Experience from previous competitive solicitation cycles show that DERs are more successful at

deferring a smaller number of grid needs. Projects that have a number of grid needs greater than the specified threshold are assigned to Tier 3. SCE did not adopt a flag threshold for SCE’s 2022 Prioritization Metrics. SCE will continue to evaluate if a set number of grid needs significantly impacts DER deferral success for specific procurement mechanisms to set future flag thresholds.

9.4. Tiered results

SCE prioritizes candidate deferral projects into three tiers. The Joint Prioritization Metrics Workbook Template quantifies how projects are tiered by assigning a Red-Amber-Green (RAG) score to each project. This method also considers the flags applied to each project. The RAG score is calculated by assigning a +1 score to first quartile projects, a 0 score to second/third quartile projects, and a -1 score to bottom quartile projects across each prioritization metric. Following feedback in the 2021 IPE Post-DPAG Report, the number of projects assigned to the first quartile in each metric is increased by rounding up the top quartile size.⁷⁵ Projects with a total RAG score greater than 0 are assigned to Tier 1, projects with a total RAG score equal to 0 are assigned to Tier 2, and projects with a total RAG score less than 0 or a flag in any one of the prioritization metrics are assigned to Tier 3. Figure 21 shows how the RAG score and qualitative flags are used to determine the final tier of each project.

FIGURE 21: PROJECT RAG SCORE AND TIERING METHODOLOGY

Metric Ranking	RAG Score
Flag	Tier 3
Bottom Quartile	-1
Second/Third Quartile	0
Top Quartile	+1

Total RAG Score	Project Tier
Flag	Tier 3
<0	Tier 3
=0	Tier 2
>0	Tier 1

The RAG scoring methodology ensures that Tier 3 is reserved for projects that are unlikely to be successfully deferred by DERs due to low relative metric scores or qualitative flags based on past DER deferral experience. Tier 2 projects have associated uncertainties regarding their deferral viability and, therefore, may not be appropriate to consider for deferral. Tier 2 projects can have both high and low metric scores, but this does not make them conclusively likely or unlikely to be a successful DER deferral. SCE continues to recommend that only Tier 1 projects move forward for DER deferral consideration.

Projects are also ranked according to the sum of their scores across all three prioritization metrics. This enables SCE to identify the highest ranked projects in each tier.

Per Reform #24 of the 2020 May ALJ Ruling, the forecast certainty scores for the Pre-Application projects, the Del Valle Project and the Cal City Project, are excluded from the final tiering and ranking of the candidate deferral

⁷⁵ 2022 Independent Profession Engineer Post DPAG Report, p. 46

projects. To ensure that the total scores for Pre-Application projects are represented equally in the final tiering and ranking of the candidate deferral projects, their total scores are weighted at 150%.

Table 19 lists the tiered results of SCE's 2022 candidate deferral projects. In the table, cells are colored green if the project scores within the top quartile for the given metric column. Cells are colored amber if the project scores within the top second/third quartile. Finally, cells are colored red if they score in the bottom quartile.

In the table, the nine newly identified candidate deferral projects after SCE's Partial 2022 DDOR Filing are highlighted in light blue, with two projects ranked in Tier 1, three in Tier 2, and four in Tier 3.

TABLE 19: SCE'S 2022 CANDIDATE DEFERRAL PROJECT SUMMARY

Tier	Project Description	Cost Effectiveness	Forecast Certainty	Market Assessment	Flags
1	Rebuild Saugus-Haskell 66 kV Subtransmission Line	3	1	4	
	Rebuild Mesa-Narrows 66 kV Subtransmission Line	1	21	2	
	Install a New 12kV Circuit at Triton 115/12 kV Substation	11	2	8	
	Rebuild Santa Clara-Colonia 66 kV Subtransmission Line	10	4	16	
	Install a New 12 kV Circuit at Irvine 66/12 kV Substation	8	6	10	
	Install a New Transformer at Alessandro 115/33 kV Substation	12	12	3	
	Install a New 16 kV Circuit at Bullis 66/16 kV Substation	4	14	11	
	Install Rector-Riverway No. 2 66 kV Subtransmission Line	7	9	14	
	Rebuild Elizabeth Lake-Pitchgen 66 kV Subtransmission Line	13	11	6	
2	Install a New 16 kV Circuit at Elizabeth Lake 66/16 kV Substation	9	7	15	
	Upgrade Transformers at North Oaks 66/16 kV Substation	24	8	7	
	Reconfigure Browning - Delano 66 kV Subtransmission Line	18	5	21	
	Install a New Transformer at Mira Loma 66/12 kV Substation	19	19	5	
	Install a New 12 kV Circuit at Bloomington 66/12 kV Substation	17	14	13	
	Install a New 12kV Circuit at Chase 66/12 kV Substation	16	17	17	
	Cal City Project: Construct a New 115/12 kV Substation and Construct New 115 kV Subtransmission Lines	2		25	
	Del Valle Project: Construct a New 66/16 kV Substation and Construct New 16 kV Circuits	6		24	
3	Alberhill System Project: Construct a New 500/115 kV Substation and associated 500 kV source lines and 115 kV lines	5	18	9	FLAG
	Construct a New 16 kV Circuit at Gonzales 66/16 kV Substation	23	3	22	
	Increase Sunnyside 66/12 kV Substation by Eliminating Limiting Components	22	20	1	
	Install a New 16 kV Circuit at Saugus 66/16 kV Substation	20	13	18	
	Install a New 12 kV Circuit at Talbert 66/12 kV Substation	14	14	20	
	Upgrade Transformer and Construct a New 12kV Circuit at Valley 115/12 kV Substation	21	22	12	
	Install a New Capacitor at Devers 220/115 kV Substation	25	10	23	
	Install a New 12 kV Circuit at Bain 66/12 kV Substation	15	23	19	

9.5. Additional Considerations for Pre-Application and Post-Application Projects

This year, in its DIDF analyses for the Alberhill System Project (ASP), SCE updated its methodology to represent the capacity threshold that reflects the appropriate capacity needs independent of what type of solution may be implemented (e.g., DER-based alternatives or substation-based alternatives). The revised methodology reflects the rating of the Valley 'EFG' 500/115 kV Substation by acknowledging that the temporary measures put in place by SCE to provide capacity to the Valley South System should not be included in planning the electrical needs area. The appropriate emergency condition rating of the Valley 'EFG' 500/115 kV Substation results in increased capacity overloads and contributes to the lower ranking of ASP in SCE's 2022 Joint Prioritization Metrics Workbook Template.

SCE believes that this ranking better reflects the deferral viability of ASP. In order to meet the objectives of the project, DERs would have to create operational flexibility and maintain system reliability during outage scenarios in a manner equivalent to the performance of the ASP, which, for DERs, would include operating in an islanded fashion. As a result, the ASP project was flagged for its operational requirements and assigned to Tier 3.

The Cal City Project and Del Valle Project are ranked in Tier 2 and are not recommended for solicitation. It is worth noting that the surrounding areas of both projects lack existing electrical infrastructure necessary to address the project needs through DER solutions.

10. IDER Pilot Selection

IDER D. 21-02-006 established two pilots to supplement the existing DIDF RFO framework. During each DIDF annual cycle, IOUs are required to propose at least three deferral opportunities for the Partnership Pilot and at least one Tier 1 deferral opportunity for the SOC Pilot. The two pilots utilize the Prioritization Metrics framework and additional selection criteria, as discussed below, to determine the candidate deferral projects for each pilot. The Partnership Pilot selection criteria rank candidate deferral projects according to the available opportunities for customer enrollment in BTM DER programs. The SOC Pilot selection criteria rank candidate deferral projects according to land availability near the affected circuitry given its focus on IFOM DER.

10.1. Partnership Pilot

The Partnership Pilot involves a tiered payment structure paid to BTM DER aggregators to dispatch/implement DERs according to grid needs. As part of the pilot, SCE will contract with various Energy Solutions Providers/Aggregators that have passed an eligibility prescreening process, successfully submitted and received approval for a reservation request for a specific deferral project with SCE customers and met the designated capacity goal, to help homes or businesses better manage their energy use through a variety of non-carbon-emitting clean energy solutions. SCE customers will enroll with authorized aggregators and contract DER services directly from these aggregators based on the individual agreements with the DER providers to implement DER solutions while leveraging existing DER programs or special tariffs such as Net Energy Metering (e.g., the storage system that is paired with the solar), the Self Generation Incentive Program (e.g., Energy Storage), Demand Response, and Energy Efficiency to help meet grid needs in specific geographical areas identified in the DPP.

To address the challenge of changing distribution system needs and risk of over and under procurement, the pilot allows for Ratable Procurement, whereby utilities can procure incremental capacity each year to defer long term needs, broken down by specific periods of time, depending on the grid need.

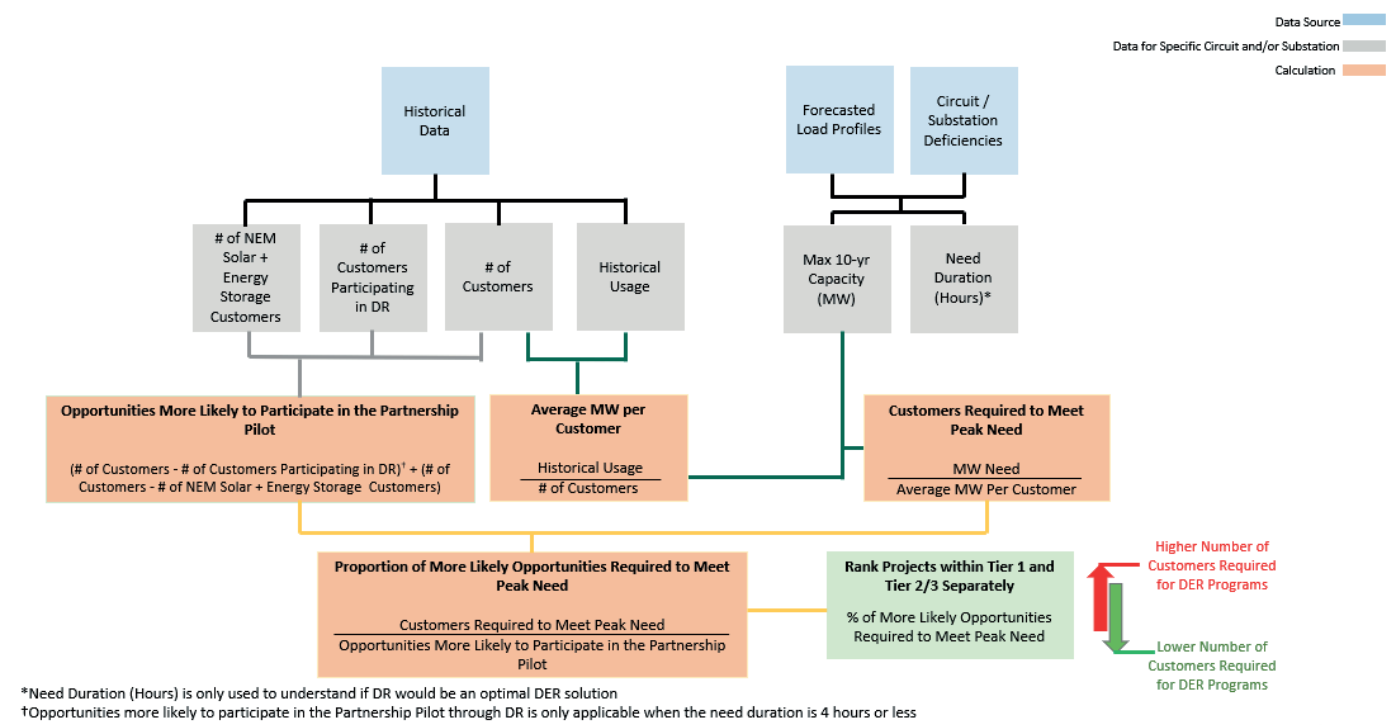
10.1.1. Partnership Pilot Selection Methodology

Based on the tiered results from the Prioritization Metrics framework, SCE further selects candidates for the Partnership Pilot by estimating the proportion of available customers that would be required to participate in BTM DER opportunities to successfully defer the project need. SCE considers that the likelihood of successful deferral increases as the customers required to participate in the Partnership Pilot decrease. In line with feedback from SCE's 2021 DPAG presentation, SCE's Partnership Pilot selection methodology does not count customers enrolled in NEM

solar + energy storage and customers enrolled in demand response⁷⁶ programs in the total customer count because these customers are less likely to upgrade their system or to further adjust their energy consumptions⁷⁷ in order to support the mitigation of identified grid needs through the Partnership Pilot.

SCE ranks and selects Tier 1 projects separately from Tier 2 and Tier 3 projects based on their performance in SCE’s Partnership Pilot selection criteria methodology. SCE’s Partnership Pilot candidate selection methodology is presented in Figure 22.

FIGURE 22: PARTNERSHIP PILOT PROGRAM METHODOLOGY FLOW CHART



For each candidate deferral project, an Average MW per Customer metric, which provides the average historic demand each customer contributes to the forecasted peak need period, is first calculated based on total number of customers and historic customer usage. Then the Customers Required to Meet Peak Need, which estimates the required number of customers to meet the forecasted peak need, is calculated based on the peak capacity needs and the previously calculated Average MW per Customer metric. The Opportunities More Likely to Participate in the Partnership Pilot metric, which provides an indication of how many BTM DER opportunities are available to customers to meet grid needs through the Partnership Pilot, is then calculated based on the number of customers

⁷⁶ Only for needs less than 4 hours.

⁷⁷ These customers’ existing DER contribution to the net demand has been included in the planning assumption and the resulted grid deficiencies driving the wires solution already assume their DER contribution. These customers will need additional DER contribution to satisfy the deferral objective.

participating in NEM solar + energy storage programs, the number of customers participating in DR programs, and the total number of customers. Lastly, the Proportion of More Likely Opportunities Required to Meet Peak Need can then be calculated to provide an indication of the number of customers, not already participating in a NEM solar + energy storage or DR program, that would be required to enroll in BTM DER programs to meet the grid need and defer the wires solution. The lower the number of customers required to enroll in DER programs, the higher the ranking of the project.

10.1.2. Partnership Pilot Selection Results

The results of the analyses and ranking of the deferral opportunities are shown in Table 20 and Table 21 below.

TABLE 20: TIER 1 PARTNERSHIP PILOT PROGRAM RANKING DETAILS

Project Description	DSR	Operating Date	Max 10 Year Deficiency (MW)	PP Ranking
Rebuild Mesa-Narrows 66 kV Subtransmission Line	Reliability, Capacity	2025	1.5	1
Install a New Transformer at Alessandro 115/33 kV Substation	Capacity	2025	2.0	2
Rebuild Saugus-Haskell 66 kV Subtransmission Line	Reliability, Capacity	2026	4.0	3
Rebuild Elizabeth Lake-Pitchgen 66 kV Subtransmission Line	Reliability, Capacity	2026	13.2	4
Install a New 16 kV Circuit at Bullis 66/16 kV Substation	Capacity	2025	2.8	5
Rebuild Santa Clara-Colonia 66 kV Subtransmission Line	Reliability, Capacity	2026	21.9	6
Install Rector-Riverway No. 2 66 kV Subtransmission Line	Reliability, Capacity	2026	21.0	7
Install a New 12 kV Circuit at Irvine 66/12 kV Substation	Capacity	2025	3.4	8
Install a New 12kV Circuit at Triton 115/12 kV Substation	Capacity	2026	3.7	9

TABLE 21: TIER 2 AND 3 PARTNERSHIP PILOT PROGRAM RANKING DETAILS

Project Description	Tier	DSR	Operating Date	Max 10 Year Deficiency (MW)	PP Ranking
Increase Sunnyside 66/12 kV Substation by Eliminating Limiting Components	3	Capacity	2026	1.0	1
Install a New Transformer at Mira Loma 66/12 kV Substation	2	Capacity	2025	8.4	2
Install a New 12kV Circuit at Chase 66/12 kV Substation	2	Capacity	2025	3.6	3
Upgrade Transformers at North Oaks 66/16 kV Substation	2	Capacity	2025	21.1	4
Install a New 12 kV Circuit at Bloomington 66/12 kV Substation	2	Capacity	2025	5.7	5
Install a New 16 kV Circuit at Elizabeth Lake 66/16 kV Substation	2	Capacity	2026	5.6	6
Alberhill System Project: Construct a New 500/115 kV Substation and associated 500 kV source lines and 115 kV lines	3	Capacity	2029	286.3	7
Reconfigure Browning - Delano 66 kV Subtransmission Line	2	Reliability, Voltage	2025	8.5	8
Upgrade Transformer and Construct a New 12kV Circuit at Valley 115/12 kV Substation	3	Capacity	2025	15.7	9
Install a New 12 kV Circuit at Talbert 66/12 kV Substation	3	Capacity	2025	4.6	10
Install a New 12 kV Circuit at Bain 66/12 kV Substation	3	Capacity	2025	4.7	11
Install a New 16 kV Circuit at Saugus 66/16 kV Substation	3	Capacity	2026	16.2	12
Construct a New 16 kV Circuit at Gonzales 66/16 kV Substation	3	Capacity	2025	16.8	13
Install a New Capacitor at Devers 220/115 kV Substation	3	Reactive Power	2026	70.0	14
Cal City Project: Construct a New 115/12 kV Substation and Construct New 115 kV Subtransmission Lines	2	Capacity	2028	80.7	15
Del Valle Project: Construct a New 66/16 kV Substation and Construct New 16 kV Circuits	2	Capacity	2027	55.3	16

10.2. Standard Offer Contract Pilot

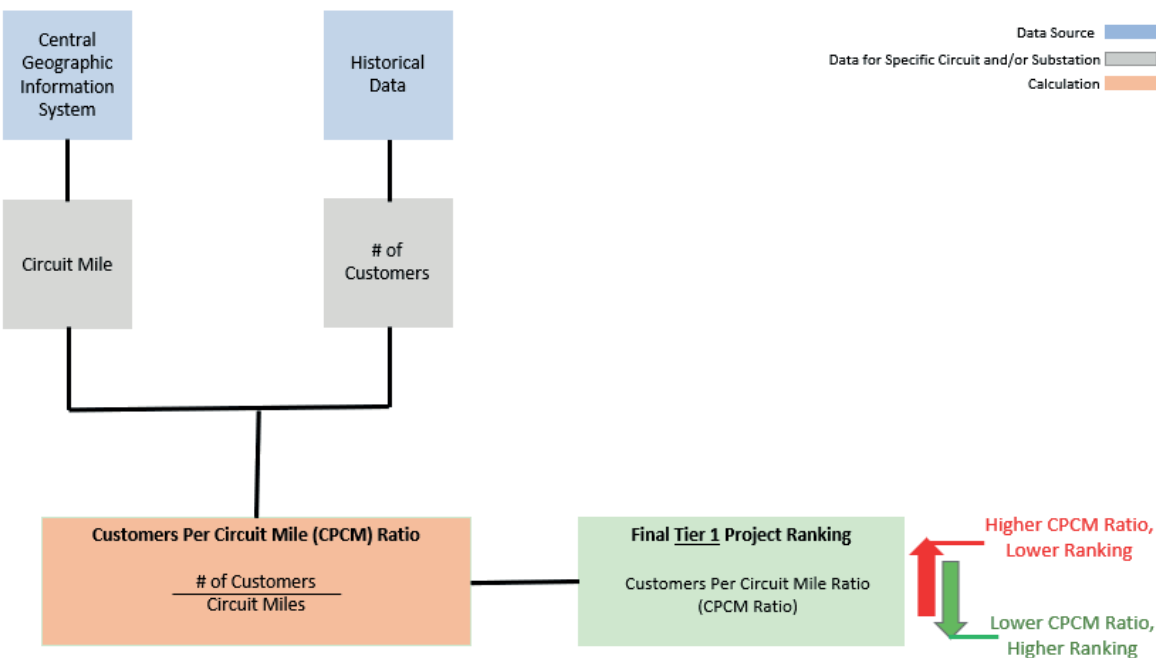
Within the SOC pilot, IOUs solicit IFOM DERs to defer traditional wires solutions. The solicitation is accomplished by publishing a price sheet for the deferral project(s) where respondents can submit offers at or below the indicated price.

10.2.1. Standard Offer Contract Pilot Selection Methodology

SCE’s criteria for selecting a deferral opportunity for SOC pilot is based on available land near the distribution assets with a forecasted need. SCE utilizes length of circuits and number of customers served to calculate a Customers Per Circuit Mile (CPCM) Ratio, as an indicator of the customer density and therefore potential open land to install IFOM DER.

SCE ranks its Tier 1 candidate deferral projects using the CPCM ratio and then select higher ranking project(s) for the SOC pilot. Details of SCE’s standard offer contract pilot selection methodology is shown in Figure 23.

FIGURE 23: STANDARD OFFER CONTRACT PILOT PROGRAM METHODOLOGY FLOW CHART



For Tier 1 projects, the circuit length and customer counts served from the impacted circuit(s)/substation(s) are gathered to calculate the CPCM ratio of the project. The lower the CPCM ratio represents more open land opportunities for IFOM DER resulting in the project ranking higher.

10.2.2. Standard Offer Contract Pilot Results

The results of the analyses and ranking of the deferral opportunities can be seen in the Table 22 below.

TABLE 22: STANDARD OFFER CONTRACT PILOT PROGRAM RANKING DETAILS

Project Description	DSR	Operating Date	Max 10 Year Deficiency (MW)	SOC Ranking
Install a New Transformer at Alessandro 115/33 kV Substation	Capacity	2025	2.0	1
Rebuild Elizabeth Lake-Pitchgen 66 kV Subtransmission Line	Reliability, Capacity	2026	13.2	2
Rebuild Santa Clara-Colonia 66 kV Subtransmission Line	Reliability, Capacity	2026	21.9	3
Install a New 12kV Circuit at Triton 115/12 kV Substation	Capacity	2026	3.7	4
Rebuild Mesa-Narrows 66 kV Subtransmission Line	Reliability, Capacity	2025	1.5	5
Install a New 16 kV Circuit at Bullis 66/16 kV Substation	Capacity	2025	2.8	6
Rebuild Saugus-Haskell 66 kV Subtransmission Line	Reliability, Capacity	2026	4.0	7
Install Rector-Riverway No. 2 66 kV Subtransmission Line	Reliability, Capacity	2026	21.0	8
Install a New 12 kV Circuit at Irvine 66/12 kV Substation	Capacity	2025	3.4	9

11. Solicitation Recommendations

Based on the prioritization metrics framework, SCE identifies the Tier designation for each candidate deferral project, and then utilizes the Partnership pilot selection methodology and SOC Pilot selection methodology to determine each project's likelihood of success in different pilots. Table 23 summarizes SCE's project recommendation for different solicitation programs with the consideration of various factors including but not limited to pilot selection results, ongoing solicitation, existing DERs in the associated area. New projects not included in the Partial 2022 DDOR Filing are indicated in **bold**.

TABLE 23: SCE'S RECOMMENDATION FOR DER SOLICITATIONS

Project	Tier	Operating Date	Max 10 Year Deficiency (MW)	Recommendation
Rebuild Saugus-Haskell 66 kV Subtransmission Line	1	2026	4.0	Partnership Pilot
Rebuild Mesa-Narrows 66 kV Subtransmission Line	1	2025	1.5	IOU-Owned DER
Install a New 12kV Circuit at Triton 115/12 kV Substation	1	2026	3.7	DIDF RFO
Rebuild Santa Clara-Colonia 66 kV Subtransmission Line	1	2026	21.9	In 2021-2022 Partnership Pilot
Install a New 12 kV Circuit at Irvine 66/12 kV Substation	1	2025	3.4	IOU-Owned DER
Install a New Transformer at Alessandro 115/33 kV Substation	1	2025	2.0	SOC Pilot
Install a New 16 kV Circuit at Bullis 66/16 kV Substation	1	2025	2.8	Partnership Pilot
Install Rector-Riverway No. 2 66 kV Subtransmission Line	1	2026	21.0	Partnership Pilot
Rebuild Elizabeth Lake-Pitchgen 66 kV Subtransmission Line	1	2026	13.2	Can be deferred by Existing DIDF DER project
Upgrade Transformers at North Oaks 66/16 kV Substation	2	2025	21.1	Partnership Pilot
Install a New Transformer at Mira Loma 66/12 kV Substation	2	2025	8.39	IOU-Owned DER

Standard Offer Contract Pilot:

The *Install a New Transformer at Alessandro Substation* project is the highest-ranking Tier 1 project according to the SOC pilot selection methodology and was recommended for the SOC pilot, which was launched on September 15, 2022 and is currently in the final stage of the offer selection process.

Partnership Pilot:

SCE filed a Tier 2 AL seeking approval to launch the Partnership Pilot on November 15, 2022⁷⁸ and received AL 4905-E Disposition Letter with Commission's approval on December 20, 2022⁷⁹. Within the approved AL, SCE recommended three candidate deferral projects for the Partnership Pilot whose subscription periods will open on January 19, 2023.

- The *Saugus-Haskell 66kV Subtransmission Line Rebuild* Project is the third highest ranking Tier 1 project for Partnership Pilot, after the *Install a New Transformer at Alessandro Substation* project, recommended for SOC pilot, and the *Rebuild Mesa-Narrows 66 kV Subtransmission Line* project that can be cost-effectively deferred by SCE owned BESS.
- The *New Rector-Riverway No. 2 66kV Subtransmission Line* Project, which was a Tier 2 project in the September 2 filing, but moved up to Tier 1 after the prioritization is updated for the new candidate deferral project list. This project was recommended by the IPE and DPAG stakeholders.
- The *Upgrade Transformers at North Oaks Substation* Project, which was a Tier 3 project in the September 2 filing, but moved up to Tier 2 after the prioritization is updated for the new candidate deferral project list.

SCE also recommends the newly identified *Install a New 16 kV Circuit at Bullis 66/16 kV Substation* project for Partnership Pilot, which ranks at No. 5 among the 9 Tier 1 candidate deferral projects, according to the Partnership Pilot selection criteria. SCE is submitting an Advice Letter seeking approval to launch the tariff subscription period for this project on January 13, 2023.

DIDF Request for Offer:

SCE recommended the *Install a New 12 kV Circuit at Triton Substation* project for DIDF RFO. This project is the 3rd highest ranking Tier 1 project according to the prioritization metrics framework, right after the *Rebuild Mesa-Narrows 66 kV Subtransmission Line* project that can be cost-effectively deferred by SCE owned BESS and the *Install a New Transformer at Alessandro 115/33 kV Substation* project that was recommended for SOC pilot. The DIDF RFO was launched on September 15, 2022 and is currently in the final stage of the offer selection process.

SCE Owned DERs:

The *Rebuild Mesa-Narrows 66 kV Subtransmission Line* project was previously deferred by SCE owned and operated BESS projects: Mercury 1 and Mercury 2 as introduced in Section 7.3. Mercury 1 is a 3.0 MW / 9.00 MWh system on the Yorktown 12 kV circuit with a target operational date of 2023; Mercury 2 is a 3.5 MW / 8.75 MWh system on the Cadillac 12 kV circuit with a target operational date of 2023. However, load growth in the area results in additional capacity needs and drives the need for this project again. SCE has determined that the existing Mercury 1 equipment

⁷⁸ "Southern California Edison Company's Request for Approval to Launch the 2023 Partnership Pilot," Advice 4905-E, Nov. 15, 2022.

⁷⁹ CPUC Disposition Letter, Acceptance Effective Dec. 15, 2022, of Advice Letter 4905-E, Southern California Edison Company's Request for Approval to Launch the 2023 Partnership Pilot, Nov. 15, 2022.

can be utilized to increase the power rating from 3.0 MW to 3.5 MW with software configuration changes. This change can ensure the continuous deferral of this subtransmission line rebuild project from 2025 to 2028.

The *Install a New Transformer at Mira Loma Substation* project is Tier 2 project can be deferred out of the 10-year planning horizon by an existing SCE owned and operated BESS connected at the project need location.

The *Install a New 12 kV Circuit at Irvine 66/12 kV Substation* project is a newly identified Tier 1 candidate deferral project from the DPP update. SCE is exploring IOU owned DER solutions to defer this project. This new circuit project is not a good candidate for either SOC or Partnership Pilot due to its low ranking according to the pilot selection methodologies (i.e., the lowest ranking project for SOC, the penultimate ranking Tier 1 project for PP). In addition, the project’s operating date of 2025 makes it likely infeasible for DER developers to go through the RFO process (e.g., complete interconnection study, gain Resource Adequacy eligibility) and to have the DERs installed on time.

Finally, although, this project has relatively small needs that could qualify potential DER solutions for faster interconnection processes such as the WDAT Fast Track Process or Independent Study Process, this will impact the cost effectiveness of the DER solutions because DER projects using these processes will not receive deliverability from CAISO. Based on this assessment of all the standard DIDF solicitation options, SCE is currently exploring IOU-owned DER solutions including utility-owned mobile energy storage solutions to defer this new circuit project. IOU-owned DER solutions could potentially alleviate the limitations third-party DER solutions have and result in a successful deferral for some challenging projects.

Other Projects:

The two remaining Tier 1 projects are either in the ongoing solicitation or can be potentially deferred by an existing DIDF DER project, therefore, SCE does not recommend these two projects for additional solicitations this year:

The *Rebuild Santa Clara-Colonia 66 kV Subtransmission Line* project is currently in Tranche 1 of the Partnership Pilot launched in January 2022. The subscription period for this project, which runs from January 18, 2022 to December 1, 2024, is ongoing.

SCE is currently exploring whether a previously procured DER project can be leveraged to meet the need of the *Rebuild Elizabeth Lake-Pitchgen 66 kV Subtransmission Line* project.

11.1. Partnership Pilot Project Table and Definitions

Table 24 to Table 26 present the procurement and tariff budget parameters of the recommended Partnership Pilot projects that were included in Advice Letter 4905-E, filed on November 15, 2022, and approved by the Commission with an effective date of December 15, 2022. Table 27 presents the procurement and tariff budget parameters of the newly identified *Install a New 16 kV Circuit at Bullis 66/16 kV Substation* project recommendation. SCE notes that the procurement goals may be updated annually, so while the Tranche 1 parameters were finalized in the November 15 advice letter, subsequent tranches may be updated in future procurement cycles if the grid need associated with planned investment change.

**TABLE 24: REBUILD SAUGUS-HASKELL 66 kV SUBTRANSMISSION LINE PROJECT PROCUREMENT AND TARIFF BUDGET
PARAMETERS
(ORIGINAL PAYMENT DESIGN)**

Tranche	Tranche Procurement Goal (Capacity - MW)	Tranche Procurement Goal (Energy - MWh)	Subscription Period Launch Date	Subscription Period End Date	Operating Date
1	3.4	5.9	1/19/2023	12/1/2024	6/1/2026
2	1.7	2.1	≈1/15/2025	12/1/2025	6/1/2027
3	3.3	6.1	≈1/15/2026	12/1/2026	6/1/2028
4	3.5	6.5	≈1/15/2027	12/1/2027	6/1/2029
5	3.8	7.5	≈1/19/2028	12/1/2028	6/1/2030
6	4.0	8.1	≈1/17/2029	12/1/2029	6/1/2031
Tranche	Deferral Value	Tariff Budget	Deployment Budget	Reservation Budget	Performance Budget
1	\$1,138,702	\$967,897	\$193,579	\$290,369	\$483,948
2	\$1,166,804	\$991,784	\$198,357	\$297,535	\$495,892
3	\$1,195,600	\$1,016,260	\$203,252	\$304,878	\$508,130
4	\$1,225,106	\$1,041,340	\$208,268	\$312,402	\$550,676
5	\$1,255,341	\$1,067,040	\$213,408	\$320,112	\$533,520
6	\$1,286,322	\$1,093,373	\$218,675	\$328,012	\$546,687

**TABLE 25: NEW RECTOR-RIVERWAY NO. 2 66 kV SUBTRANSMISSION LINE PROJECT PROCUREMENT AND TARIFF BUDGET
PARAMETERS
(ORIGINAL PAYMENT DESIGN)**

Tranche	Tranche Procurement Goal (Capacity - MW)	Tranche Procurement Goal (Energy - MWh)	Subscription Period Launch Date	Subscription Period End Date	Operating Date
1	19.0	102.8	1/19/2023	12/1/2024	6/1/2026
2	19.0	105.4	≈1/15/2025	12/1/2025	6/1/2027
3	19.0	109.2	≈1/15/2026	12/1/2026	6/1/2028
4	19.5	111.9	≈1/15/2027	12/1/2027	6/1/2029
5	20.0	117.7	≈1/19/2028	12/1/2028	6/1/2030
6	21.0	128.7	≈1/17/2029	12/1/2029	6/1/2031
Tranche	Deferral Value	Tariff Budget	Deployment Budget	Reservation Budget	Performance Budget
1	\$4,341,099	\$3,689,934	\$737,987	\$1,106,980	\$1,844,967
2	\$4,448,233	\$3,780,998	\$756,200	\$1,134,299	\$1,890,499
3	\$4,558,012	\$3,874,310	\$774,862	\$1,162,293	\$1,937,155
4	\$4,670,500	\$3,969,925	\$793,985	\$1,190,977	\$1,984,962
5	\$4,785,763	\$4,067,899	\$813,580	\$1,220,370	\$2,033,949
6	\$4,903,872	\$4,168,291	\$833,658	\$1,250,487	\$2,084,146

**TABLE 26: UPGRADE TRANSFORMERS AT NORTH OAKS SUBSTATION PROJECT PROCUREMENT AND TARIFF BUDGET PARAMETERS
(PROPORTIONAL SMOOTHING PAYMENT DESIGN)**

Tranche	Tranche Procurement Goal (Capacity - MW)	Tranche Procurement Goal (Energy - MWh)	Subscription Period Launch Date	Subscription Period End Date	Operating Date
1	13.0	51.5	1/19/2023	12/1/2023	6/1/2025
2	14.0	50.9	≈1/17/2024	12/1/2024	6/1/2026
3	19.3	82.6	≈1/15/2025	12/1/2025	6/1/2027
4	19.6	93.0	≈1/15/2026	12/1/2026	6/1/2028
5	20.1	88.2	≈1/15/2027	12/1/2027	6/1/2029
6	20.6	102.8	≈1/19/2028	12/1/2028	6/1/2030
7	21.1	107.2	≈1/17/2029	12/1/2029	6/1/2031
Tranche	Deferral Value	Tariff Budget	Deployment Budget	Reservation Budget	Performance Budget
1	\$567,684	\$246,493	\$49,299	\$73,948	\$123,246
2	\$581,694	\$267,983	\$53,597	\$80,395	\$133,992
3	\$596,050	\$478,369	\$95,674	\$143,511	\$239,184
4	\$610,760	\$592,459	\$118,492	\$177,738	\$296,229
5	\$625,833	\$618,068	\$123,614	\$185,420	\$309,034
6	\$641,278	\$792,417	\$158,483	\$237,725	\$396,208
7	\$657,104	\$908,967	\$181,793	\$272,690	\$454,483

**TABLE 27: NEWLY IDENTIFIED RECOMMENDATION: INSTALL A NEW 16 kV CIRCUIT AT BULLIS 66/16 kV SUBSTATION
PROJECT PROCUREMENT AND TARIFF BUDGET PARAMETERS
(ORIGINAL PAYMENT DESIGN)**

Tranche	Tranche Procurement Goal (Capacity - MW)	Tranche Procurement Goal (Energy - MWh)	Subscription Period Launch Date	Subscription Period End Date	Operating Date
1	2.6	13.8	≈3/16/2023	12/1/2023	6/1/2025
2	2.6	13.6	≈1/17/2024	12/1/2024	6/1/2026
3	2.5	13.0	≈1/15/2025	12/1/2025	6/1/2027
4	2.5	12.8	≈1/15/2026	12/1/2026	6/1/2028
5	2.5	12.7	≈1/15/2027	12/1/2027	6/1/2029
6	2.5	14.1	≈1/19/2028	12/1/2028	6/1/2030
7	2.5	14.4	≈1/17/2029	12/1/2029	6/1/2031
Tranche	Deferral Value	Tariff Budget	Deployment Budget	Reservation Budget	Performance Budget
1	\$872,788	\$741,869	\$148,374	\$222,561	\$370,935
2	\$894,327	\$760,178	\$152,036	\$228,053	\$380,089
3	\$916,398	\$778,939	\$155,788	\$233,682	\$389,469
4	\$939,014	\$798,162	\$159,632	\$239,449	\$399,081
5	\$962,188	\$817,860	\$163,572	\$245,358	\$408,930
6	\$985,934	\$838,044	\$167,609	\$251,413	\$419,022
7	\$1,010,266	\$858,726	\$171,745	\$257,618	\$429,363

For ease of reference, the columns in the table are explained according to the definitions below.

- **Tranche-** Procurement efforts needed to defer the planned investment for its full deferral term.
- **Tranche Procurement Goal (Capacity)-** The forecasted peak capacity (MW) procurement need for the specified tranche of distribution deferral services SCE must receive to defer the planned investment for one tranche.
- **Tranche Procurement Goal (Energy)-** The total forecasted energy need (MWh) in the specified tranche that corresponds to the Amount of Capacity to be Procured.
- **Subscription Period Launch Date-** The date SCE will open the subscription period for a specific project, when aggregators or energy solutions providers may begin submitting Offer Reservations for all or part of the procurement need.

- **Contingency Date/Subscription Period End Date-** The date SCE will end the subscription period and no longer attempt to procure DERs for the associated project if the total amount of capacity/energy to be procured has not been met. If the procurement need has not been met prior to the Contingency Date, SCE will move forward with the planned investment.
- **Operating Date-** The date (day, month, year) by which the traditional planned investment would need to be operational by.
- **Deferral Value (Cost Cap)-** The real economic carrying charge of deferring the revenue requirement associated with the traditional capital investment for one associated procurement tranche. This is expressed in nominal dollars.
- **Tariff Budget-** The total budget in nominal dollars that SCE can allocate to aggregators under each Partnership Pilot project. If the Original method is applied, it is equal to 85% of the deferral value (cost cap). If the Proportional Smoothing is applied, 85% is applied to the cumulative deferral value in present value dollars.
- **Deployment Payment Budget-** The budget SCE can allocate amongst the aggregators for deploying a new DER under a Partnership Pilot project. Only new DER deployments are eligible to receive this payment. It is equal to 20% of the Tariff Budget.
- **Reservation Payment Budget-** The budget SCE can allocate amongst the aggregators for reserving a DER for dispatch under a Partnership Pilot project. It is equal to 30% of the Tariff Budget.
- **Performance Payment Budget-** The budget SCE can allocate amongst the aggregators for dispatching a DER under a Partnership Pilot project. Performance payments are only paid to aggregators who dispatch DERs according to contracted grid needs, and upon that DERs' performance. It is equal to 50% of the Tariff Budget.

SCE has opted to pilot two types of tranche payment design approaches to gain additional insight around which approach is most successful: SCE's "Proportional Smoothing" approach and the "Original" approach outlined in the Energy Division Staff proposal.

SCE introduced the Proportional Smoothing approach because the original ratable procurement process in the Staff Proposal introduces potential variation in incentive payments per kWh. To avoid disincentivizing customers from leaving the pilot as their available earnings decrease each year, SCE developed the Proportional Smoothing methodology, which proportionally allocates the tariff budget according to the associated energy needs of each tranche.

Table 28 illustrates the difference between the two methodologies. This data represents a common occurrence whereby as energy needs increase over time, the tariff budget present value decreases over time. It is assumed that more participating customers are needed to meet a 1.25 MWh need than a 1 MWh need, and so forth. Under the Original Approach proposed by Staff, a smaller budget in Year 3 would need to meet a larger need, thereby making Year 3 pricing on a per kW basis less attractive to aggregators and customers compared to Year 1, therefore increasing the risk that participants leave the pilot. Under SCE's recommended Proportional Smoothing approach, the available budget present value increases or decreases exactly in line with the need change, making the budget per customer or budget per kW consistent across all deferral years.

TABLE 28: ILLUSTRATIVE EXAMPLE OF TRANCHE PAYMENT DESIGN APPROACHES

Year	MWh Need	Budget Per Customer?	
		Original Approach	Proportional Smoothing
1	1 MWh	\$100	\$72
2	1.25 MWh	\$90	\$90
3	1.5 MWh	\$80	\$108

While SCE believes the Proportional Smoothing approach is likely preferable to both aggregators and end customers, it is prudent to test out both approaches to glean learnings. Therefore, SCE recommends utilizing the Proportional Smoothing approach for one of the three Partnership Pilot projects to be launched on January 19, 2023, the *Upgrade Transformers at North Oaks Substation*. SCE believes that the Proportional Smoothing approach is the preferred approach for projects with capacity needs that generally increase over time, while the deferral value decreases or remains relatively constant. Of the three Partnership Pilot projects to be launched on January 19, 2023, SCE recommends that the *Rebuild Saugus-Haskell 66 kV Subtransmission Line* and the *New Rector-Riverway No.2 66 kV Subtransmission Line* project utilize the Original Approach because their energy needs slightly increase over time or run fairly smooth, resulting in the smallest decrease in tariff budget among the three projects.

The newly recommended *Install a New 16 kV Circuit at Bullis 66/16 kV Substation Project*, which is expected to be launched on March 16, 2023, is utilizing the Original Approach because the energy needs run fairly smoothly throughout the tranches.

12. Contingency Plans

SCE must establish contingency plans to address system needs in the event the preferred DER solution is unable to meet the need. The contingency planning occurs after a DER solution or a portfolio of DERs have been selected, either through a competitive solicitation or is utility owned. D.18-02-004 states the IOUs, in consultation with the DPAG, are responsible for contingency plans.⁸⁰ Two main scenarios, as shown in Table 29 may occur throughout the DER project lifecycle where SCE must implement a contingency plan to ensure the safe and reliable delivery of power to customers. The specific contingency solution will depend on timing of grid needs and the lead time to implement those solutions.

⁸⁰ D.18-02-004, at pp.87-88, Ordering Paragraph No. 2.x.

TABLE 29: SUMMARY OF CONTINGENCY PLAN

Scenario	Contingency Plan
DER provider is unable to install DERs according to contract	• Develop short lead time mitigation alternatives that supplement the DER portfolio for total solution, where feasible
SCE is unable to install DERs to meet the grid need	• If cost-effective solution does not exist, pursue construction of traditional project intended for deferral or short lead time mitigation until ultimate solution can be implemented
DER fails during commissioning, or underperforms during operations and doesn't meet real-time needs of the electric system (based on commissioning and performance verification protocols agreed to in the contract for 3 rd party owned DERs)	• Determine emergency limitations if applicable, work with system operations on potential temporary grid reconfiguration, or in worst cases potentially drop load and de-energize customers • Determine reason for DER underperformance • Assess any equipment damage or outage impact • Assess if additional mitigation is required and develop expedited solution options

There may be other scenarios that occur where DER developers are unable to meet contract obligations. In some cases related to the DIDF RFO, SCE may consider negotiating a bilateral contract with bidders who were not selected to fulfill the need, dependent upon timing, bid evaluation, updated need analysis (if any), and expedited Commission approval.

If the result of the DIDF RFO, SOC, or Partnership Pilot is a success and it is intended for DER developers to implement a DER project to defer a wires solution, SCE's contingency process will continue in parallel to that DER project. SCE's contingency process will also continue in parallel in the scenario where a utility owned DER is selected to defer a wires solution. SCE's contingency process includes executing traditional project development activities as a back-up in the event the DER solution cannot meet obligations or exits the interconnection process. SCE's contingency review process has review gates following both the DER and wires project as they move through their respective lifecycles. If it is determined the DER developer or the utility owned DER is unable to meet grid needs, a wires project will be used to meet the grid need if no other DER solution is available. Figure 24 is a general representation of the main contingency reviews SCE manages through the DER project lifecycle compared to a traditional project lifecycle.

FIGURE 24: CONTINGENCY REVIEW PROCESS

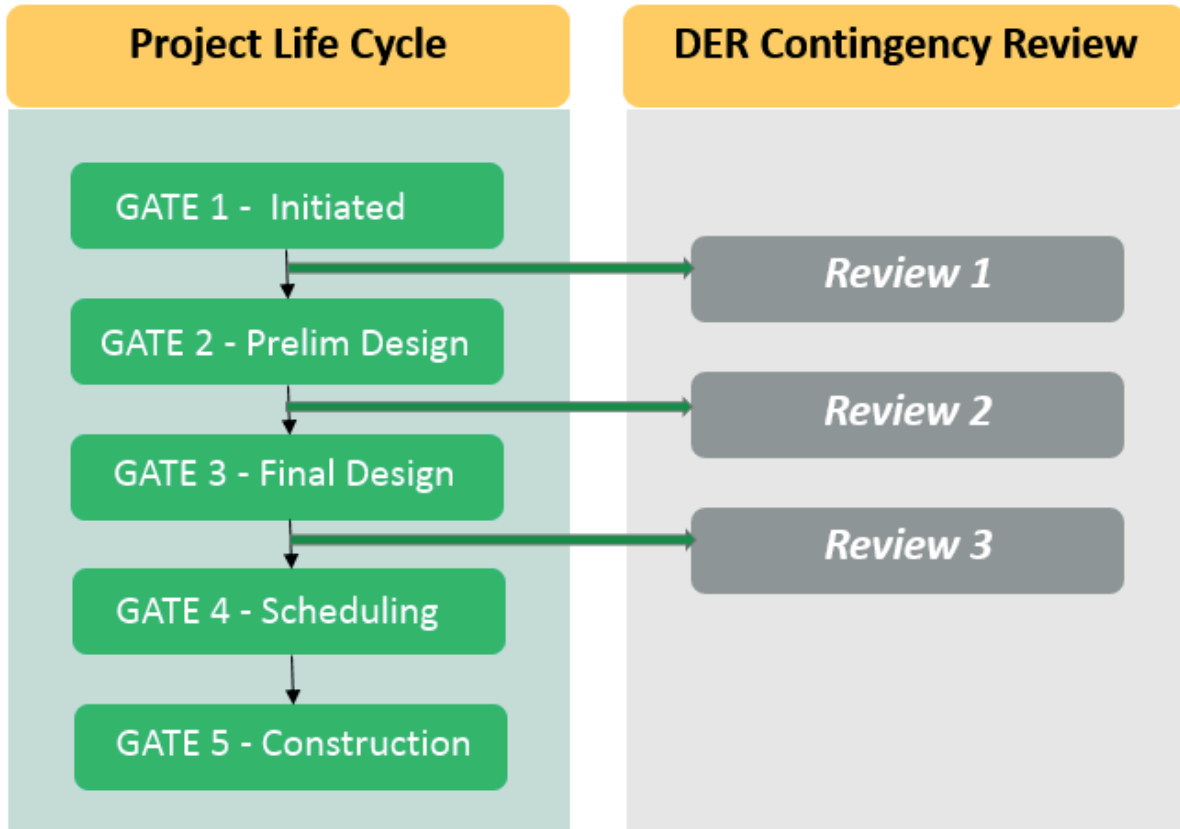


Figure 24 displays two columns. The left column represents the general gates for a wires project as it moves through its typical lifecycle. The right column represents the review stages for the DER project and how it aligns with the wires project lifecycle. During the DER Contingency Reviews, SCE evaluates the state of the DER project in comparison to the wires project lifecycle, which checks status of procurement, land acquisition, customer enrollment, and interconnection study results. The final DER Contingency Review (Review 3) takes place immediately after the final design of the wires project is complete and before SCE must procure major equipment, begin scheduling crews for construction, and start construction. In some cases, usually related to subtransmission projects or substation modifications, SCE must procure major equipment to verify specifications to complete final design. In these cases, the cost related to contingency planning will increase. Examples of the information SCE will seek from the DER party or require internally at each review is provided below:

Review 1:

- RFO or SOC contract status, confirm final signed contracts between SCE and DER party
- Partnership Pilot participation status relative to grid needs
- Complete technical evaluation confirming DER project meets grid needs

Review 2:

- CPUC approval of contracts received (if required)
- All necessary documentation has been provided for interconnection study (if required)
- In progress or high confidence in site acquisition (if required)
- Results of interconnection study received with confidence DER party will move forward to Phase II or equivalent (if required)
- Plan and timeframe for customer enrollment in behind the meter programs meet system need timelines (if required)

Review 3:

- Display commitment to complete project given updated interconnection study results (if required)
- Land acquisition is complete or in progress close to completion (if required)
- DER aggregators have installed behind the meter DER and have tested or close to testing operation (if required)
- All necessary agreements executed to confirm DER party will continue with deferral project

The timeframe for the completion of SCE's final review (Review 3) can vary depending on the scope of the wires project. However, SCE's final review generally happens 12 - 18 months prior to the operating date of the wires project. SCE will minimize contingency spending-related costs to the extent possible, however, spending incurred in parallel to the pursuit of the DER solution is unavoidable to maintain a viable contingency option. Further, it should be noted that for some projects, such as Licensing projects, these contingency costs will be substantial (potentially >\$10M and possibly many times higher) due to the significant project development activities required to be performed in parallel. The DER project may provide high confidence prior to the final DER contingency review (Review 3), at which time SCE would stop work on the traditional project and rely on the DER project to meet the grid need. SCE will track contingency plan spending in its Distribution Deferral Balancing Account and seek recovery for costs incurred in the GRC.⁸¹ The costs included in the balancing account will be itemized by each wires project intended for deferral. SCE will assess if alternative DER projects could be an option before making the final decision to go with the wires project in the event the initial DER developer is not able to meet the need dates or requirements.

13. Distribution Resources Plan External Portal (DRPEP)

D. 18-02-004 requested IOUs to develop a central DRP data access portal to present Integration Capacity Analysis (ICA), LNBA, GNA, and DDOR data on their corresponding circuit maps.

Table 30 lists the DDOR attributes that were added to the DRPEP on August 31, 2022.

⁸¹ Distribution Resources Plan, May 2020 DIDF Ruling, Reform #51.

TABLE 30: NEW DDOR FIELDS ADDED TO THE 2022 DRPEP IMPLEMENTATION

DDOR Attribute/Field	Regulatory Requirement
Operational Requirement	2019 DIDF Ruling, Attachment A: Project Specific DDOR Data 2g, pg. A4
Number of Grid Needs	2019 DIDF Ruling, Attachment A: Attachment A, Project Specific DDOR Data 2g, pg. A4

In the 2020 May DIDF Ruling, Reform #9 required IOUs to identify the location of all approved transmission projects on the DRPEP such that the attribute data can be viewed at the same time as ICA, GNA, DDOR, and other data layers provided. SCE will display transmission projects on its DRPEP that fall under at least one of the four DER deferrable services (Capacity, Volt/VAR, Reliability (Back-Tie), Resiliency (Microgrid)) and are either CAISO approved, Commission approved, or internally approved by IOU/CAISO and Commission approval not required. This year, the list includes three Bulk Electric System transmission projects with operating dates in 2022, 2025, and 2027.

13.1. Utilizing ICA Topology for Online Maps and Associated Circuit Information

The GNA and DDOR map layers are developed using the existing topology from the ICA. The ICA is updated monthly while the GNA report and DDOR are submitted annually. When a circuit is decommissioned, the decommissioned circuit is removed from the ICA topology during the monthly ICA refresh. If this decommissioned circuit shows a need in the GNA report and is associated with a planned investment in the DDOR, it would be also removed from the GNA and DDOR map layers. On the other hand, circuits continue to be added to SCE's DRPEP database based on system modifications, new construction, or general data mapping which eventually get added to the ICA topology.

Fundamentally, the ICA and GNA serve different purposes. The ICA quantifies the maximum amount of power that can be injected to and drawn from the existing distribution system requiring minimal to no distribution upgrades or operational restrictions. The GNA presents forecasted cumulative demand and DER growth for each circuit over a 5-year forecast horizon and the resulted forecasted equipment deficiencies. This results in minimal number of instances where the circuit list in the ICA is different from the circuit list in the GNA report. The "Planning Assumption_Feeder" and "PlanningAssupmtions_DistSub" sheets within the GNA report contain a list of circuits and distribution substations for which SCE applies a load and DER forecast disaggregation.

The following criteria represents the methodology to include the distribution circuits and substations in the GNA Planning Assumptions map layer:

- *Planning Assumptions_Feeder*: Only circuits that are included in both the Distribution Substation Plan and ICA circuit list.
- *Planning Assumptions_DistSub*: Substations that have downstream circuits listed in the Planning Assumptions_Feeder worksheet will be on this list.

14. Data Redaction

Pursuant to Pub. Util. Code § 8380(b) (1) and (d), D.97-10-031 and D.14-04-016, additional protections are required to protect the privacy of customer identifiable energy use under the “15/15 Rule” if: 1) there are fewer than 15 customers served by the electrical asset for which data is being displayed; or 2) the electrical asset serves a single customer whose energy use or demand exceeds 15% of the total demand that asset serves. SCE applies the 15/15 Rule to data that reflect distribution load, energy use, or demand data at a local geo-spatial level. SCE has determined that the following categories of data in the 2022 GNA report and DDOR can be utilized to derive customer energy use or demand and must be redacted under the 15/15 Rule:

- Equipment Rating⁸² for applicable distribution facilities in the “Grid Needs Assessment (GNA)” sheet
- Deficiency % for applicable distribution facilities, if the deficiency is presented in MW, in the “Grid Needs Assessment (GNA)” sheet and DDOR
- Cumulative Demand for applicable distribution facilities in the “Planning Assumption_Feeder” and “PlanningAssupmtions_DistSub” sheets
- Facility Loading (%) for applicable distribution facilities in the “Planning Assumption_Feeder” and “PlanningAssupmtions_DistSub” sheets
- Facility Loading Limit for applicable distribution facilities in the “Planning Assumption_Feeder” and “PlanningAssupmtions_DistSub” sheets

SCE currently has the capability to perform 15/15 Rule analysis on distribution circuits contained in SCE’s GNA and DDOR. However, SCE’s systems are not yet set up to perform 15/15 Rule analysis for substations. Therefore, in the GNA/DDOR, substation data is assumed to violate the 15/15 Rule and will be redacted in cases where all circuits fed out of that substation fail the 15/15 Rule.

15. DIDF Projects from Most Recent Cycle

The first iteration of the Standard Offer Contract Pilot launched on September 15, 2021, and the Partnership Pilot launched on January 18, 2022.

15.1. Partnership Pilot

SCE submitted AL 4643-E on November 15, 2021 requesting approval to launch the 2022 Partnership Pilot and, on December 13, 2021, supplemental AL 4643-E-A was submitted. The purpose of AL 4643-E-A was to remove language regarding the rollover of unspent performance funds while emphasizing neutrality towards the treatment of unspent funds. On January 18, 2022 SCE launched their first Partnership Pilot subscription period for the *New Circuit at El Casco Substation*, *Shawnee Substation Transformer Upgrade*, and *Santa Clara-Colonia 66 kV Subtransmission Line Rebuild* projects. The subscription period for both the El Casco and Shawnee projects ran from January 18, 2022

⁸² A deficiency value can be found by the following equation: $[(\text{Deficiency}) = (\text{Rating}) \times (\text{Deficiency \%})]$. In an equation with three variables, if any two variables are known, the third variable can be calculated. SCE has chosen to redact two (Equipment Rating and Deficiency %) of the three variables to prevent back calculation of a value that could later be used in an effort to derive a customer’s energy use.

to December 1, 2022, while the Colonia Project runs from January 18, 2022 to December 1, 2024. Unfortunately, SCE did not receive any reservation offers prior to the closing of Tranche 1's subscription period for the *New Circuit at El Casco Substation* project and the *Shawnee Substation Transformer Upgrade* project. Pending the subscription period closing of the *Santa Clara-Colonia 66 kV Subtransmission Line Rebuild* project, which is also at zero reservations to date, SCE will determine if the deferral needs were met for that project.

SCE submitted AL 4905-E on November 15, 2022 seeking approval to launch the 2023 Partnership Pilot⁸³ and received AL 4905-E Disposition Letter with Commission's approval on December 20, 2022⁸⁴. Within the approved AL, SCE recommended three candidate deferral projects for the Partnership Pilot, the *Saugus-Haskell 66kV Subtransmission Line Rebuild* project, the *New Rector-Riverway No. 2 66kV Subtransmission Line* project, and the *Upgrade Transformers at North Oaks Substation* project. The subscription periods for these projects will open on January 19, 2023.

15.2. SOC

SCE launched the *New Circuit at Eisenhower* project in its 2021 SOC pilot on September 15, 2021. SCE received offers on November 15, 2021 but, ultimately, did not execute any contracts because the offers were not for proven, commercially available technologies. For this reason, the offers were considered non-confirming according to SCE's SOC eligibility guidelines. The results of SCE's 2021 SOC pilot are described in more detail in the Independent Evaluator's (IE's) SOC report.⁸⁵

SCE launched the *New Transformer Upgrade at Alessandro* project in its 2022 SOC RFO on September 15, 2022. SCE received offers on November 30, 2022 and is currently in the final stage of selection.

15.3. DIDF RFO

SCE did not launch a DIDF RFO in its 2021 DIDF cycle because it only had one remaining Tier 1 project after identifying one project for the SOC pilot and three for the Partnership Pilot. The remaining Tier 1 project, the *New Circuit at Elizabeth Lake Substation*, was part of the unsuccessful prior DIDF solicitation. The offers received for this project in the prior RFO did not meet the needs for any of the deferral years. Because the solicitation was concluded without any DER offers selected, SCE did not believe that either BTM or IFOM technologies were likely to successfully defer this project in a solicitation launched the following year. The results of the prior DIDF RFO are described in more detail in SCE's Advice 4523-E.

⁸³ "Southern California Edison Company's Request for Approval to Launch the 2023 Partnership Pilot," Advice 4905-E, Nov. 15, 2022.

⁸⁴ CPUC Disposition Letter, Acceptance Effective Dec. 15, 2022, of Advice Letter 4905-E, Southern California Edison Company's Request for Approval to Launch the 2023 Partnership Pilot, Nov. 15, 2022

⁸⁵ Merrimack Energy Group, Inc, Southern California Edison Company 2021 Distributed Energy Resources Standard Offer Contract Request for Offers – Independent Evaluator Report, February 14, 2022

SCE launched the *New Circuit at Triton* project in its 2022 DIDF RFO on September 15, 2022. SCE received offers on November 30, 2022 and is currently in the final stage of selection.

16. Requirements Fulfillment

Table 31 provides a summary of the implementation of the reforms established in the 2020 May DIDF Ruling, the 2021 DIDF Ruling, and the 2022 DIDF Ruling. Many of the 2020 and 2021 reforms have been implemented, as was discussed in SCE’s 2020 and 2021 GNA/DDOR Narrative and are therefore not referenced in Table 25 or in this narrative. Only the remaining reforms from the 2020 May DIDF Ruling and the 2021 DIDF Ruling, as well as the new reforms from the 2022 DIDF Ruling are discussed below.

TABLE 31: SUMMARY OF THE 2020 MAY DIDF RULING, 2021 DIDF RULING, AND 2022 DIDF RULING REFORM IMPLEMENTATION

No.	Reforms	Fulfillment Description
32 (2020, updated in 2021)	During the 2021-2022 DPAG meetings the IOUs shall include a discussion of GPI’s and the IOUs comments about prioritization changing from a relative ranking among the candidate deferral projects identified each year to a ranking based on baseline/absolute threshold values that would carry over each year.	SCE discussed the revised reform in its 2021 DPAG meeting.
34 (2020)	If the cost of a planned investment or deferral opportunity conflicts with the corresponding project cost reported in an IOU’s same-year GRC filing, the IOU shall, in the GNA/DDOR, identify the GRC-specific cost and explain the discrepancy. Pursuant to D.18-02-004, Ordering Paragraph 2h., the discrepancy must also be presented in the GRC testimony.	Not applicable to future GNA and DDOR filings since the GNA/DDOR filings are provided annually in August and the IOU GRC applications were recently changed to May. IOUs will not be aware of cost discrepancies in their GNA/DDOR filing that precedes their GRC. Any discrepancies will be captured between the GNA/DDOR filing and SCE’s GRC application in the GRC testimony.
50 (2020)	With each GNA/DDOR filing, the IOUs shall append or separately provide to Energy Division a report organized by deferral opportunity that contains itemized data on any payments made to contracted deferral projects and all spending on contingency plans for each deferral opportunity. The reporting shall include any modifications or additional details required by Energy Division. The reporting shall include all candidate deferral projects launched in a DIDF RFO since 2018 and will continue to cover this timeframe unless modified by Energy Division. Additional reporting guidelines apply on GRC filing	SCE will provide this report along with its 2023 GNA/DDOR.

	years pursuant to D.18-02-004, Ordering Paragraph 2.dd.	
1 (2021)	Costs related to any CPUC-required DRP data portal enhancements, incremental to GRC authorized amounts, may be tracked within the Distribution Resources Plan Memorandum Account (DRPMA).	SCE will track and recover these costs accordingly.
2 (2021)	Written questions and all replies to the IOUs during the annual DIDF cycle shall be shared with Energy Division and the service list.	SCE compiled all questions and responses when the feedback period was complete and shared them with Energy Division and the service list this year and will continue to do so in the future.
4 (2021)	IOUs shall provide to the DRP service list public, fully unlocked Excel versions of all spreadsheets in the GNA/DDORs upon filing every August 15th.	SCE will provide public, fully unlocked Excel versions of all GNA/DDOR spreadsheets upon filing the narrative.
6 (2021)	Every six months IOUs shall submit to ED a DIDF Procurement Status Report noting the status of all DIDF contracts (RFO, SOC, Partnership Pilot), expected Date of Service, any modifications made to any contracts under the DIDF. The report shall include clear tables with current DIDF contract data as well as DIDF contract data from every DIDF cycle to date (including the prior IDER Pilots). A public version shall be shared with the DPAG and a confidential version with Energy Division. The IOUs shall produce its first report on November 15th and an update six months later. The IOUs should present a draft format of the report and data field to Energy Division who will provide guidance on the contents of the report by September 30, 2021. Energy Division may alter the format and contents of the report as needed on an ongoing basis to ensure the information reported is adequate to evaluate procurement status and outcomes.	SCE submitted its status reports on November 15, 2021, May 16, 2022, and November 22, 2022.
8 (2021)	The Commission shall permit the deployment date of the GNA and DDOR layers on Distribution Resource Plan Data Portals to occur by August 30th annually.	SCE will update the GNA and DDOR layers to its DRP External Portal by January 27, 2023.
1 (2022)	Delay the due date for the annual IE Report to mid-March	Not applicable to SCE.

2 (2022)	Require thorough details on the interconnection process, including timelines, to improve transparency and decrease the associated barrier to submitting successful projects	SCE included this information as part of RFO materials this year and will continue to do so in the figure.
3 (2022)	A procurement window of a minimum of 75 days should be implemented for the Standard-Offer-Contract, extending from September 15th to at least November 30th. If a second round Standard-Offer-Contract solicitation launches, the same 75-day minimum solicitation window should apply. Utilities may use a longer solicitation window.	SCE updated the procurement window for the 2022 SOC.
4 (2022)	Funds not spent in any Partnership Pilot project tranche should be rolled over to the subsequent tranche. Excess funds that may remain after the full deferral period (i.e., there are no future tranches to receive the roll over) shall be returned to ratepayers. In addition, funds should be rolled over to the next tranche while maintaining the deployment (20 percent), reservation (30 percent), and performance (50 percent) payment structure. Tranche design will be reviewed in the annual DIDF reform process as pilot data becomes available.	SCE will adjust the Partnership Pilot project tranche design budget accordingly.
5 (2022)	Each utility shall develop, document, and implement a quantitative ranking method for the Standard-Offer-Contract pilot and Partnership Pilot project selection in their 2022 GNA/DDOR filings, which shall be the primary factor used for the selection of projects to pilot. Qualitative measures may also be applied by Utilities as a secondary factor but must be fully documented and described in the GNA/DDOR filing.	SCE's implementation of this reform is explained in Section 10.
6 (2022)	Utilities shall include a detailed review of known load projects in their GNA/DDOR filings, including but not limited to, types of loads, number, amounts, and timing. A summary shall also be included similar to the evaluation provided in Section 3 of the March 17, 2022 IPE Report. Utilities shall each evaluate in their 2022 GNA/DDOR filings SCE's approach to tracking known load projects that identifies embedded and incremental loads and compare it to the PG&E and SDG&E approaches with the goal of proposing a standardized approach in the IOUs' 2023 DIDF reform comments. Utilities shall collaborate with the CEC and	SCE's implementation of this reform is explained in Section 5 and provided the Known Load Projects report.

	Energy Division staff on improving the IEPR demand forecast by exchanging information on modelling and assumptions used in the utility and CEC load forecasting processes.	
7 (2022)	This ruling continues the requirement to include line section data in the GNA/DDOR filing. Stakeholders are asked to consider the continued need for this data and provide comment on this matter in the 2022/2023 DDF cycle. Given the experience of the 2021-2022 DDF cycle, it is reasonable to grant an extension to file the required line section data. Accordingly, if necessary, Utilities may supplement their GNA/DDOR filings with line section data and the associated analyses no later than October 15, 2022.	SCE does not yet have the software tool capability to run line segment analysis. SCE is currently developing this systematic capability so that distribution planners can run power flows to identify line segment needs. SCE is still working through challenges and design with its software vendor. Therefore, SCE will not be able to include line segment level data within its 2022 GNA and DDOR. Until SCE has fully developed this capability, SCE will continue to perform and document circuit level analyses for the GNA and DDOR.

Table 32 below provides a summary of all columns present in the GNA report. The table lists the attribute/field name, a brief description of the attribute/field, and the 2019/2020 May Ruling requirement for that attribute/field.

TABLE 32: GNA REPORT COLUMN REQUIREMENT FULFILLMENT AND DESCRIPTION

Attribute/Field	Brief Description	Requirement
Grid Needs Assessment Sheet		
GNA ID	A unique identifier for each line item in the <i>Grid Needs Assessment (GNA)</i> sheet. This number is assigned in the GNA sheet but used for linkage purposes in both the Planning Assumptions sheets and DDOR.	The 2019 May Ruling: - Attachment A: GNA Datasets 1.c. - Attachment A: All Other Grid Service Needs 2.a.
Substation / Subtransmission Line	Defines the level of the electrical hierarchy at which the corresponding needs have been identified.	The 2019 May Ruling: - Attachment A: GNA Datasets 1.d. - Attachment A: All Other Grid Service Needs 2.b.
Circuit		
Distribution Service Required	Types of distribution service related to the services adopted by D.16-12-036: Capacity, Voltage including Reactive Power, Reliability, and Resiliency	The 2019 May Ruling: Attachment A: All Other Grid Service Needs 2.d.

Primary Driver of Grid Need	Defines whether the identified grid need is <i>primarily</i> driven by ⁸⁶ : DER growth Demand Growth	Ordering Paragraph No. 7 of D.18-03-023, DRP Track 3, Sub-track 2 Final Decision
Operating Date	The date on which traditional infrastructure must be constructed and energized, in advance of the forecasted grid need to maintain safety and reliability.	The 2019 May Ruling: - Attachment A: GNA Datasets 1.j. - Attachment A: All Other Grid Service Needs 2.e.
Equipment Element	Defines the category of equipment.	The 2019 May Ruling: Attachment A: All Other Grid Service Needs 2.f.
Equipment Rating	Defines the equipment’s lowest rated capacity without any planned investments.	
Equipment Units	Defines the equipment’s corresponding units.	
Deficiency (MW, MVAR, or V _{pu})	The GNA deficiencies are a summary of the summation of the needs for each circuit, substation, and subtransmission line listed in the DDOR Planned Investments. The deficiency % is the deficiency divided by the lowest rating in that year.	The 2019 May Ruling: Attachment A: GNA Datasets 1.i.
Deficiency (%)		The 2019 May Ruling: - Attachment A: GNA Datasets 1.h. - Attachment A: All Other Grid Service Needs 2.h.
Planning Assumptions_DistSub and Planning Assumptions_Feeder Sheets		
Facility	Defined as <i>Substation</i> above for Planning Assumptions_DistSub sheet. Defined as <i>Circuit</i> above for Planning Assumptions_Feeder sheet.	The 2019 May Ruling: - Attachment A: GNA Datasets 1.d. - Attachment A: All Other Grid Service Needs 2.b.
GNA ID	A unique identifier for each line item in the <i>Grid Needs Assessment (GNA)</i> sheet. This number is assigned in the GNA sheet but used for linkage purposes in both the Planning Assumptions sheets and DDOR	The 2019 May Ruling: - Attachment A: GNA Datasets 1.c. - Attachment A: All Other Grid Service Needs 2.a.
Base Demand (MW)	Represents the cumulative annual load growth combined with time of use impacts (not including DER growth).	The 2019 May Ruling: Attachment A: GNA Datasets 1.a.

⁸⁶ SCE notes Equipment Replacement, Other factor(s), and Combination of factors were drivers not historically used in the categorization of grid needs, but were initially referenced in SCE Advice 3787-E.

Cumulative Demand (MW)	Represents the cumulative forecasted demand that would need to be served by SCE's assets. This is the forecasted peak load that is temperature adjusted to the current approved weather design criteria.	The 2019 May Ruling: - Attachment A: GNA Datasets 1.f. - Attachment A: GNA Datasets 1.g.
Facility Loading (%)	Represents the criteria utilization of the facility.	The 2019 May Ruling: - Attachment A: GNA Datasets 1.e. - Attachment A: All Other Grid Service Needs 2.g.
Facility Loading Limit (MW)	Represents the facility rating after all projects are in-service.	Added to facilitate use of GNA data within the IDER Avoided Cost Calculator. ⁸⁷
Residential PV (MW)	Represents the cumulative annual CEC AC nameplate of PV resources for a given facility, split out between residential and non-residential. This is the amount of PV that coincides with the anticipated time of the facility's peak.	The 2019 May Ruling: Attachment A: GNA Datasets 1.b.iii.
Non-Residential PV (MW)		The 2019 May Ruling: Attachment A: GNA Datasets 1.b.iv.
EE (MW)	Represents the cumulative annual energy efficiency savings that coincide with the anticipated time of the facility's peak.	The 2019 May Ruling: Attachment A: GNA Datasets 1.b.i.
EV (MW)	Represents the cumulative annual amount of EV load that coincides with the anticipated time of the facility's peak.	The 2019 May Ruling: Attachment A: GNA Datasets 1.b.v.
LMDR (MW)	Represents the cumulative annual load modifying demand response impact that coincides with the anticipated time of the facility's peak.	The 2019 May Ruling: Attachment A: GNA Datasets 1.b.ii.
ES (MW)	Represents the cumulative annual amount of energy storage that coincides with the anticipated time of the facility's peak.	The 2019 May Ruling: Attachment A: GNA Datasets 1.b.vi.
Total DER Growth (MW)	Represents the total cumulative DER growth that coincides with the anticipated time of the facility's peak.	Added to facilitate use of GNA data within the IDER Avoided Cost Calculator. ⁸⁸

⁸⁷ CPUC, "Energy Division Staff Proposal for 2020 Avoided Cost Calculator Update," Final April 16, 2020 (*available at* <https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M334/K786/334786698.pdf>).

⁸⁸ *Ibid.*

Table 33 provides a summary of all columns present in the DDOR. The table lists the attribute/field name, a brief description of the attribute/field, and the regulatory requirements for that attribute/field.

TABLE 33: DDOR REPORT COLUMN REQUIREMENT FULFILLMENT AND DESCRIPTION

Attribute/Field	Brief Description	Requirement
Planned Investments		
GNA ID	A unique identifier for each line item in the <i>Grid Needs Assessment (GNA)</i> sheet. This number is assigned in the GNA sheet but used for linkage purposes in both the Planning Assumptions sheets and DDOR.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Planned Investments 1.a. The 2020 May Ruling: Reform #18
DDOR ID	A unique identifier for each line item in the <i>Planned Investments</i> sheet. DDOR ID can be used to map planned investments to candidate deferral projects.	
DDOR Project ID	A project identifier used to associate different components of a single project.	
Substation/Subtransmission Line Circuit	Defines the level of the electrical hierarchy for which a project and/or a need has been identified.	
Distribution Service Required	Types of distribution service related to the services adopted by D.16-12-036: Capacity, Voltage including Reactive Power, Reliability, and Resiliency	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Planned Investments 1.b.
Project Description	High level description of the project's scope using standardized language	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Planned Investments 1.a.
Project Description (Additional Information)	Complementary field to "Project Description" which offers an added level of detail	
Type of Equipment to Be Installed	The major equipment categories for the project	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Planned Investments 1.c.
Operating Date	The date on which traditional infrastructure must be constructed and energized to maintain safety and reliability.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Planned Investments 1.d.
Deficiency (MW, MVAR, or V _{PU})	The deficiencies are the needs being fulfilled by the proposed project for each circuit, substation, and subtransmission line listed in the Planned Investments and Candidate Deferrals.	Decision (D.) 18-02-004: 3.4.1.3 DDOR Contents-Planned Investments 4.

Deficiency %	The deficiency % is the deficiency divided by the equipment rating.	
DER Eligible Service	Indication of whether the planned investment passes the technical and timing screens.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Planned Investments 1.e.
Estimated LNBA Value	The LNBA value of each planned investment using the Commission approved methodology.	Decision (D.) 18-02-004: 3.4.1.3 DDOR Contents-Planned Investments 10. The 2020 May Ruling Reform #5
Residential Customer	Provides a customer type breakdown via count for the circuit, substation or subtransmission line associated with a specific planned investment.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Planned Investments 1.f.
Commercial Customer		
Industrial Customer		
Agricultural Customer		
Other Customer		
AACE Level of Cost Estimate	Equivalent AACE classifications of cost estimate for each planned investment by correlating SCE's business processes and AACE classifications.	The 2020 May Ruling: Reform #33
Project History	Identifies all projects included in prior DIDF cycles starting in 2019.	The 2021 June Ruling: Reform #7
Notes	Field utilized to record additional facts or topics for the specific planned investment not already captured elsewhere. The approval status of Pre-Application and Post-Application projects is presented here.	The 2020 May Ruling Reforms #33 and 37
Candidate Deferral Projects		
GNA ID	A unique identifier for each line item in the <i>Grid Needs Assessment (GNA)</i> sheet. This number is assigned in the GNA sheet but used for linkage purposes in both the Planning Assumptions sheets and DDOR.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Planned Investments 1.a.
DDOR ID	A unique identifier for each line item in the <i>Planned Investments</i> sheet. DDOR ID can be used to map planned investments to candidate deferral projects.	
Tier	Designates the tier of the candidate deferral project that results from applying prioritization metrics to the candidate deferrals.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Candidate Deferrals "tiered format" 2.
DDOR Project ID	A project identifier used to associate different components of a single project.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-

			Planned Investments 1.a.
Substation/Subtransmission Line		Defines the level of the electrical hierarchy for which a project and/or a need has been identified.	Decision (D.) 18-02-004: 3.4.1.3 DDOR Contents-Candidate Deferral Projects 1.
Circuit			
Distribution Service Required		Types of distribution service related to the services adopted by D.16-12-036: Capacity, Voltage including Reactive Power, Reliability, and Resiliency	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Candidate Deferrals 2.c.
Project Description		High level description of the project's scope using standardized language	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Planned Investments 1.a.
Project Description (Additional Information)		Complementary field to "Project Description" which offers an added level of detail	
Type of Equipment to Be Installed		The major equipment categories for the project	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Planned Investments 1.c.
Operating Date		The date on which traditional infrastructure must be constructed and energized to maintain safety and reliability.	Decision (D.) 18-02-004: 3.4.1.3 DDOR Contents-Candidate Deferral Projects 2.
Deficiency (MW, MVAR, or V _{PU})		The deficiencies are the needs being fulfilled by the proposed project for each circuit, substation, and subtransmission line listed in the Planned Investments and Candidate Deferrals.	Decision (D.) 18-02-004: 3.4.1.3 DDOR Contents-Planned Investments 4. The 2019 May Ruling: Attachment A: Project Specific DDOR data-Candidate Deferrals 2.d.
Deficiency %		The deficiency % is the deficiency divided by the equipment rating.	
Cost Effectiveness	LNBA Value (\$/MW-yr)	The peak capacity based LNBA value of each candidate deferral using the Commission approved methodology.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Candidate Deferrals 2.g.
	LNBA Value (\$/MWh-yr)	The annual energy based LNBA value of each candidate deferral using the Commission approved methodology.	
	LNBA Value (\$/MWh-day)	The peak day energy based LNBA value of each candidate deferral using the Commission approved methodology. This is for informational purpose.	The 2020 May Ruling: Reform #30
	Unit Cost of Traditional Mitigation (\$)	The unspent cost of the candidate deferral project.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Candidate Deferrals 2.g.

			The 2020 May Ruling Reform #37
Forecast Certainty	Grid Need Certainty	The weighted level of certainty score of the forecasted load growth driving the candidate deferral project.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Candidate Deferrals 2.g.
	Year of Need	The starting year of the grid needs mitigated by the candidate deferral project.	
Market Assessment	Duration	The maximum duration of needs within the 10-year planning horizon.	
	Capacity Needs per Affected Asset	An index of capacity needs per affected circuit. The relevant geographic area is represented by the number of circuits that a DER can connect to meet the need.	
	Operational Requirement	Whether DERs require real time, day ahead, or islanding (operate disconnected from the bulk electric system) operations to meet the specified grid need	
	Number of Grid Needs	The minimum number of DER interconnections required to meet the specified grid need.	
AACE Level of Cost Estimate		Equivalent AACE classifications of cost estimate for each candidate deferral by correlating SCE's business processes and AACE classifications.	The 2020 May Ruling: Reform #33
Project History		Identifies all projects included in prior DIDF cycles starting in 2019.	The 2021 June Ruling: Reform #7
Notes		Field utilized to record additional facts or topics for the specific planned investment not already captured elsewhere. The approval status of Pre-Application and Post-Application projects is presented here.	The 2020 May Ruling Reforms #33 and 37
Candidate Deferral Add Info			
GNA ID		A unique identifier for each line item in the <i>Grid Needs Assessment (GNA)</i> sheet. This number is assigned in the GNA sheet but used for linkage purposes in both the Planning Assumptions sheets and DDOR.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Planned Investments 1.a.
DDOR ID		A unique identifier for each line item in the <i>Planned Investments</i> sheet. DDOR ID can be used to map planned investments to candidate deferral projects.	
Tier		Designates the tier of the candidate deferral project that results from applying prioritization metrics to the candidate deferrals.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Candidate Deferrals "tiered format" 2.

DDOR Project ID	A project identifier used to associate different components of a single project.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Planned Investments 1.a.
Substation/Subtransmission Line	Defines the level of the electrical hierarchy for which a project and/or a need has been identified.	Decision (D.) 18-02-004: 3.4.1.3 DDOR Contents-Candidate Deferral Projects 1.
Circuit		
Distribution Service Required	Types of distribution service related to the services adopted by D.16-12-036: Capacity, Voltage including Reactive Power, Reliability, and Resiliency	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Candidate Deferrals 2.c.
Operating Date	The date on which traditional infrastructure must be constructed and energized to maintain safety and reliability.	Decision (D.) 18-02-004: 3.4.1.3 DDOR Contents-Candidate Deferral Projects 2.
Unit Cost of Traditional Mitigation ('000)	The unspent cost of the candidate deferral project.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Candidate Deferrals 2.f. The 2020 May Ruling Reform #37
Contingency Plan ('000)	The cost associated with implementing a traditional wires contingency in the event the DER solution does not come online to meet the grid need.	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Candidate Deferrals 2.h.
Capacity (MW)	The forecasted peak capacity need for the specified "Year"	The 2019 May Ruling: Attachment A: Project Specific DDOR data-Candidate Deferrals 2.a.; 2.d.; 2.e.
Energy Need (MWh)	The forecasted energy need for the peak day in the specified "Year"	
Hour of Day	The forecasted hours that there is a grid need on the peak day a specified "Year"	
Duration	Number of hours with grid needs on the peak day of a specified "Year"	
Time of Year	The seasons in which the need is forecasted to occur for a specified "Year"	
Monthly Frequency	The maximum forecasted number of days the grid needs present during a month during a specified "Year"	
Yearly Frequency	The total forecasted number of days that the grid needs present during a specified "Year"	
Year	The year within the 10-year planning horizon	

Attachment B

IEPR Scenario Approval for 2022 GNA/DDOR prep (R.21-06-017, R.14-08-013)

Vikki Cross

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Sent: Wednesday, July 28, 2021 11:50 AM
To: CarmelitaM@greenlining.org; DFranz@Tesla.com; evelyn@cal-cca.org; HChoy@isd.lacounty.gov; Jeanne Armstrong; JAC@CPowerEnergyManagement.com; JArasimowicz@fce.com; michael.levi@l1cg.com; abraham.silverman@nrg.com; diamond@energyhub.com; CGirouard@AEE.net; EApfelbach@ZBBenergy.com; DLowrey@Comverge.com; mbahl@tendrillinc.com; Mona.Tierney-Lloyd@Enel.com; EHsu2@SoCalGas.com; douglass (energyattorney.com); Gregory Klatt; William W Yu; JNewlander@sdge.com; gss@uci.edu; EWagner@CaliforniaHydrogen.org; Ben@clean-coalition.org; tam@communityrenewables.biz; ed; ted.ko@stem.com; sue.mara@RTOAdvisors.com; MDJoseph (adamsbroadwell.com); erin.grizard@bloomenergy.com; Sky C. Stanfield; matt.miley (cpuc.ca.gov); matthew (turn.org); Chhabra, Mohit; tlindl (kfwlaw.com); CJW5@pge.com; dbrookhyser@buchalter.com; Larissa Koehler; PatrickThompson@perkinscoie.com; NSheriff@Buchalter.com; BCragg@GoodinMacBride.com; SSullivan@suscon.org; Seth.Hilton@Stoel.com; hgolub@nixonpeabody.com; SteveGreenwald@dwt.com; MeganMMyers@yahoo.com; Policy@CEDMC.org; ASommer@BiologicalDiversity.org; ed@votesolar.org; Krieger@pseHealthyEnergy.org; Lynne@utilityapi.com; LChaset@kfwLaw.com; cesa_regulatory@storagealliance.org; breid@oliveinc.com; GMorris@emf.net; JLevin@BioEnergyCa.org; RBelur@EnphaseEnergy.com; jennifer.anne.chamberlin@jci.com; tmcrae@svlg.org; ddivan@varentec.com; JPinjuv@caiso.com; SASMorrison.law@gmail.com; Matthew Swindle; Brad@calssa.org; ChuckWhiteConsulting@gmail.com; GKester@casaweb.org; murraym@fastmail.fm; JJG@ESlawFirm.com; ATrowbridge (DayCarterMurphy.com); Matthew.McVee@PacifiCorp.com; chris.villani@uetechnologies.com; YLu (sandiego.gov); admills@lbl.gov; Barbara Barkovich; BKaun@epri.com; bce@alcantar-law.com; CStough@AdamsBroadwell.com; clinvill@raponline.org; regrelcpuccases (pge.com); curt@newenergy-advisors.com; dweizman@sdge.com; darylmic@gmail.com; Dawn Anaiscourt; Toy, Deanna; dianmg52@gmail.com; liddell@energyattorney.com; eric@strategyi.com; Eli.Harland@energy.ca.gov; erik.richardson@enel.com; Fernanda Craig; hanna.grene@energycenter.org; Caswell, Heide (PacifiCorp); james.hansell@navigant.com; jason.kaminsky@kwhanalytics.com; mckinneyjeanne@hotmail.com; jessalyn_ishigo@ahm.honda.com; jgreco@GrecoEnergyConsulting.onmicrosoft.com; KatieJorrie@dwt.com; Kelsey.Piro@pge.com; Kevin.Fallon@Citadel.com; KJoyce@Tesla.com; AppRhg; mcosta (energycoalition.org); delsolgrid@gmail.com; mark.shahinian@gmail.com; Brown, Mary Claire; MTisdale@MoreThanSmart.org; regulatory@mceCleanEnergy.org; mnguyen (energycoalition.org); nellie.tong@dnvgl.com; PatrickFerguson@dwt.com; Paul Nelson; Paul.Zimbardo@Citadel.com; petr.guryev@enel.com; Rhetta.DeMesa@energy.ca.gov; RUmoff@seia.org; Robert.Harris@sunrun.com; sachu.constantine@energycenter.org; smcgaraghan@nestlabs.com; Shalini Swaroop; Shalom@MicrogridArchitect.com; Sharon.Yang@LibertyUtilities.com; salkuran@poweredison.com; Snüller Price; sludwick@zimmerpartners.com; Steven@IEPA.com; Steven.Rymsha@Sunrun.com; Tim@LargeScaleSolar.org; Tim Olsen; tom.hunt@easycleanenergy.com; Udi@HelmanAnalytics.com; valeriekao@gmail.com; Regulatory@PilotPowerGroup.com; mrw (mrwassoc.com); benjamin.airth@energycenter.org; npatel@gridcosystems.com; RegAffairs@FormEnergy.com; FWolak@fce.com; utilitydockets@gmail.com; Brian.Fitzsimons@QadoEnergy.com; jonathan.arnold (db.com); mdavis@carlsoncapital.com; Gregory.Reiss@CentenusLP.com; Jamieson.Ward@centenuslp.com; Julien.Dumoulin-Smith@baml.com; nicholas.campanella@baml.com; kier@energyhub.net; ngarcia@aee.net; Brandon@CommunitySolarAccess.org; BSmithwood@Dimension-energy.com; Itillman@balch.com; Steve.Stubitz@Citadel.com; CPUCdockets (eq-research.com); ca@e9insight.com; energy.mark.nelson@gmail.com; BTheaker@mrpgenco.com; Elizabeth Baires; lmedina@isd.lacounty.gov; MSLe@isd.LAcounty.gov; HarveyEderPSPC@yahoo.com; LLuna9624

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Cc: Matthew William Dwyer; Eli Asher; gabriel.petlin (cpuc.ca.gov); Austin, Keishaa; Golestani, Naseem; Baker, Simon; Eshraghi, Alireza

Subject: (External):IEPR Scenario Approval for 2022 GNA/DDOR prep (R.21-06-017, R.14-08-013)

Attachments: Letter to ED_IEPR Scenarios 2022 GNA DDOR Final.pdf

***** EXTERNAL EMAIL - Use caution when opening links or attachments *****

To High-DER (R.21-06-017) and DRP (R.14-08-013) Service Lists:

Joint IOUs,

Your request for approval of Integrated Energy Policy Report (IEPR) scenarios to use for 2022 Grid Needs Assessment (GNA)/Distribution Deferral Opportunities Report (DDOR) preparation is approved.

For preparation of the 2023 GNA/DDOR filings, we request that the IOUs file a joint, Tier 2 Advice Letter to seek IEPR scenario approval. Please file it ten days in advance of the 2022 Distribution Forecasting Working Group (DFWG) meeting, which typically occurs each May.

Please include with the joint Advice Letter:

- A detailed explanation of each IEPR spreadsheet used to prepare the scenarios for GNA/DDOR development and any spreadsheet adjustments made by each IOU;
- A discussion of how the load and Distributed Energy Resource forecasts in the unadjusted IEPR spreadsheets compare to the adjusted spreadsheets; and
- The original and adjusted IEPR spreadsheets in unlocked, Excel files (if considered confidential, also file public, Excel versions). Please provide each set of IOU spreadsheets organized into separate zipped folders (one for each IOU).

Please provide a summary of Advice Letter contents and detailed description of each scenario in the 2022 DFWG presentation. The presentation focus should be on any IEPR spreadsheet adjustments made and reasons for the adjustments, especially with respect to planning for transportation electrification.

Finally, we request that the IOUs and other stakeholders consider the merits of adopting these Advice Letter and DFWG presentation content requests as Distribution Investment Deferral Framework reforms. We note that the annual DDF reform comments are not due until February 20, 2022.

Best,

From: Case Admin <Case.Admin@sce.com>

Sent: Thursday, July 1, 2021 4:58 PM

To: Case Admin Case.Admin@sce.com

Cc: Matthew William Dwyer <Matthew.Dwyer@sce.com>; Eli Asher <eli.asher@sce.com>

Subject: [EXTERNAL] RESERVED: DRP (R.14-08-013) - Letter to ED_IEPR Scenarios 2022 GNA DDOR Final _ 1 of 4

Dear Parties to DRP (R.14-08-013) Service List:

***Replaced word document with PDF**, please find Letter to ED_IEPR Scenarios 2022 GNA DDOR Final

Please reach out to the case managers with any questions: Eli Asher (eli.asher@sce.com), Matthew William Dwyer (Matthew.Dwyer@sce.com).

The attached documents are in Adobe Acrobat (pdf) format and can be printed or saved to your hard drive.

*Due to service list size, this is **1 of 4** emails.

Thank you,
Southern California Edison Company
Case Administration
Case.Admin@sce.com

July 1, 2021

Edward Randolph, Deputy Executive Director
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

SUBJECT: Southern California Edison Company, San Diego Gas & Electric Company and Pacific Gas and Electric Request for Approval of Integrated Energy Policy Report Scenarios for 2022 Grid Needs Assessment / Distribution Deferral Opportunities Report

Dear Mr. Randolph:

Southern California Edison Company (SCE), San Diego Gas & Electric Company (SDG&E) and Pacific Gas and Electric (PG&E) (collectively, the Joint Utilities) request Energy Division approval of the Integrated Energy Policy Report (IEPR) scenarios that will be utilized for the 2022 Grid Needs Assessment (GNA) and Distribution Deferral Opportunities Report (DDOR). Reform No. 3 of the *Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework – Filing and Process Requirements* (ALJ Ruling), issued on May 11, 2020 and amended on June 12, 2020, requires the Joint Utilities to “present a listing of the [IEPR] selected datasets to Energy Division for approval.” The Joint Utilities request Energy Division’s approval of the IEPR scenarios for the 2022-2023 GNA/DDOR herein.¹

BACKGROUND

On May 11, 2020, the ALJ Ruling was issued directing the Joint Utilities to adopt reforms on the Distribution Investment Deferral Framework (DIDF) as part of the Distribution Resources Plans (DRP) proceeding. A list of specific reforms was included in Attachment A to the ALJ Ruling. On June 12, 2020, ALJ Mason issued an amended Attachment A to the ALJ Ruling. Reform No. 3 was issued in the May 11, 2020 ALJ Ruling and was included unchanged in the amended Attachment A.

REQUEST FOR APPROVAL

Consistent with the Decision on Track 3 Policy Issues, Sub-track 1 (Growth Scenarios) and Sub-track 3 (Distribution Investment and Deferral Process) issued February 8, 2018 (Decision), the

¹ In accordance with Rule 1.8(d) of the Rules of Practice and Procedure of the California Public Utilities Commission, SCE has been authorized by PG&E and SDG&E to file this request on their behalf.

Joint Utilities have applied California Energy Commission (CEC)-adopted IEPR service-area level forecast scenarios since the 2018-19 distribution planning cycle and vetted their intra-service area disaggregation methodologies with the annual Distribution Forecasting Working Group (DFWG).² Since the Decision, the Joint Utilities have utilized IEPR scenarios consistently in their respective planning processes and have worked closely with CEC staff to agree on the specific scenarios to be used. As required by Reform No. 3, the Joint Utilities request formal approval of the scenarios for the 2022-2023 GNA/DDOR.

1. APPROVAL OF IEPR SCENARIOS FOR 2022-2023 GNA/DDOR

The Joint Utilities hereby request approval of the IEPR scenarios for their 2022-2023 GNA/DDORs. The Joint Utilities met and conferred to establish which IEPR datasets would be used for forecasting and disaggregation. On May 13, 2021, the scenarios were shared at the DFWG.³ A similar table is included below for reference.

		2022-2023 GNA/DDOR Cycle		
		SCE	PG&E	SDG&E
	CEC-Adopted IEPR Vintage	2019/20 IEPR Update	2019/20 IEPR Update	2019/20 IEPR Update
Scenario ⁴	Solar PV	Mid - Mid	Mid – Mid	Mid – Mid
	Energy Storage	Mid – Mid	Mid - Mid	Mid – Mid
	Transportation Electrification (LDV)	High TE	High TE	High TE
	Transportation Electrification (Non-LDV) ⁵	High TE	High TE	High TE
	Energy Efficiency	Mid – Low	Mid – Low	Mid – Low
	Load Modifying Demand Response	Mid – Mid	Mid – Mid	Mid – Mid
	Load	Mid - Mid	Mid – Mid	Mid - Mid

² D. 18-02-004, OP 1a and OP 1c.

³ 2021 DFWG Joint Utilities Presentation, presented at Distribution Forecasting Working Group Meeting on May 13, 2021 at p. 7.

⁴ SCE disaggregates Time of Use (“TOU”) impacts utilizing the CEC 2019 IEPR Load Modifier (Mid-Mid) forecast.

⁵ For SCE’s calendar year 2021-2022, SCE separately disaggregated Non-Light Duty Vehicles (“Non-LDV”) Electric Vehicles (“EV”) (includes Medium & Heavy duty, Bus, Forklift and TRU (Transport Refrigeration Unit)) from the load Mid-Mid scenario for that calendar year.

2. USE OF THE HIGH TE SCENARIO

During the May 13, 2021 DFWG meeting, the Joint IOUs presented these scenarios for which approval is being sought. For the 2022-2023 GNA/DDOR cycle, the IOUs are seeking approval to use the “High TE” scenario for both Light Duty Vehicle (LDV) and Non-LDV Transportation Electrification scenarios for purposes of distribution planning. The Joint IOUs view this transition to the High TE scenario to be an interim step to begin planning for long lead-time investments to support accelerated Electric Vehicle (EV) adoption that is necessary for California’s decarbonization goals. The current practice of utilizing the status quo Mid TE scenario will not allow the IOUs to prepare the grid for a high DER, high EV future. The Mid TE scenario does not adequately represent the level of transportation electrification necessary, and if the Joint IOUs cannot make the necessary grid upgrades to support the higher level of electrification, the grid becomes a barrier to adding new capacity instead of an enabler.

The TE market is unlikely to accelerate unless customers have confidence that grid upgrades will not hinder or delay their charging needs. Utilizing the High TE scenario for the 2022-2023 capacity planning process will help close the gap as this scenario factors in the state of California’s decarbonization and environmental goals. As indicated in the CEC’s recent AB 2127 Assessment, the grid will need to accommodate significant amounts of new EV charging load to support the state’s goals, including Governor Newsom’s recent Executive Order on ZEV adoption.

Looking to the 2023-2024 GNA/DDOR cycle and beyond, the IOUs believe utilizing a TE scenario that aligns with the state’s policy goals is necessary for distribution planning. Such a scenario is under development by the CEC. This will help to ensure that the IOUs’ distribution capacity planning processes are aligned with the grid infrastructure that will be needed to fully accommodate the state’s long-term vision for TE. The IOUs also encourage the Commission to use this policy-based IEPR TE scenario for all of the Commission’s long-term planning work; e.g., for the Integrated Resource Planning process. This will provide consistency and minimize the risk of conflicting plans and actions.

Please let us know if you have any questions regarding approval of the IEPR scenarios that will be utilized for the 2022-2023 GNA and DDOR.

Sincerely,

/s/ Tara Kaushik

Tara Kaushik
Managing Director, Regulatory Relations
Southern California Edison

cc: Administrative Law Judge Robert M. Mason III
Parties to Service Lists R.14-08-013

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Attachment C

2022 Grid Needs Assessment Redacted Dataset

(PUBLIC VERSION)

	Substation /		Distribution	Primary Driver of		Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹				
GNA ID	Subtransmission Line	Circuit	Service Required	Grid Need	Operating Date	Element	Rating	Units	2022 ^A	2023 ^A	2024 ^A	2025 ^A	2026 ^A	2022 ^B	2023 ^B	2024 ^B	2025 ^B	2026 ^B
GNA_2022_1	Alder 66/12 (D)	Frisbie	Capacity	Demand Growth	12/31/2023	Distribution Feeder	9.02 MW		0.00	5.07	5.00	4.96	4.93	0.00%	56.21%	55.43%	54.99%	54.66%
GNA_2022_2	Alder 66/12 (D)	Lytle	Capacity	Demand Growth	12/31/2023	Distribution Feeder	■ MW		1.98	5.18	5.16	5.16	5.13					
GNA_2022_3	Alessandro 115/33 (D)	null	Capacity	Demand Growth	6/1/2025	Distribution Substation	■ MW		0.00	0.00	0.57	1.17	1.07					
GNA_2022_4	Alhambra 66/16 (D)	Triumph	Reactive Power	Demand Growth	12/31/2022	Distribution Feeder	■ MVAR		0.24	0.24	0.27	0.27	0.31					
GNA_2022_5	Anaverde 66/12 (D)	Pelona	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder	0.60 MVAR		0.01	0.03	0.03	0.03	0.03	1.67%	5.00%	5.00%	5.00%	5.00%
GNA_2022_6	Apple Valley 115/12 (D)	Deloro	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	9.78 MW		0.54	0.50	0.59	0.48	0.41	5.47%	5.07%	6.03%	4.86%	4.14%
GNA_2022_7	Apple Valley 115/12 (D)	Tonto	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	9.80 MW		0.59	0.52	0.52	0.41	0.37	6.00%	5.28%	5.31%	4.15%	3.75%
GNA_2022_8	Aqueduct 115/12 (D)	Floodgate	Capacity (UCT)	Demand Growth	6/1/2024	Distribution Feeder	9.50 MW		1.09	1.28	1.26	1.26	1.70	10.78%	12.89%	12.69%	12.71%	17.89%
GNA_2022_9	Aqueduct 115/12 (D)	Tunnel	Capacity	Demand Growth	6/1/2024	Distribution Feeder	■ MW		0.00	0.74	3.02	5.52	7.59					
GNA_2022_10	Aqueduct 115/12 (D)	Tunnel	Capacity (UCT)	Demand Growth	6/1/2024	Distribution Feeder	■ MW		0.00	2.13	4.43	6.96	9.50					
GNA_2022_11	Archibald 66/12 (D)	Borba	Capacity	Demand Growth	12/31/2023	Distribution Feeder	■ MW		0.00	0.00	3.23	4.35	5.65					
GNA_2022_12	Archibald 66/12 (D)	Bravon	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	■ MW		1.80	1.46	0.52	0.50	0.46					
GNA_2022_13	Archibald 66/12 (D)	Creekside	Capacity (UCT)	Demand Growth	12/31/2023	Distribution Feeder	8.85 MW		0.00	0.22	0.30	0.33	0.39	0.00%	2.20%	3.03%	3.34%	3.94%
GNA_2022_14	Archibald 66/12 (D)	Danish	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	9.48 MW		1.59	1.33	0.52	0.52	0.46	14.68%	13.10%	5.47%	5.46%	4.85%
GNA_2022_15	Archibald 66/12 (D)	Garrett	Capacity (UCT)	Demand Growth	12/31/2023	Distribution Feeder	10.17 MW		0.00	0.00	0.00	0.04	0.07	0.00%	0.00%	0.00%	0.39%	0.68%
GNA_2022_16	Archibald 66/12 (D)	Hofer	Capacity	Demand Growth	6/1/2024	Distribution Feeder	6.80 MW		0.31	0.83	1.07	1.00	0.90	4.56%	12.21%	15.74%	14.71%	13.24%
GNA_2022_17	Archibald 66/12 (D)	Hofer	Capacity (UCT)	Demand Growth	12/31/2023	Distribution Feeder	9.67 MW		1.63	2.43	2.72	2.63	2.54	16.33%	25.00%	28.13%	27.20%	26.27%
GNA_2022_18	Archibald 66/12 (D)	Kropp	Capacity (UCT)	Demand Growth	12/31/2023	Distribution Feeder	11.63 MW		0.37	0.43	0.54	1.20	1.70	3.18%	3.63%	4.52%	10.22%	14.48%
GNA_2022_19	Archibald 66/12 (D)	Novac	Capacity	Demand Growth	6/1/2023	Distribution Feeder	11.96 MW		1.67	1.65	2.50	2.46	2.43	13.96%	13.80%	20.90%	20.57%	20.32%
GNA_2022_20	Archibald 66/12 (D)	null	Capacity	Demand Growth	12/31/2023	Distribution Substation	94.65 MW		0.00	0.00	5.28	11.17	12.41	0.00%	0.00%	5.58%	11.80%	13.11%
GNA_2022_21	Athens 16/4.16 (D)	null	Capacity	Demand Growth	6/1/2023	Distribution Substation	6.10 MW		1.20	1.30	1.30	1.30	1.30	19.67%	21.31%	21.31%	21.31%	21.31%
GNA_2022_22	Auld 115/12 (D)	Appalousa	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	11.37 MW		0.76	1.63	2.17	2.72	3.70	6.61%	14.26%	19.09%	23.73%	32.43%
GNA_2022_23	Auld 115/12 (D)	Beeler	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	11.70 MW		0.00	0.41	0.46	0.39	0.30	0.00%	3.43%	3.85%	3.26%	2.51%
GNA_2022_24	Auld 115/12 (D)	Clydesdale	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	■ MW		0.00	1.30	1.20	1.30	1.41					
GNA_2022_25	Auld 115/12 (D)	Garboni	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	■ MW		1.20	0.00	0.00	0.00	0.00					
GNA_2022_26	Auld 115/12 (D)	Leon	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	7.00 MW		0.00	1.41	1.30	1.30	1.09	0.00%	14.64%	13.66%	13.79%	11.47%
GNA_2022_27	Auld 115/12 (D)	Thoroughbred	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	11.48 MW		0.30	1.30	2.28	2.28	2.50	2.61%	11.30%	19.83%	19.79%	21.70%
GNA_2022_28	Bain 66/12 (D)	Bellgrave	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	9.86 MW		0.00	0.00	0.00	0.13	0.07	0.00%	0.00%	0.00%	1.31%	0.71%
GNA_2022_29	Bain 66/12 (D)	Cabana	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	10.43 MW		0.00	0.00	0.00	0.43	0.41	0.00%	0.00%	0.00%	4.12%	3.93%
GNA_2022_30	Bain 66/12 (D)	Conning	Capacity	Demand Growth	6/1/2023	Distribution Feeder	■ MW		1.20	1.87	2.13	2.15	2.11					
GNA_2022_31	Bain 66/12 (D)	Heffler	Capacity	Demand Growth	6/1/2025	Distribution Feeder	■ MW		0.62	1.32	4.72	4.72	4.67					
GNA_2022_32	Baker 115/12 (D)	Chavez	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder	0.60 MVAR		0.02	2.40	2.40	2.40	2.40	3.98%	399.39%	399.39%	399.39%	399.39%
GNA_2022_33	Baker 115/12 (D)	null	Capacity	Demand Growth	6/30/2023	Distribution Substation	6.04 MW		2.26	4.16	4.16	4.16	4.06	37.42%	68.87%	68.87%	68.87%	67.22%
GNA_2022_34	Beverly 66/4.16 (D)	Elevado	Reactive Power	Demand Growth	12/31/2022	Distribution Feeder	■ MVAR		0.10	0.10	0.10	0.10	0.07					
GNA_2022_35	Bixby 12/4.16 (D)	Seventh St.	Capacity	Demand Growth	12/31/2022	Distribution Feeder	1.60 MW		0.10	0.10	0.10	0.10	0.10	6.25%	6.25%	6.25%	6.25%	6.25%
GNA_2022_36	Bloomington 66/12 (D)	Bombay	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	9.09 MW		0.00	0.11	0.04	0.02	0.00	0.00%	1.21%	0.44%	0.22%	0.00%
GNA_2022_37	Bloomington 66/12 (D)	Flatcar	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	9.36 MW		0.22	0.20	0.17	0.11	0.02	2.35%	2.11%	1.79%	1.16%	0.21%
GNA_2022_38	Bloomington 66/12 (D)	Redball	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	■ MW		2.35	2.35	2.39	2.48	2.37					
GNA_2022_39	Bloomington 66/12 (D)	Slover	Capacity	Demand Growth	6/1/2025	Distribution Feeder	■ MW		0.00	2.87	2.78	2.70	2.63					
GNA_2022_40	Bluff Cove 16/4.16 (D)	Arcturus	Capacity	Demand Growth	6/1/2024	Distribution Feeder	1.50 MW		2.42	2.43	2.43	2.44	2.44	161.04%	161.71%	161.71%	162.37%	162.37%
GNA_2022_41	Bradbury 66/16 (D)	Hurstview	Capacity	Demand Growth	10/1/2023	Distribution Feeder	11.90 MW		0.00	0.00	1.85	1.91	1.91	0.00%	0.00%	15.55%	16.05%	16.05%
GNA_2022_42	Brewster 16/4.16 (D)	Pinehurst	Capacity	Demand Growth	12/31/2023	Distribution Feeder	2.93 MW		0.77	0.77	0.77	0.67	0.67	26.28%	26.28%	26.28%	22.87%	22.87%
GNA_2022_43	Browning 66/12 (D)	null	Reliability, Voltage	Demand Growth	6/1/2025	Distribution Substation	1.00 Vpu		0.95	0.95	0.95	0.95	0.95	94.70%	94.55%	94.55%	94.70%	94.70%
GNA_2022_44	Bullis 66/16 (D)	Atlantic	Capacity	Demand Growth	12/31/2023	Distribution Feeder	13.00 MW		0.00	3.83	3.73	3.63	3.53	0.00%	29.43%	28.67%	27.90%	27.13%
GNA_2022_45	Bullis 66/16 (D)	Colyer	Capacity	Demand Growth	6/1/2025	Distribution Feeder	14.00 MW		0.00	0.00	2.80	2.60	2.60	0.00%	0.00%	20.00%	18.57%	18.57%
GNA_2022_46	Bullis 66/16 (D)	null	Capacity	Demand Growth	6/1/2025	Distribution Substation	82.09 MW		0.00	0.00	2.10	1.60	1.10	0.00%	0.00%	2.55%	1.94%	1.34%
GNA_2022_47	Bunker 115/12 (D)	Ammo	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	■ MW		1.52	1.52	1.30	1.30	1.30					
GNA_2022_48	Bunker 115/12 (D)	Bazooka	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	■ MW		0.00	1.30	1.74	1.63	1.52					
GNA_2022_49	Bunker 115/12 (D)	Carbine	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	7.59 MW		0.00	1.30	1.96	2.07	2.28	0.00%	14.01%	25.82%	26.61%	28.36%
GNA_2022_50	Bunker 115/12 (D)	Chaney	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	8.61 MW		9.24	6.85	3.81	4.56	5.00	107.32%	79.01%	44.05%	52.84%	57.34%
GNA_2022_51	Bunker 115/12 (D)	Corporal	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	9.72 MW		1.42	2.72	0.54	0.98	0.87	14.61%	27.81%	5.56%	10.08%	8.93%
GNA_2022_52	Bunker 115/12 (D)	Hero	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	■ MW		0.00	0.87	0.87	0.76	0.76					
GNA_2022_53	Bunker 115/12 (D)	null	Capacity	Demand Growth	6/1/2024	Distribution Substation	108.67 MW		0.00	0.00	0.13	0.59	0.54	0.00%	0.00%	0.12%	0.54%	0.50%
GNA_2022_54	Bunker 115/12 (D)	Soldier	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	9.54 MW		0.22	0.33	0.00	0.00	0.00	0.26%	3.46%	0.00%	0.00%	0.00%
GNA_2022_55	Cabrillo 66/12 (D)	Xerox	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	10.10 MW		0.00	0.70	4.40	7.10	7.10	0.00%	6.93%	43.56%	70.30%	70.30%
GNA_2022_56	Cajalco 115/12 (D)	Starglow	Capacity (UCT)	Demand Growth	9/1/2023	Distribution Feeder	■ MW		0.00	1.30	0.43	0.65	0.54					
GNA_2022_57	Calamar P.T. 33/12 (A)	Calamar	Reactive Power	Demand Growth	12/31/2022	Distribution Feeder	0.60 MVAR		0.03	0.03	0.00	0.00	0.00	5.00%	5.00%	0.00%	0.00%	0.00%
GNA_2022_58	Calcity 'A' 33/12 (D)	Greasewood	Capacity	Demand Growth	6/30/2022	Distribution Feeder	8.30 MW		48.20	50.90	80.80	80.80	80.80	580.72%	613.25%	973.49%	973.49%	973.49%
GNA_2022_59	Calcity 'A' 33/12 (D)	null	Capacity	Demand Growth	6/30/2022	Distribution Substation	10.76 MW		6.00	6.00	5.90	5.90	5.80	55.76%	55.76%	54.83%	54.83%	53.90%
GNA_2022_60	Calcity 'B' 33/12 (D)	null	Capacity	Demand Growth	12/31/2022	Distribution Substation	18.20 MW		0.00	3.10	26.60	48.00	71.20	0.00%	17.03%	146.15%	263.74%	391.21%
GNA_2022_61	Calcity 'B' 33/12 (D)	Overall	Capacity	Demand Growth	12/31/2022	Distribution Feeder	11.96 MW		14.90	21.50	45.00	66.30	89.40	124.58%	179.72%	375.55%	553.05%	745.55%
GNA_2022_62	Calden 66/16 (D)	null	Capacity	Demand Growth	12/31/2022	Distribution Substation	26.00 MW		7.80	7.70	7.70	7.60	7.50	30.00%	29.62%	29.62%	29.23%	28.85%
GNA_2022_63	Chase 66/12 (D)	Diplomat	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	7.26 MW		0.00	0.00	0.72	0.70	0.63	0.00%	0.00%	8.30%	8.07%	7.24%
GNA_2022_64	Chase 66/12 (D)	Griffin	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	8.78 MW		1.11	1.02	1.15	1.07	1.02	12.31%	11.33%	13.10%	12.19%	11.62%
GNA_2022_65	Chase 66/12 (D)	Harlow	Capacity (UCT)	Demand Growth	6/1/2024	Distribution Feeder	10.02 MW		0.00	1.93	2.70	2.76	2.65	0.00%	19.09%	26.60%	27.14%	25.93%
GNA_2022_66	Chase 66/12 (D)	Magnolia	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	8.87 MW		0.00	0.00	0.89	0.83	0.78	0.00%	0.00%	10.03%	9.36%	8.79%
GNA_2022_67	Chase 66/12 (D)	Palace	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	10.02 MW		4.13	4.71	5.50	2.39	2.52	40.77%	46.68%	54.89%	23.80%	25.10%
GNA_2022_68	Chase 66/12 (D)	Weirick	Capacity (UCT)	Demand Growth	6/1/2024													

	Substation /		Distribution	Primary Driver of		Equipment	Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹						
GNA ID	Subtransmission Line	Circuit	Service Required	Grid Need	Operating Date	Element	Rating	Units	2022 ^A	2023 ^A	2024 ^A	2025 ^A	2026 ^A	2022 ^B	2023 ^B	2024 ^B	2025 ^B	2026 ^B
GNA_2022_78	Concho 115/12 (D)	Bandana	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	8.91 MW		1.41	1.41	1.09	0.65	0.65	14.95%	15.33%	12.23%	7.03%	7.10%
GNA_2022_79	Concho 115/12 (D)	Pistola	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	8.96 MW		1.96	2.39	2.28	2.39	2.28	21.12%	26.61%	25.03%	26.67%	25.33%
GNA_2022_80	Concho 115/12 (D)	Sombrero	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder		MW	0.00	0.43	0.43	0.43	0.22					
GNA_2022_81	Cornuta 66/12 (D)	Jury	Capacity	Demand Growth	12/31/2022	Distribution Feeder	12.00 MW		0.30	0.30	0.20	0.20	0.20	2.50%	2.50%	1.67%	1.67%	1.67%
GNA_2022_82	Corona 66/12 (D)	Bollero	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	9.35 MW		0.33	0.15	0.96	0.93	1.15	3.49%	1.57%	10.03%	9.72%	12.30%
GNA_2022_83	Corona 66/12 (D)	Glacier	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	1.61	1.48	1.52	1.48	1.57					
GNA_2022_84	Corona 66/12 (D)	Kingsford	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	0.15	0.13	1.63	1.63	1.85					
GNA_2022_85	Corona 66/12 (D)	Serfas	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	0.61	0.54	0.52	0.50	0.59					
GNA_2022_86	Corona 66/12 (D)	Vicentia	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	1.59	1.54	1.52	1.48	1.46					
GNA_2022_87	Corona 66/33 (D)	Cupples	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder		MVAR	1.02	1.17	1.24	1.57	1.94					
GNA_2022_88	Corona 66/33 (D)	Porphyry	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder		MVAR	3.13	3.13	3.13	3.13	3.13					
GNA_2022_89	Cortez 66/12 (D)	Barbossa	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder	0.60 MVAR		3.6851	3.6851	3.6851	3.6092	3.6092	614.18%	614.18%	614.18%	601.54%	601.54%
GNA_2022_90	Cottage Grove 12/2.4 (A)	Cottage Grove	Voltage	Demand Growth	6/1/2023	Distribution Feeder	1.00 Vpu		0.94	0.94	0.94	0.94	0.94	94.00%	94.00%	94.00%	94.00%	94.00%
GNA_2022_91	Cottage Grove 12/2.4 (A)	null	Capacity	Demand Growth	6/1/2023	Distribution Substation	0.65 MW		0.13	0.13	0.13	0.13	0.13	20.00%	20.00%	20.00%	20.00%	20.00%
GNA_2022_92	Crown 66/12 (D)	Coastal	Capacity (UCT)	Demand Growth	12/1/2023	Distribution Feeder	8.85 MW		0.67	0.70	0.72	0.74	0.76	7.57%	7.91%	8.14%	8.36%	8.59%
GNA_2022_93	Crown 66/12 (D)	Gunther	Capacity (UCT)	Demand Growth	12/1/2023	Distribution Feeder	9.35 MW		0.54	0.63	0.70	0.74	0.78	5.74%	6.71%	7.47%	7.90%	8.34%
GNA_2022_94	Dalton 66/12 (D)	Bender	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder	0.60 MVAR		0.57	0.57	0.57	0.01	0.01	95.50%	95.50%	95.50%	1.92%	1.92%
GNA_2022_95	Declez 66/12 (D)	Tractor	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder	0.60 MVAR		0.81	0.81	0.73	0.73	0.65	135.43%	135.43%	122.17%	122.17%	108.91%
GNA_2022_96	Del Rosa 66/12 (D)	Carpenter	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder		MVAR	0.18	0.18	0.13	0.13	0.09					
GNA_2022_97	Delano 66/12 (D)	C B S	Capacity (UCT)	Demand Growth	6/1/2024	Distribution Feeder		MW	0.00	0.00	0.65	0.65	0.65					
GNA_2022_98	Delano 66/12 (D)	Osner	Capacity (UCT)	Demand Growth	12/31/2024	Distribution Feeder	9.89 MW		0.00	0.00	0.20	0.17	0.15	0.00%	0.00%	2.02%	1.72%	1.51%
GNA_2022_99	Delano 66/12 (D)	Valente	Capacity (UCT)	Demand Growth	12/31/2024	Distribution Feeder	8.35 MW		0.00	0.00	0.11	2.89	2.85	0.00%	0.00%	1.22%	31.97%	31.42%
GNA_2022_100	Devers 115/12 (D)	Invader	Capacity	Demand Growth	8/31/2022	Distribution Feeder		MW	6.10	8.10	8.00	7.90	8.30					
GNA_2022_101	Devers 220/115 (S)	null	Reactive Power	Demand Growth	6/1/2026	Subtrans. Substation	14.40 MVAR		0.00	0.00	0.00	0.00	8.57	0.00%	0.00%	0.00%	0.00%	59.51%
GNA_2022_102	Downs 115/12 (D)	Rocket Town	Capacity	Demand Growth	6/1/2022	Distribution Feeder		MW	3.59	4.57	4.96	5.13	5.15					
GNA_2022_103	Edwards 115/33 (D)	Castle Butte	Capacity	Demand Growth	12/31/2022	Distribution Feeder		MW	0.00	3.65	14.22	14.28	14.28					
GNA_2022_104	Edwards 115/33 (D)	Castle Butte	Voltage	Demand Growth	12/31/2023	Distribution Feeder		Vpu	0.91	0.91	0.91	1.00	1.00					
GNA_2022_105	Edwards 115/33 (D)	null	Voltage	Demand Growth	6/1/2024	Distribution Substation	1.00 Vpu		0.95	0.93	0.87	0.87	0.87	95.00%	93.00%	87.00%	87.00%	87.00%
GNA_2022_106	Eisenhower 115/33 (D)	null	Reliability, Voltage	Demand Growth	6/1/2023	Distribution Substation	1.00 Vpu		0.95	0.95	0.95	0.95	0.96	95.00%	95.00%	95.00%	95.00%	96.00%
GNA_2022_107	El Casco 115/12 (D)	Jonagold	Capacity	Demand Growth	6/1/2024	Distribution Feeder	12.00 MW		0.00	0.29	2.43	4.42	4.42	0.00%	2.42%	20.25%	36.83%	36.83%
GNA_2022_108	Elizabeth Lake 66/16 (D)	Cello	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	9.12 MW		0.00	4.00	3.97	3.94	3.91	0.00%	43.87%	43.54%	43.21%	42.88%
GNA_2022_109	Elizabeth Lake 66/16 (D)	Guitar	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.00	0.00	0.07	1.68					
GNA_2022_110	Elizabeth Lake 66/16 (D)	Tambourine	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	14.74 MW		0.00	0.00	0.00	1.52	1.55	0.00%	0.00%	0.00%	10.30%	10.52%
GNA_2022_111	Elizabeth Lake 66/16 (D)	Tuba	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	8.53 MW		0.00	0.00	0.00	0.07	1.98	0.00%	0.00%	0.00%	0.79%	22.44%
GNA_2022_112	Elizabeth Lake-Pitchgen 66 kv	null	Reliability, Capacity	Demand Growth	6/1/2026	Subtransmission Line	83.00 MW		0.00	0.00	0.00	0.00	1.36	0.00%	0.00%	0.00%	0.00%	1.64%
GNA_2022_113	Elsinore 115/12 (D)	Collier	Capacity (UCT)	Demand Growth	8/1/2023	Distribution Feeder	10.98 MW		0.00	0.33	0.65	0.87	1.09	0.00%	2.94%	5.86%	7.82%	9.78%
GNA_2022_114	Eric 66/12 (D)	Corby	Capacity (UCT)	Demand Growth	12/31/2022	Distribution Feeder	10.36 MW		0.22	0.20	0.15	0.11	0.09	2.12%	1.93%	1.44%	1.05%	0.86%
GNA_2022_115	Eric 66/12 (D)	Semora	Capacity (UCT)	Demand Growth	12/31/2022	Distribution Feeder	10.36 MW		0.15	0.13	0.11	0.07	0.04	1.45%	1.25%	1.06%	0.67%	0.38%
GNA_2022_116	Estero 66/16 (D)	Tiros	Reactive Power	Demand Growth	12/31/2022	Distribution Feeder	0.60 MVAR		0.81	0.76	0.76	0.76	0.76	134.91%	127.29%	127.29%	127.29%	127.29%
GNA_2022_117	Estrella 66/12 (D)	Virgo	Capacity (UCT)	Demand Growth	5/1/2023	Distribution Feeder		MW	0.00	0.11	0.37	0.50	0.65					
GNA_2022_118	Etiwanda 66/12 (D)	Pryor	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	9.26 MW		0.00	0.37	0.46	0.48	0.48	0.00%	3.60%	4.50%	4.70%	4.70%
GNA_2022_119	Falcon Ridge 66/12 (D)	Chevelle	Capacity	Demand Growth	12/31/2022	Distribution Feeder	11.96 MW		1.11	1.07	1.04	1.00	0.96	9.28%	8.95%	8.70%	8.36%	8.03%
GNA_2022_120	Farrell 115/12 (D)	Alvera	Capacity (UCT)	Demand Growth	9/30/2022	Distribution Feeder	7.93 MW		1.41	2.37	0.65	0.61	0.52	15.02%	24.84%	8.13%	7.63%	6.56%
GNA_2022_121	Farrell 115/12 (D)	Date Palm	Capacity (UCT)	Demand Growth	9/30/2022	Distribution Feeder	9.37 MW		0.43	0.33	0.98	0.87	0.87	4.59%	3.51%	10.41%	9.20%	0.09%
GNA_2022_122	Farrell 115/12 (D)	Fey	Capacity (UCT)	Demand Growth	9/30/2022	Distribution Feeder	9.61 MW		1.41	1.30	1.30	1.20	1.09	14.61%	13.44%	13.53%	12.46%	11.27%
GNA_2022_123	Farrell 115/12 (D)	Garbo	Capacity (UCT)	Demand Growth	9/30/2022	Distribution Feeder	9.17 MW		0.87	0.87	0.22	0.11	0.11	9.44%	9.49%	2.25%	1.12%	1.12%
GNA_2022_124	Farrell 115/12 (D)	Tortuga	Capacity (UCT)	Demand Growth	9/30/2022	Distribution Feeder	9.33 MW		1.85	1.96	1.30	1.30	1.41	19.83%	20.92%	12.97%	12.88%	13.97%
GNA_2022_125	Farrell 115/12 (D)	Volturno	Capacity (UCT)	Demand Growth	6/1/2024	Distribution Feeder	10.04 MW		0.00	0.00	0.00	0.00	1.20	0.00%	0.00%	0.00%	0.00%	10.00%
GNA_2022_126	Garnet 115/33 (D)	Coachella	Capacity	Demand Growth	12/31/2022	Distribution Feeder		MW	17.50	17.30	17.10	16.90	16.80					
GNA_2022_127	Garnet 115/33 (D)	Coachella	Reliability, Capacity	Demand Growth	6/1/2025	Distribution Feeder		MW	7.63	7.37	7.11	6.80	6.56					
GNA_2022_128	Garnet 115/33 (D)	null	Capacity	Demand Growth	6/1/2022	Distribution Substation		MW	0.00	0.00	0.00	9.00	71.46					
GNA_2022_129	Garnet 115/33 (D)	Palmview	Capacity	Demand Growth	6/1/2022	Distribution Feeder		MW	4.50	14.60	50.10	91.83	86.90					
GNA_2022_130	Garnet 115/33 (D)	Palmview	Reliability, Capacity	Demand Growth	6/1/2025	Distribution Feeder		MW	1.39	1.41	0.00	9.71	21.36					
GNA_2022_131	Garnet 115/33 (D)	Townhall	Capacity	Demand Growth	6/1/2022	Distribution Feeder		MW	39.60	22.60	22.80	22.80	22.40					
GNA_2022_132	Garnet 115/33 (D)	Townhall	Reliability, Capacity	Demand Growth	6/1/2025	Distribution Feeder		MW	7.85	0.46	0.09	0.00	0.00					
GNA_2022_133	Grapevine P.T. 25/12 (A)	Grapevine	Capacity	Demand Growth	1/23/2024	Distribution Feeder		MW	0.09	0.09	0.09	0.09	0.09					
GNA_2022_134	Green Bear P.T. 12/2.4 (A)	Green Bear	Capacity	Demand Growth	12/31/2023	Distribution Feeder	0.80 MW		0.08	0.08	0.07	0.07	0.07	10.00%	10.00%	8.75%	8.75%	8.75%
GNA_2022_135	Hanford 66/12 (D)	Iona	Capacity (UCT)	Demand Growth	6/1/2024	Distribution Feeder	10.50 MW		0.00	0.00	0.70	0.70	0.70	0.00%	0.00%	6.42%	6.36%	6.36%
GNA_2022_136	Hesperia 115/12 (D)	Mesquite	Capacity (UCT)	Demand Growth	12/31/2022	Distribution Feeder	10.96 MW		0.00	0.13	0.72	3.00	6.83	0.00%	1.14%	6.27%	26.09%	59.29%
GNA_2022_137	Hi Desert 115/33 (D)	Pinto	Voltage	Demand Growth	7/31/2022	Distribution Feeder	1.00 Vpu		0.92	0.92	0.92	0.92	0.92	91.67%	91.67%	91.67%	91.67%	91.67%
GNA_2022_138	Hi Desert 33/25 (D)	Sunfair	Reliability, Capacity	Demand Growth	6/1/2023	Distribution Feeder	5.99 MW		7.61	7.61	7.61	7.61	7.61	127.05%	127.05%	127.05%	127.05%	127.05%
GNA_2022_139	Imperial 66/12 (D)	Luxor	Capacity (UCT)	Demand Growth	6/1/2024	Distribution Feeder	7.40 MW		3.60	3.50	3.50	3.30	3.20	48.65%	47.30%	47.30%	44.00%	42.67%
GNA_2022_140	Imperial 66/4.16 (D)	Gardendale	Capacity (UCT)	Demand Growth	6/1/2024	Distribution Feeder	2.50 MW		0.40	0.40	0.40	0.40	0.40	16.00%	16.00%	16.00%	16.00%	16.00%
GNA_2022_141	Irvine 66/12 (D)	Cadence	Capacity	Demand Growth	5/1/2025	Distribution Feeder	11.96 MW		0.00	0.00	0.00	0.65	0.65	0.00%	0.00%	0.00%	5.43%	5.43%
GNA_2022_142	Irvine 66/12 (D)	Great Park	Capacity (UCT)	Demand Growth	5/1/2025	Distribution Feeder		MW	0.00	0.00	0.00	0.22	0.17					
GNA_2022_143	Johanna 220/66 (S)	null	Reliability, Capacity	Demand Growth	6/1/2024	Subtrans. Substation	418.50 MW		10.00	21.10	26.90	26.20	27.30	2.39%	5.04%	6.43%	6.26%	6.52%
GNA_2022_144	Kimball 66/12 (D)	Fortress	Capacity (UCT)	Demand Growth	6/1/2024	Distribution Feeder	10.85 MW		0.13	0.09	0.04	0.00	0.00	1.20%	0.83%	0.37%	0.00%	0.00%
GNA_2022_145	Kimball 66/12 (D)	Havoc	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder		MW	3.78	29.04	27.44	28.16	28.28					
GNA_2022_146	Kimball 66/12 (D)	Hellcat	Capacity	Demand Growth	6/1/2023													

	Substation /		Distribution	Primary Driver of		Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹				
GNA ID	Subtransmission Line	Circuit	Service Required	Grid Need	Operating Date	Element	Rating	Units	2022 ^A	2023 ^A	2024 ^A	2025 ^A	2026 ^A	2022 ^B	2023 ^B	2024 ^B	2025 ^B	2026 ^B
GNA_2022_155	La Habra 66/12 (D)	Bride	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder	0.60	MVAR	1.36	1.63	1.72	1.72	1.63	225.88%	270.93%	285.95%	285.95%	270.93%
GNA_2022_156	Lakewood 66/4.16 (D)	Shipway	Capacity	Demand Growth	12/31/2022	Distribution Feeder	2.93	MW	0.10	0.10	0.10	0.10	0.10	3.41%	3.41%	3.41%	3.41%	3.41%
GNA_2022_157	Lancaster 66/12 (D)	Jackman	Capacity (UCT)	Demand Growth	9/1/2022	Distribution Feeder	10.96	MW	0.00	0.24	0.20	0.13	0.09	0.00%	2.06%	1.71%	1.11%	0.77%
GNA_2022_158	Lancaster 66/12 (D)	Kingtree	Capacity	Demand Growth	6/1/2023	Distribution Feeder	11.96	MW	0.83	0.76	0.74	0.70	0.67	6.94%	6.35%	6.19%	5.85%	5.60%
GNA_2022_159	Lancaster 66/12 (D)	Kingtree	Capacity (UCT)	Demand Growth	9/1/2022	Distribution Feeder	8.76	MW	4.00	1.17	1.17	1.11	1.09	45.56%	13.33%	13.36%	12.64%	12.41%
GNA_2022_160	Lancaster 66/12 (D)	Medallion	Capacity (UCT)	Demand Growth	9/1/2022	Distribution Feeder	9.78	MW	0.41	0.39	0.35	0.30	0.26	4.18%	3.99%	3.58%	3.07%	2.66%
GNA_2022_161	Lancaster 66/12 (D)	Phillips	Capacity (UCT)	Demand Growth	9/1/2022	Distribution Feeder	9.13	MW	0.00	0.22	0.20	0.15	0.13	0.00%	2.38%	2.16%	1.62%	1.40%
GNA_2022_162	Lancaster 66/12 (D)	Queensland	Capacity (UCT)	Demand Growth	9/1/2022	Distribution Feeder	10.65	MW	0.91	0.85	0.83	0.80	0.78	8.54%	7.97%	7.78%	7.50%	7.31%
GNA_2022_163	Lancaster 66/12 (D)	Target	Capacity (UCT)	Demand Growth	9/1/2022	Distribution Feeder		MW	1.72	1.28	1.20	1.15	1.07					
GNA_2022_164	Lee Vining 55/2.4 (D)	null	Capacity	Demand Growth	6/1/2022	Distribution Substation	1.50	MW	0.44	0.44	0.47	0.49	0.51	29.33%	29.33%	31.33%	32.67%	34.00%
GNA_2022_165	Limestone 66/12 (D)	Arsenic	Capacity (UCT)	Demand Growth	12/31/2023	Distribution Feeder		MW	0.00	0.00	0.00	0.00	0.02					
GNA_2022_166	Limestone 66/12 (D)	Calcium	Capacity (UCT)	Demand Growth	12/31/2023	Distribution Feeder	8.59	MW	0.70	0.70	0.67	0.93	1.11	7.74%	7.74%	7.41%	10.59%	12.92%
GNA_2022_167	Limestone 66/12 (D)	Krypton	Capacity (UCT)	Demand Growth	5/1/2022	Distribution Feeder		MW	0.11	1.43	1.98	2.04	2.00					
GNA_2022_168	Limestone 66/12 (D)	Lead	Capacity (UCT)	Demand Growth	12/31/2023	Distribution Feeder	7.13	MW	0.00	0.00	0.00	0.00	0.28	0.00%	0.00%	0.00%	0.00%	3.35%
GNA_2022_169	Limestone 66/12 (D)	Lithium	Capacity (UCT)	Demand Growth	5/1/2022	Distribution Feeder	8.80	MW	0.52	0.89	0.87	0.85	0.83	5.91%	10.11%	9.89%	9.66%	9.43%
GNA_2022_170	Limestone 66/12 (D)	Ruby	Capacity (UCT)	Demand Growth	5/1/2022	Distribution Feeder		MW	0.41	0.63	0.59	0.54	0.52					
GNA_2022_171	Limestone 66/12 (D)	Silver	Capacity (UCT)	Demand Growth	12/31/2023	Distribution Feeder		MW	0.00	0.00	0.00	0.04	1.59					
GNA_2022_172	Limestone 66/12 (D)	Slate	Capacity (UCT)	Demand Growth	12/31/2023	Distribution Feeder	7.41	MW	0.00	0.20	7.26	8.93	9.46	0.00%	2.10%	75.86%	92.92%	98.23%
GNA_2022_173	Linden 12/4.16 (D)	null	Capacity	Demand Growth	12/30/2022	Distribution Substation	4.58	MW	1.60	1.60	1.60	1.60	1.60	34.93%	34.93%	34.93%	34.93%	34.93%
GNA_2022_174	Little Rock 66/12 (D)	Sun Village	Capacity	Demand Growth	12/31/2023	Distribution Feeder		MW	0.00	0.39	3.04	3.11	3.04					
GNA_2022_175	Little Rock 66/12 (D)	Tierra Bonita	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder		MVAR	0.11	0.11	0.11	0.11	0.11					
GNA_2022_176	Lockheed 66/16 (D)	Orion	Capacity	Demand Growth	6/22/2023	Distribution Feeder	14.30	MW	0.56	0.56	0.56	0.68	0.75	3.89%	3.89%	3.89%	4.77%	5.21%
GNA_2022_177	Los Cerritos 12/4.16 (D)	Canton	Capacity	Demand Growth	6/1/2022	Distribution Feeder	2.93	MW	0.10	0.10	0.20	0.30	0.40	3.41%	3.41%	6.83%	10.24%	13.65%
GNA_2022_178	Los Cerritos 12/4.16 (D)	Wardlow	Capacity	Demand Growth	6/1/2022	Distribution Feeder	2.93	MW	0.10	0.20	0.10	0.10	0.10	3.41%	6.83%	3.41%	3.41%	3.41%
GNA_2022_179	Los Cerritos 66/12 (D)	Halter	Capacity	Demand Growth	6/1/2024	Distribution Feeder	10.60	MW	0.80	1.30	1.50	1.50	1.50	7.55%	12.26%	14.15%	14.15%	14.15%
GNA_2022_180	Lucas 66/4.16 (D)	Gallup	Capacity	Demand Growth	12/31/2023	Distribution Feeder	2.93	MW	0.20	0.20	0.20	0.20	0.20	6.83%	6.83%	6.83%	6.83%	6.83%
GNA_2022_181	Maraschino 115/12 (D)	Morello	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	3.54	2.20	1.09	2.39	2.63					
GNA_2022_182	Mayberry 115/12 (D)	Dartmouth	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	8.37	MW	0.00	0.11	0.00	0.00	0.00	0.00%	1.03%	0.00%	0.00%	0.00%
GNA_2022_183	Mayflower 16/4.16 (D)	Owl	Capacity	Demand Growth	6/1/2023	Distribution Feeder	2.93	MW	0.00	0.17	0.29	0.34	0.37	0.00%	5.80%	9.90%	11.60%	12.63%
GNA_2022_184	Mesa-Narrows 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2025	Subtransmission Line	2.77	MW	0.20	0.50	0.60	0.50	0.40	7.22%	18.05%	21.66%	18.05%	14.44%
GNA_2022_185	Milliken 66/12 (D)	Redlabel	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	2.22	1.30	1.39	1.30	1.89					
GNA_2022_186	Milliken 66/12 (D)	Tonic	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	0.00	0.00	0.00	0.00	0.11					
GNA_2022_187	Mira Loma 66/12 (D)	Andes	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	0.00	0.41	0.50	0.61	0.46					
GNA_2022_188	Mira Loma 66/12 (D)	Everest	Capacity	Demand Growth	6/1/2023	Distribution Feeder	11.96	MW	0.30	0.17	0.02	0.00	0.00	2.51%	1.42%	0.17%	0.00%	0.00%
GNA_2022_189	Mira Loma 66/12 (D)	null	Capacity	Demand Growth	6/1/2025	Distribution Substation	72.78	MW	0.00	0.52	1.57	3.04	3.50	0.00%	0.71%	2.16%	4.18%	4.81%
GNA_2022_190	Murphy 66/12 (D)	O'Toole	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	10.40	MW	0.30	0.30	0.30	0.20	0.20	2.88%	2.88%	2.88%	1.92%	1.92%
GNA_2022_191	Narod 66/12 (D)	Ballzak	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	1.80	2.00	2.00	2.00	1.90					
GNA_2022_192	Narod 66/12 (D)	Dessau	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	8.40	MW	0.70	0.70	0.70	0.70	0.70	8.33%	8.33%	8.33%	8.33%	8.33%
GNA_2022_193	Narod 66/12 (D)	Tile	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	8.10	MW	1.60	1.90	2.00	2.00	2.00	19.75%	23.46%	24.69%	24.69%	24.69%
GNA_2022_194	Neenach 66/12 (D)	null	Reliability, Voltage	Demand Growth	6/1/2023	Distribution Substation	1.00	Vpu	0.92	0.91	0.91	0.91	0.91	92.00%	91.00%	91.00%	91.00%	91.00%
GNA_2022_195	Nelson 115/12 (D)	Easter	Capacity (UCT)	Demand Growth	9/1/2023	Distribution Feeder	10.78	MW	0.33	0.22	0.11	0.00	0.00	3.06%	2.03%	1.01%	0.00%	0.00%
GNA_2022_196	Newbury 66/16 (D)	Intrepid	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder	0.90	MVAR	2.35	2.35	2.35	2.41	2.41	260.71%	260.71%	260.71%	267.61%	267.61%
GNA_2022_197	Newcomb 115/12 (D)	Bradley	Capacity (UCT)	Demand Growth	5/18/2022	Distribution Feeder	10.70	MW	0.00	1.52	1.41	1.30	1.30	0.00%	14.21%	13.13%	12.04%	12.10%
GNA_2022_198	Newcomb 115/12 (D)	Harnage	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	10.50	MW	1.96	2.17	2.74	2.72	2.93	18.15%	20.04%	26.10%	25.64%	27.90%
GNA_2022_199	Newcomb 115/12 (D)	Lusk	Capacity (UCT)	Demand Growth	5/18/2022	Distribution Feeder	10.03	MW	1.09	2.07	2.72	2.72	4.67	10.87%	20.64%	27.12%	27.12%	46.56%
GNA_2022_200	Newcomb 115/12 (D)	null	Capacity	Demand Growth	5/18/2022	Distribution Substation	11.96	MW	9.65	1.41	1.87	1.83	2.87	80.69%	11.79%	15.64%	15.30%	24.00%
GNA_2022_201	Newhall 66/16 (D)	Calgrove	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	12.50	MW	4.07	5.18	5.69	6.24	6.98	32.56%	40.03%	43.97%	48.22%	53.94%
GNA_2022_202	Newhall 66/16 (D)	Lyons	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	12.50	MW	4.23	4.69	5.17	5.50	5.98	33.84%	35.42%	39.05%	41.48%	45.00%
GNA_2022_203	Newhall 66/16 (D)	Powell	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	11.91	MW	4.82	5.92	6.29	6.64	6.98	40.47%	49.33%	51.90%	54.79%	56.79%
GNA_2022_204	North Oaks 66/16 (D)	null	Capacity	Demand Growth	6/1/2025	Distribution Substation	116.91	MW	6.55	9.64	11.42	13.03	14.00	5.60%	8.25%	9.77%	11.15%	11.97%
GNA_2022_205	Oak Grove 66/12 (D)	Effie	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	0.00	0.00	0.11	0.43	0.76					
GNA_2022_206	Oasis 66/12 (D)	Farms	Capacity	Demand Growth	6/1/2023	Distribution Feeder	10.56	MW	0.07	0.46	0.67	0.78	0.87	0.66%	4.36%	6.34%	7.39%	8.24%
GNA_2022_207	Oasis 66/12 (D)	Heights	Capacity	Demand Growth	6/1/2023	Distribution Feeder	11.41	MW	1.39	0.48	0.46	0.41	0.39	12.18%	4.21%	4.03%	3.59%	3.42%
GNA_2022_208	Oasis 66/12 (D)	null	Reliability, Capacity	Demand Growth	6/1/2023	Distribution Substation	108.60	MW	10.03	11.13	11.43	11.53	11.63	9.24%	10.25%	10.52%	10.62%	10.71%
GNA_2022_209	Oasis 66/12 (D)	Stealth	Capacity	Demand Growth	12/31/2023	Distribution Feeder	11.96	MW	0.85	0.78	0.70	0.63	0.59	7.11%	6.52%	5.85%	5.27%	4.93%
GNA_2022_210	Oasis 66/12 (D)	Tomcat	Capacity	Demand Growth	12/31/2023	Distribution Feeder	11.96	MW	0.85	0.78	0.70	0.63	0.59	7.11%	6.52%	5.85%	5.27%	4.93%
GNA_2022_211	Ontario 12/4.16 (D)	Maitland	Reactive Power	Demand Growth	12/31/2022	Distribution Feeder	0.15	MVAR	0.41	0.41	0.41	0.41	0.41	270.70%	270.70%	270.70%	270.70%	270.70%
GNA_2022_212	Ontario 12/4.16 (D)	Nocta	Capacity	Demand Growth	6/1/2023	Distribution Feeder	2.90	MW	0.20	0.30	0.30	0.30	0.30	6.90%	10.34%	10.34%	10.34%	10.34%
GNA_2022_213	Ordway 33/12 (D)	null	Capacity	Demand Growth	6/30/2023	Distribution Substation	9.46	MW	0.00	1.40	1.40	1.30	1.30	0.00%	14.80%	14.80%	13.74%	13.74%
GNA_2022_214	Palmdale 66/12 (D)	Lasker	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	10.09	MW	0.39	0.30	0.24	0.20	0.15	3.87%	2.96%	2.35%	1.95%	1.46%
GNA_2022_215	Palmdale 66/12 (D)	Ledford	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	8.07	MW	1.65	0.00	0.00	0.00	0.00	16.91%	0.00%	0.00%	0.00%	0.00%
GNA_2022_216	Palmdale 66/12 (D)	Mark	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	10.85	MW	0.90	2.28	2.28	3.06	3.90	7.94%	21.01%	20.69%	27.77%	35.39%
GNA_2022_217	Palmdale 66/12 (D)	null	Capacity	Demand Growth	12/31/2022	Distribution Substation	103.12	MW	21.82	10.61	8.59	8.33	8.04	21.16%	10.29%	8.33%	8.08%	7.80%
GNA_2022_218	Palmdale 66/12 (D)	Paddy	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	9.57	MW	0.00	4.36	0.00	0.00	0.00	0.00%	43.91%	0.00%	0.00%	0.00%
GNA_2022_219	Palmdale 66/12 (D)	Paint	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	6.80	MW	3.00	0.65	0.48	0.37	0.24	29.13%	9.03%	6.79%	5.34%	3.53%
GNA_2022_220	Palmdale 66/12 (D)	Pearland	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	10.04	MW	1.02	0.85	0.83	0.78	0.76	10.16%	8.33%	8.12%	7.62%	7.42%
GNA_2022_221	Palmdale 66/12 (D)	Razor	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	7.20	MW	0.00	1.65	1.54							

	Substation /		Distribution	Primary Driver of		Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹				
GNA ID	Subtransmission Line	Circuit	Service Required	Grid Need	Operating Date	Element	Rating	Units	2022 ^A	2023 ^A	2024 ^A	2025 ^A	2026 ^A	2022 ^B	2023 ^B	2024 ^B	2025 ^B	2026 ^B
GNA_2022_232	Phelan 115/12 (D)	Lotto	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	8.78	MW	1.24	1.17	1.11	1.07	1.02	14.12%	13.30%	12.57%	12.12%	11.53%
GNA_2022_233	Pico 66/12 (D)	Admiral	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder		MVAR	0.82	1.30	1.53	1.56	1.53					
GNA_2022_234	Pico 66/12 (D)	Bow	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder	0.90	MVAR	1.12	1.12	1.12	1.12	1.07	124.04%	124.04%	124.04%	124.04%	119.40%
GNA_2022_235	Pioneer 12/4.16 (D)	Piuma	Capacity	Demand Growth	6/1/2022	Distribution Feeder	2.40	MW	0.20	0.20	0.20	0.20	0.20	8.33%	8.33%	8.33%	8.33%	8.33%
GNA_2022_236	Puente 66/12 (D)	Valinda	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder		MVAR	3.33	3.33	3.33	3.33	3.25					
GNA_2022_237	Quartz Hill 66/12 (D)	null	Capacity	Demand Growth	6/1/2023	Distribution Substation	64.47	MW	8.91	8.61	8.65	8.43	8.30	13.82%	13.36%	13.42%	13.08%	12.87%
GNA_2022_238	Quinn 66/12 (D)	null	Reliability, Voltage	Demand Growth	6/1/2025	Distribution Substation	1.00	Vpu	0.93	0.93	0.93	0.93	0.93	93.18%	93.03%	93.03%	93.03%	93.03%
GNA_2022_239	Randall 66/12 (D)	Wahlstrom	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder	0.60	MVAR	0.79	0.79	0.75	0.75	0.75	131.67%	131.67%	125.00%	125.00%	125.00%
GNA_2022_240	Randsburg 115/33 (D)	Heavy	Voltage	Demand Growth	12/31/2023	Distribution Feeder	1.00	Vpu	0.92	0.92	0.92	0.98	0.98	92.00%	92.00%	92.00%	98.00%	98.00%
GNA_2022_241	Rector-Riverway 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2022	Subtransmission Line	141.75	MW	28.10	33.30	34.70	34.90	34.90	19.82%	23.49%	24.48%	24.62%	24.62%
GNA_2022_242	Redlands 66/4.16 (D)	Hastings	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder	0.23	MVAR	0.56	0.49	0.49	0.49	0.49	248.89%	217.78%	217.78%	217.78%	217.78%
GNA_2022_243	Rio Hondo 66/12 (D)	Euphrates	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	8.90	MW	1.20	1.10	1.10	1.10	1.10	13.48%	12.36%	12.36%	12.36%	12.36%
GNA_2022_244	Rio Hondo 66/12 (D)	Nile	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	9.50	MW	1.10	1.10	1.10	1.00	1.00	11.58%	11.58%	11.58%	10.53%	10.53%
GNA_2022_245	Rio Hondo 66/12 (D)	Rhine	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	2.00	2.50	2.70	2.70	2.60					
GNA_2022_246	Rio Hondo 66/12 (D)	Thames	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder	0.60	MVAR	1.78	1.78	1.78	1.78	1.78	296.67%	296.67%	296.67%	296.67%	296.67%
GNA_2022_247	Rio Hondo 66/12 (D)	Tigris	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	0.70	2.20	2.70	2.90	3.00					
GNA_2022_248	Rio Hondo 66/16 (D)	Pit	Reactive Power	Demand Growth	12/31/2022	Distribution Feeder		MVAR	1.11	1.11	1.11	1.11	1.11					
GNA_2022_249	Roadway 115/12 (D)	Mack	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	8.39	MW	0.00	0.87	0.98	1.07	1.09	0.00%	8.29%	9.45%	10.45%	10.69%
GNA_2022_250	Roadway 115/12 (D)	Peterbilt	Capacity	Demand Growth	6/1/2023	Distribution Feeder		MW	0.00	0.00	5.95	10.00	9.94					
GNA_2022_251	Rush 66/16 (D)	Brookline	Capacity (UCT)	Demand Growth	12/1/2023	Distribution Feeder	10.09	MW	1.15	0.00	0.00	0.00	0.00	11.30%	0.00%	0.00%	0.00%	0.00%
GNA_2022_252	Rush 66/16 (D)	Change	Capacity (UCT)	Demand Growth	12/1/2023	Distribution Feeder		MW	3.65	1.97	0.00	0.00	0.00					
GNA_2022_253	Rush 66/16 (D)	Tamora	Capacity (UCT)	Demand Growth	12/1/2023	Distribution Feeder	10.94	MW	0.94	0.26	0.00	0.00	0.00	7.45%	1.96%	0.00%	0.00%	0.00%
GNA_2022_254	San Antonio 66/12 (D)	Gaylord	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	10.00	MW	0.00	0.00	0.00	0.00	0.10	0.00%	0.00%	0.00%	0.00%	1.00%
GNA_2022_255	Santa Clara-Colonia 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2026	Subtransmission Line	83.00	MW	0.00	0.00	0.00	0.00	3.20	0.00%	0.00%	0.00%	0.00%	3.86%
GNA_2022_256	Santa Fe Springs 66/12 (D)	Nelles	Capacity	Demand Growth	6/1/2022	Distribution Feeder		MW	0.34	0.64	0.84	0.84	0.84					
GNA_2022_257	Santa Fe Springs 66/12 (D)	null	Capacity	Demand Growth	6/1/2023	Distribution Substation	97.37	MW	17.33	19.03	18.93	18.83	18.63	17.80%	19.54%	19.44%	19.34%	19.13%
GNA_2022_258	Santa Fe Springs 66/12 (D)	Painter	Capacity	Demand Growth	6/1/2022	Distribution Feeder	10.60	MW	0.70	0.70	0.70	0.70	0.60	6.60%	6.60%	6.60%	6.60%	5.66%
GNA_2022_259	Santa Monica 66/4.16 (D)	Irwin Hts	Reactive Power	Demand Growth	12/31/2022	Distribution Feeder	0.15	MVAR	0.00	0.03	0.03	0.03	0.03	0.00%	20.00%	20.00%	20.00%	20.00%
GNA_2022_260	Santiago 66/12 (D)	Tolar	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder	0.90	MVAR	1.69	2.13	2.08	2.08	2.02	188.06%	236.87%	230.77%	230.77%	224.67%
GNA_2022_261	Santiago 66/33 (D)	Pantani	Reliability, Capacity	Demand Growth	6/1/2024	Distribution Feeder		MW	6.24	9.47	13.41	15.35	17.65					
GNA_2022_262	Santiago-Irvine No. 2 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2024	Subtransmission Line	137.00	MW	0.00	0.00	5.06	9.95	11.51	0.00%	0.00%	3.69%	7.26%	8.40%
GNA_2022_263	Saugus 66/16 (D)	Crabtree	Capacity	Demand Growth	6/1/2026	Distribution Feeder	16.18	MW	0.00	0.00	0.00	0.00	1.90	0.00%	0.00%	0.00%	0.00%	11.72%
GNA_2022_264	Saugus 66/16 (D)	Tips	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	7.94	MW	0.00	0.00	0.00	0.00	4.14	0.00%	0.00%	0.00%	0.00%	52.13%
GNA_2022_265	Saugus-Haskell 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2026	Subtransmission Line	124.00	MW	0.00	0.00	0.00	0.00	4.32	0.00%	0.00%	0.00%	0.00%	3.48%
GNA_2022_266	Savage 115/12 (D)	Frontage	Reliability, Capacity	Demand Growth	12/31/2022	Distribution Feeder	13.04	MW	0.49	0.73	0.36	0.30	0.24	3.76%	5.60%	2.76%	2.30%	1.84%
GNA_2022_267	Shandin 115/12 (D)	Avanti	Capacity (UCT)	Demand Growth	5/1/2022	Distribution Feeder	9.26	MW	1.89	1.93	1.96	1.98	2.07	20.37%	20.84%	21.17%	21.38%	22.35%
GNA_2022_268	Shandin 115/12 (D)	Carmelita	Capacity (UCT)	Demand Growth	5/1/2022	Distribution Feeder	9.85	MW	1.15	0.74	0.63	0.52	0.41	11.68%	7.24%	6.14%	5.03%	3.95%
GNA_2022_269	Shandin 115/12 (D)	Northpark	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	11.70	MW	1.90	0.70	0.60	0.50	0.50	15.83%	5.98%	5.08%	4.24%	4.24%
GNA_2022_270	Shandin 115/12 (D)	Roi-Tan	Capacity (UCT)	Demand Growth	5/1/2022	Distribution Feeder	10.76	MW	3.48	0.46	0.35	0.28	0.20	31.75%	4.28%	3.25%	2.60%	1.86%
GNA_2022_271	Shandin 115/12 (D)	Varsity	Capacity (UCT)	Demand Growth	5/1/2022	Distribution Feeder		MW	0.00	0.28	0.22	0.20	0.13					
GNA_2022_272	Shuttle 66/12 (D)	Endor	Capacity	Demand Growth	6/1/2022	Distribution Feeder	6.80	MW	1.11	1.09	1.09	1.09	1.07	16.32%	16.03%	16.03%	16.03%	15.74%
GNA_2022_273	Silver Spur 33/12 (D)	Bit	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	9.24	MW	0.98	0.87	0.87	0.96	0.76	10.61%	9.35%	9.40%	10.29%	8.19%
GNA_2022_274	Stetson 115/12 (D)	Rotec	Capacity (UCT)	Demand Growth	9/2/2023	Distribution Feeder		MW	0.00	0.54	0.65	0.76	0.87					
GNA_2022_275	Stewart 66/12 (D)	Donald	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	9.10	MW	5.00	4.90	4.80	2.20	2.10	54.95%	53.85%	52.17%	23.66%	22.58%
GNA_2022_276	Stewart 66/12 (D)	Kordell	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder	8.60	MW	5.70	4.60	4.50	2.00	1.90	66.28%	53.49%	51.72%	22.99%	21.84%
GNA_2022_277	Sun City 115/12 (D)	Equinox	Capacity (UCT)	Demand Growth	5/18/2022	Distribution Feeder	11.24	MW	0.00	0.43	0.87	1.09	1.63	0.00%	3.70%	7.54%	9.42%	14.50%
GNA_2022_278	Sunnyside 66/12 (D)	null	Capacity	Demand Growth	6/1/2026	Distribution Substation	73.89	MW	0.00	0.00	0.00	0.00	0.01	0.00%	0.00%	0.00%	0.00%	0.01%
GNA_2022_279	Sunnyside 66/4.16 (D)	Raton	Capacity	Demand Growth	12/31/2022	Distribution Feeder	2.93	MW	0.07	0.07	0.07	0.07	0.07	2.39%	2.39%	2.39%	2.39%	2.39%
GNA_2022_280	Talbert 66/12 (D)	Raven	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	7.80	MW	7.80	10.30	10.10	9.90	9.80	100.00%	132.05%	129.49%	126.92%	125.64%
GNA_2022_281	Tenaja 115/12 (D)	Corinth	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	0.00	0.00	0.00	0.22	0.65					
GNA_2022_282	Thorhill 115/12 (D)	null	Reliability, Voltage	Demand Growth	6/1/2023	Distribution Substation	1.00	Vpu	0.95	0.95	0.95	0.95	0.96	95.00%	95.00%	95.00%	95.00%	96.00%
GNA_2022_283	Timoteo 66/12 (D)	Intern	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder	0.60	MVAR	2.15	2.26	2.32	2.32	2.32	358.33%	376.67%	386.67%	386.67%	386.67%
GNA_2022_284	Tortilla 115/12 (D)	Patio	Capacity	Demand Growth	6/30/2023	Distribution Feeder	10.40	MW	0.00	3.50	3.40	3.40	3.40	0.00%	33.65%	32.69%	32.69%	32.69%
GNA_2022_285	Tortilla 115/12 (D)	Patio	Voltage	Demand Growth	12/31/2022	Distribution Feeder	1.00	Vpu	0.90	0.90	0.90	0.91	0.91	90.00%	90.00%	90.00%	91.00%	91.00%
GNA_2022_286	Triton 115/12 (D)	Seawolf	Capacity	Demand Growth	6/1/2026	Distribution Feeder	11.96	MW	0.00	0.00	0.00	0.00	2.65	0.00%	0.00%	0.00%	0.00%	22.16%
GNA_2022_287	Upland 66/12 (D)	Campus	Reactive Power	Demand Growth	12/31/2022	Distribution Feeder	0.60	MVAR	2.17	2.12	2.06	2.01	2.01	361.67%	353.33%	343.33%	335.00%	335.00%
GNA_2022_288	Valley 115/12 (D)	Ethanac	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder	9.61	MW	0.00	0.00	0.00	0.22	1.85	0.00%	0.00%	0.00%	2.29%	19.25%
GNA_2022_289	Valley 115/12 (D)	Jerry	Capacity	Demand Growth	6/1/2025	Distribution Feeder	6.07	MW	0.00	0.00	0.00	0.00	1.59	0.00%	0.00%	0.00%	0.00%	265.00%
GNA_2022_290	Valley 115/12 (D)	Napa	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder		MW	0.00	0.00	0.00	0.00	0.22					
GNA_2022_291	Valley 115/12 (D)	Nations	Reactive Power	Demand Growth	12/31/2022	Distribution Feeder	0.60	MVAR	0.23	0.23	0.20	0.20	0.20	38.55%	38.55%	33.98%	33.98%	33.98%
GNA_2022_292	Valley 115/12 (D)	null	Capacity	Demand Growth	6/1/2025	Distribution Substation	93.85	MW	0.00	0.00	0.00	1.13	5.91	0.00%	0.00%	0.00%	1.20%	6.30%
GNA_2022_293	Valley 115/12 (D)	Trumble	Capacity (UCT)	Demand Growth	6/1/2022	Distribution Feeder		MW	0.00	0.00	0.00	0.22	1.30					
GNA_2022_294	Valley EFG 500/115 (S)	null	Capacity	Demand Growth	1/29/2026	Subtrans. Substation	896.00	MW	205.30	218.60	225.00	228.10	237.40	22.91%	24.40%	25.11%	25.46%	26.50%
GNA_2022_295	Viejo 66/12 (D)	Atento	Capacity (UCT)	Demand Growth	10/1/2022	Distribution Feeder	11.96	MW	0.85	2.50	2.70	2.72	2.70	7.11%	20.90%	22.58%	22.74%	22.58%
GNA_2022_296	Viejo 66/12 (D)	Consejo	Reactive Power	Demand Growth	12/31/2023	Distribution Feeder		MVAR	1.29	2.21	3.13	3.13	3.06					
GNA_2022_297	Viejo 66/12 (D)	Gordo	Capacity (UCT)	Demand Growth	6/1/2023	Distribution Feeder		MW	0.30	0.43	0.61	0.52	0.41					
GNA_2022_298	Villa Park 66/12																	

	Substation /		Distribution	Primary Driver of		Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹				
GNA ID	Subtransmission Line	Circuit	Service Required	Grid Need	Operating Date	Element	Rating	Units	2022 ^A	2023 ^A	2024 ^A	2025 ^A	2026 ^A	2022 ^B	2023 ^B	2024 ^B	2025 ^B	2026 ^B
GNA_2022_309	Del Sur-Lancaster-Riteaid 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2024	Subtransmission Line	83.45 MW		6.22	5.35	5.13	5.44	4.63	7.45%	6.41%	6.15%	6.52%	5.55%
GNA_2022_310	Edwards-Holgate 115 kV	null	Capacity	Demand Growth	6/1/2024	Subtransmission Line	82.99 MW		0.00	14.80	44.80	44.90	44.90	0.00%	17.83%	53.98%	54.10%	54.10%
GNA_2022_311	Etiwanda 'W' 220/66 (S)	null	Reactive Power	Demand Growth	6/1/2024	Subtrans. Substation	14.40 MVAR		40.40	39.30	19.50	19.30	18.10	280.56%	272.92%	135.42%	134.03%	125.69%
GNA_2022_312	Etiwanda 'W' 220/66 (S)	null	Reliability, Capacity	Demand Growth	6/1/2024	Subtrans. Substation	137.00 MW		15.52	14.51	14.18	14.12	14.01	11.33%	10.59%	10.35%	10.31%	10.23%
GNA_2022_313	Icegen-Jersey-Nola 66kV	null	Reliability, Capacity	Demand Growth	6/1/2023	Subtransmission Line	65.00 MW		3.00	3.00	3.00	5.00	5.00	4.62%	4.62%	4.62%	7.69%	7.69%
GNA_2022_314	Mesa 220/66 (S)	null	Reliability, Capacity	Demand Growth	6/1/2024	Subtrans. Substation	92.96 MW		6.70	7.00	7.10	7.00	6.90	7.20%	7.53%	7.63%	7.53%	7.42%
GNA_2022_315	Mira Loma 220/66 (S)	null	Reliability, Capacity	Demand Growth	6/30/2022	Subtrans. Substation	168.00 MW		5.00	6.00	6.00	6.00	6.00	2.98%	3.57%	3.57%	3.57%	3.57%
GNA_2022_316	Saugus-Colossus-Lockheed-Pitchgen 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2023	Subtransmission Line	83.00 MW		0.00	3.54	5.03	6.73	9.93	0.00%	4.27%	6.06%	8.11%	11.96%
GNA_2022_317	Saugus-Elizabeth Lake-MWD Foothill 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2023	Subtransmission Line	83.00 MW		0.00	3.77	5.27	6.93	10.14	0.00%	4.54%	6.35%	8.35%	12.22%
GNA_2022_318	Saugus-Newhall No. 1 66 kV	null	Reliability, Capacity	Demand Growth	12/31/2023	Subtransmission Line	116.00 MW		9.52	12.86	14.15	12.87	15.92	8.21%	11.09%	12.20%	11.09%	13.72%
GNA_2022_319	Saugus-Newhall No. 2 66 kV	null	Reliability, Capacity	Demand Growth	12/31/2023	Subtransmission Line	116.00 MW		9.52	12.86	14.15	12.87	15.92	8.21%	11.09%	12.20%	11.09%	13.72%
GNA_2022_320	Valley-Elsinore-Fogarty 115 kV	null	Capacity	Demand Growth	6/24/2022	Subtransmission Line	183.00 MW		8.00	8.00	8.00	9.00	10.00	4.37%	4.37%	4.37%	4.92%	5.46%
GNA_2022_321	Oasis-Palmdale-Quartz Hill 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2024	Subtransmission Line	141.75 MW		8.71	10.89	11.06	11.39	11.45	6.14%	7.68%	7.80%	8.04%	8.08%

C-7

[illegible]

C-9

Year	Month	Day	Hour	Minute	Second	Temperature (°C)	Humidity (%)	Wind Speed (km/h)	Wind Direction	Pressure (hPa)	Cloud Cover (%)	Visibility (km)	UV Index	Precipitation (mm)	Soil Moisture (%)	Plant Growth Index	Animal Activity Index	Human Activity Index	Weather Forecast	Notes
2023	1	1	0	0	0	15.0	65.0	12.0	NW	1013.2	10	10.0	2.0	0.0	45.0	1.0	0.5	1.0	Clear	
2023	1	1	1	0	0	15.1	65.1	12.1	NW	1013.3	10	10.0	2.0	0.0	45.1	1.0	0.5	1.0	Clear	
2023	1	1	2	0	0	15.2	65.2	12.2	NW	1013.4	10	10.0	2.0	0.0	45.2	1.0	0.5	1.0	Clear	
2023	1	1	3	0	0	15.3	65.3	12.3	NW	1013.5	10	10.0	2.0	0.0	45.3	1.0	0.5	1.0	Clear	
2023	1	1	4	0	0	15.4	65.4	12.4	NW	1013.6	10	10.0	2.0	0.0	45.4	1.0	0.5	1.0	Clear	
2023	1	1	5	0	0	15.5	65.5	12.5	NW	1013.7	10	10.0	2.0	0.0	45.5	1.0	0.5	1.0	Clear	
2023	1	1	6	0	0	15.6	65.6	12.6	NW	1013.8	10	10.0	2.0	0.0	45.6	1.0	0.5	1.0	Clear	
2023	1	1	7	0	0	15.7	65.7	12.7	NW	1013.9	10	10.0	2.0	0.0	45.7	1.0	0.5	1.0	Clear	
2023	1	1	8	0	0	15.8	65.8	12.8	NW	1014.0	10	10.0	2.0	0.0	45.8	1.0	0.5	1.0	Clear	
2023	1	1	9	0	0	15.9	65.9	12.9	NW	1014.1	10	10.0	2.0	0.0	45.9	1.0	0.5	1.0	Clear	
2023	1	1	10	0	0	16.0	66.0	13.0	NW	1014.2	10	10.0	2.0	0.0	46.0	1.0	0.5	1.0	Clear	
2023	1	1	11	0	0	16.1	66.1	13.1	NW	1014.3	10	10.0	2.0	0.0	46.1	1.0	0.5	1.0	Clear	
2023	1	1	12	0	0	16.2	66.2	13.2	NW	1014.4	10	10.0	2.0	0.0	46.2	1.0	0.5	1.0	Clear	
2023	1	1	13	0	0	16.3	66.3	13.3	NW	1014.5	10	10.0	2.0	0.0	46.3	1.0	0.5	1.0	Clear	
2023	1	1	14	0	0	16.4	66.4	13.4	NW	1014.6	10	10.0	2.0	0.0	46.4	1.0	0.5	1.0	Clear	
2023	1	1	15	0	0	16.5	66.5	13.5	NW	1014.7	10	10.0	2.0	0.0	46.5	1.0	0.5	1.0	Clear	
2023	1	1	16	0	0	16.6	66.6	13.6	NW	1014.8	10	10.0	2.0	0.0	46.6	1.0	0.5	1.0	Clear	
2023	1	1	17	0	0	16.7	66.7	13.7	NW	1014.9	10	10.0	2.0	0.0	46.7	1.0	0.5	1.0	Clear	
2023	1	1	18	0	0	16.8	66.8	13.8	NW	1015.0	10	10.0	2.0	0.0	46.8	1.0	0.5	1.0	Clear	
2023	1	1	19	0	0	16.9	66.9	13.9	NW	1015.1	10	10.0	2.0	0.0	46.9	1.0	0.5	1.0	Clear	
2023	1	1	20	0	0	17.0	67.0	14.0	NW	1015.2	10	10.0	2.0	0.0	47.0	1.0	0.5	1.0	Clear	
2023	1	1	21	0	0	17.1	67.1	14.1	NW	1015.3	10	10.0	2.0	0.0	47.1	1.0	0.5	1.0	Clear	
2023	1	1	22	0	0	17.2	67.2	14.2	NW	1015.4	10	10.0	2.0	0.0	47.2	1.0	0.5	1.0	Clear	
2023	1	1	23	0	0	17.3	67.3	14.3	NW	1015.5	10	10.0	2.0	0.0	47.3	1.0	0.5	1.0	Clear	
2023	1	1	24	0	0	17.4	67.4	14.4	NW	1015.6	10	10.0	2.0	0.0	47.4	1.0	0.5	1.0	Clear	
2023	1	1	25	0	0	17.5	67.5	14.5	NW	1015.7	10	10.0	2.0	0.0	47.5	1.0	0.5	1.0	Clear	
2023	1	1	26	0	0	17.6	67.6	14.6	NW	1015.8	10	10.0	2.0	0.0	47.6	1.0	0.5	1.0	Clear	
2023	1	1	27	0	0	17.7	67.7	14.7	NW	1015.9	10	10.0	2.0	0.0	47.7	1.0	0.5	1.0	Clear	
2023	1	1	28	0	0	17.8	67.8	14.8	NW	1016.0	10	10.0	2.0	0.0	47.8	1.0	0.5	1.0	Clear	
2023	1	1	29	0	0	17.9	67.9	14.9	NW	1016.1	10	10.0	2.0	0.0	47.9	1.0	0.5	1.0	Clear	
2023	1	1	30	0	0	18.0	68.0	15.0	NW	1016.2	10	10.0	2.0	0.0	48.0	1.0	0.5	1.0	Clear	
2023	1	2	1	0	0	18.1	68.1	15.1	NW	1016.3	10	10.0	2.0	0.0	48.1	1.0	0.5	1.0	Clear	
2023	1	2	2	0	0	18.2	68.2	15.2	NW	1016.4	10	10.0	2.0	0.0	48.2	1.0	0.5	1.0	Clear	
2023	1	2	3	0	0	18.3	68.3	15.3	NW	1016.5	10	10.0	2.0	0.0	48.3	1.0	0.5	1.0	Clear	
2023	1	2	4	0	0	18.4	68.4	15.4	NW	1016.6	10	10.0	2.0	0.0	48.4	1.0	0.5	1.0	Clear	
2023	1	2	5	0	0	18.5	68.5	15.5	NW	1016.7	10	10.0	2.0	0.0	48.5	1.0	0.5	1.0	Clear	
2023	1	2	6	0	0	18.6	68.6	15.6	NW	1016.8	10	10.0	2.0	0.0	48.6	1.0	0.5	1.0	Clear	
2023	1	2	7	0	0	18.7	68.7	15.7	NW	1016.9	10	10.0	2.0	0.0	48.7	1.0	0.5	1.0	Clear	
2023	1	2	8	0	0	18.8	68.8	15.8	NW	1017.0	10	10.0	2.0	0.0	48.8	1.0	0.5	1.0	Clear	
2023	1	2	9	0	0	18.9	68.9	15.9	NW	1017.1	10	10.0	2.0	0.0	48.9	1.0	0.5	1.0	Clear	
2023	1	2	10	0	0	19.0	69.0	16.0	NW	1017.2	10	10.0	2.0	0.0	49.0	1.0	0.5	1.0	Clear	
2023	1	2	11	0	0	19.1	69.1	16.1	NW	1017.3	10	10.0	2.0	0.0	49.1	1.0	0.5	1.0	Clear	
2023	1	2	12	0	0	19.2	69.2	16.2	NW	1017.4	10	10.0	2.0	0.0	49.2	1.0	0.5	1.0	Clear	
2023	1	2	13	0	0	19.3	69.3	16.3	NW	1017.5	10	10.0	2.0	0.0	49.3	1.0	0.5	1.0	Clear	
2023	1	2	14	0	0	19.4	69.4	16.4	NW	1017.6	10	10.0	2.0	0.0	49.4	1.0	0.5	1.0	Clear	
2023	1	2	15	0	0	19.5	69.5	16.5	NW	1017.7	10	10.0	2.0	0.0	49.5	1.0	0.5	1.0	Clear	
2023	1	2	16	0	0	19.6	69.6	16.6	NW	1017.8	10	10.0	2.0	0.0	49.6	1.0	0.5	1.0	Clear	
2023	1	2	17	0	0	19.7	69.7	16.7	NW	1017.9	10	10.0	2.0	0.0	49.7	1.0	0.5	1.0	Clear	
2023	1	2	18	0	0	19.8	69.8	16.8	NW	1018.0	10	10.0	2.0	0.0	49.8	1.0	0.5	1.0	Clear	
2023	1	2	19	0	0	19.9	69.9	16.9	NW	1018.1	10	10.0	2.0	0.0	49.9	1.0	0.5	1.0	Clear	
2023	1	2	20	0	0	20.0	70.0	17.0	NW	1018.2	10	10.0	2.0	0.0	50.0	1.0	0.5	1.0	Clear	
2023	1	2	21	0	0	20.1	70.1	17.1	NW	1018.3	10	10.0	2.0	0.0	50.1	1.0	0.5	1.0	Clear	
2023	1	2	22	0	0	20.2	70.2	17.2	NW	1018.4	10	10.0	2.0	0.0	50.2	1.0	0.5	1.0	Clear	
2023	1	2	23	0	0	20.3	70.3	17.3	NW	1018.5	10	10.0	2.0	0.0	50.3	1.0	0.5	1.0	Clear	
2023	1	2	24	0	0	20.4	70.4	17.4	NW	1018.6	10	10.0	2.0	0.0	50.4	1.0	0.5	1.0	Clear	
2023	1	2	25	0	0	20.5	70.5	17.5	NW	1018.7	10	10.0	2.0	0.0	50.5	1.0	0.5	1.0	Clear	
2023	1	2	26	0	0	20.6	70.6	17.6	NW	1018.8	10	10.0	2.0	0.0	50.6	1.0	0.5	1.0	Clear	
2023	1	2	27	0	0	20.7	70.7	17.7	NW	1018.9	10	10.0	2.0	0.0	50.7	1.0	0.5	1.0	Clear	
2023	1	2	28	0	0	20.8	70.8	17.8	NW	1019.0	10	10.0	2.0	0.0	50.8	1.0	0.5	1.0	Clear	
2023	1	2	29	0	0	20.9	70.9	17.9	NW	1019.1	10	10.0	2.0	0.0	50.9	1.0	0.5	1.0	Clear	
2023	1	2	30	0	0	21.0	71.0	18.0	NW	1019.2	10	10.0	2.0	0.0	51.0	1.0	0.5	1.0	Clear	
2023	1	3	1	0	0	21.1	71.1	18.1	NW	1019.3	10	10.0	2.0	0.0	51.1	1.0	0.5	1.0	Clear	
2023	1	3	2	0	0	21.2	71.2	18.2	NW	1019.4	10	10.0	2.0	0.0	51.2	1.0	0.5	1.0	Clear	
2023	1	3	3	0	0	21.3	71.3	18.3	NW	1019.5	10	10.0	2.0	0.0	51.3	1.0	0.5	1.0	Clear	
2023	1	3	4	0	0	21.4	71.4	18.4	NW	1019.6	10	10.0	2.0	0.0	51.4	1.0	0.5	1.0	Clear	
2023	1	3	5	0	0	21.5	71.5	18.5	NW	1019.7	10	10.0	2.0	0.0	51.5	1.0	0.5	1.0	Clear	
2023	1	3	6	0	0	21.6	71.6	18.6	NW	1019.8	10	10.0	2.0	0.0	51.6	1.0	0.5	1.0	Clear	
2023	1	3	7	0	0	21.7	71.7	18.7	NW	1019.9	10	10.0	2.0	0.0	51.7	1.0	0.5	1.0	Clear	
2023	1	3	8	0	0	21.8	71.8	18.8	NW	1020.0	10	10.0	2.0	0.0	51.8	1.0	0.5	1.0	Clear	
2023	1	3	9	0	0	21.9	71.9	18.9	NW	1020.1	10	10.0	2.0	0.0	51.9	1.0	0.5	1.0	Clear	
2023	1	3	10	0	0	22.0	72.0	19.0	NW	1020.2	10	10.0	2.0	0.0	52.0	1.0	0.5	1.0	Clear	
2023	1	3	11	0	0	22.1	72.1	19.1	NW	1020.3	10	10.0	2.0	0.0	52.1	1.0	0.5	1.0	Clear	
2023	1	3	12	0	0	22.2	72.2	19.2	NW	1020.4	10	10.0	2.0	0.0	52.2	1.0	0.5	1.0	Clear	
2023	1	3	13	0	0	22.3	72.3	19.3	NW	1020.5	10	10.0	2.0	0.0	52.3	1.0	0.5	1.0	Clear	
2023	1	3	14	0	0	22.4	72.4	19.4	NW	1020.6	10	10.0	2.0	0.0	52.4	1.0	0.5	1.0	Clear	
2023	1	3																		

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Year	Month	Day	Hour	Minute	Second	Temperature (°C)	Humidity (%)	Wind Speed (km/h)	Wind Direction (°)	Pressure (hPa)	Cloud Cover (%)	Visibility (km)	UV Index	Precipitation (mm)	Soil Moisture (%)	Plant Growth Index	Animal Activity Index	Human Activity Index	Weather Forecast
2023	01	01	00	00	00	15.2	65.1	12.5	135	1013.2	15	10	3	0.0	45.2	1.2	0.5	0.1	Partly Cloudy
			01	01	01	15.3	65.2	12.6	136	1013.3	16	11	3	0.0	45.3	1.2	0.5	0.1	Partly Cloudy
			02	02	02	15.4	65.3	12.7	137	1013.4	17	12	3	0.0	45.4	1.2	0.5	0.1	Partly Cloudy
			03	03	03	15.5	65.4	12.8	138	1013.5	18	13	3	0.0	45.5	1.2	0.5	0.1	Partly Cloudy
			04	04	04	15.6	65.5	12.9	139	1013.6	19	14	3	0.0	45.6	1.2	0.5	0.1	Partly Cloudy
			05	05	05	15.7	65.6	13.0	140	1013.7	20	15	3	0.0	45.7	1.2	0.5	0.1	Partly Cloudy
			06	06	06	15.8	65.7	13.1	141	1013.8	21	16	3	0.0	45.8	1.2	0.5	0.1	Partly Cloudy
			07	07	07	15.9	65.8	13.2	142	1013.9	22	17	3	0.0	45.9	1.2	0.5	0.1	Partly Cloudy
			08	08	08	16.0	65.9	13.3	143	1014.0	23	18	3	0.0	46.0	1.2	0.5	0.1	Partly Cloudy
			09	09	09	16.1	66.0	13.4	144	1014.1	24	19	3	0.0	46.1	1.2	0.5	0.1	Partly Cloudy
2023	01	02	00	00	00	15.2	65.1	12.5	135	1013.2	15	10	3	0.0	45.2	1.2	0.5	0.1	Partly Cloudy
			01	01	01	15.3	65.2	12.6	136	1013.3	16	11	3	0.0	45.3	1.2	0.5	0.1	Partly Cloudy
			02	02	02	15.4	65.3	12.7	137	1013.4	17	12	3	0.0	45.4	1.2	0.5	0.1	Partly Cloudy
			03	03	03	15.5	65.4	12.8	138	1013.5	18	13	3	0.0	45.5	1.2	0.5	0.1	Partly Cloudy
			04	04	04	15.6	65.5	12.9	139	1013.6	19	14	3	0.0	45.6	1.2	0.5	0.1	Partly Cloudy
			05	05	05	15.7	65.6	13.0	140	1013.7	20	15	3	0.0	45.7	1.2	0.5	0.1	Partly Cloudy
			06	06	06	15.8	65.7	13.1	141	1013.8	21	16	3	0.0	45.8	1.2	0.5	0.1	Partly Cloudy
			07	07	07	15.9	65.8	13.2	142	1013.9	22	17	3	0.0	45.9	1.2	0.5	0.1	Partly Cloudy
			08	08	08	16.0	65.9	13.3	143	1014.0	23	18	3	0.0	46.0	1.2	0.5	0.1	Partly Cloudy
			09	09	09	16.1	66.0	13.4	144	1014.1	24	19	3	0.0	46.1	1.2	0.5	0.1	Partly Cloudy
2023	01	03	00	00	00	15.2	65.1	12.5	135	1013.2	15	10	3	0.0	45.2	1.2	0.5	0.1	Partly Cloudy
			01	01	01	15.3	65.2	12.6	136	1013.3	16	11	3	0.0	45.3	1.2	0.5	0.1	Partly Cloudy
			02	02	02	15.4	65.3	12.7	137	1013.4	17	12	3	0.0	45.4	1.2	0.5	0.1	Partly Cloudy
			03	03	03	15.5	65.4	12.8	138	1013.5	18	13	3	0.0	45.5	1.2	0.5	0.1	Partly Cloudy
			04	04	04	15.6	65.5	12.9	139	1013.6	19	14	3	0.0	45.6	1.2	0.5	0.1	Partly Cloudy
			05	05	05	15.7	65.6	13.0	140	1013.7	20	15	3	0.0	45.7	1.2	0.5	0.1	Partly Cloudy
			06	06	06	15.8	65.7	13.1	141	1013.8	21	16	3	0.0	45.8	1.2	0.5	0.1	Partly Cloudy
			07	07	07	15.9	65.8	13.2	142	1013.9	22	17	3	0.0	45.9	1.2	0.5	0.1	Partly Cloudy
			08	08	08	16.0	65.9	13.3	143	1014.0	23	18	3	0.0	46.0	1.2	0.5	0.1	Partly Cloudy
			09	09	09	16.1	66.0	13.4	144	1014.1	24	19	3	0.0	46.1	1.2	0.5	0.1	Partly Cloudy
2023	01	04	00	00	00	15.2	65.1	12.5	135	1013.2	15	10	3	0.0	45.2	1.2	0.5	0.1	Partly Cloudy
			01	01	01	15.3	65.2	12.6	136	1013.3	16	11	3	0.0	45.3	1.2	0.5	0.1	Partly Cloudy
			02	02	02	15.4	65.3	12.7	137	1013.4	17	12	3	0.0	45.4	1.2	0.5	0.1	Partly Cloudy
			03	03	03	15.5	65.4	12.8	138	1013.5	18	13	3	0.0	45.5	1.2	0.5	0.1	Partly Cloudy
			04	04	04	15.6	65.5	12.9	139	1013.6	19	14	3	0.0	45.6	1.2	0.5	0.1	Partly Cloudy
			05	05	05	15.7	65.6	13.0	140	1013.7	20	15	3	0.0	45.7	1.2	0.5	0.1	Partly Cloudy
			06	06	06	15.8	65.7	13.1	141	1013.8	21	16	3	0.0	45.8	1.2	0.5	0.1	Partly Cloudy
			07	07	07	15.9	65.8	13.2	142	1013.9	22	17	3	0.0	45.9	1.2	0.5	0.1	Partly Cloudy
			08	08	08	16.0	65.9	13.3	143	1014.0	23	18	3	0.0	46.0	1.2	0.5	0.1	Partly Cloudy
			09	09	09	16.1	66.0	13.4	144	1014.1	24	19	3	0.0	46.1	1.2	0.5	0.1	Partly Cloudy
2023	01	05	00	00	00	15.2	65.1	12.5	135	1013.2	15	10	3	0.0	45.2	1.2	0.5	0.1	Partly Cloudy
			01	01	01	15.3	65.2	12.6	136	1013.3	16	11	3	0.0	45.3	1.2	0.5	0.1	Partly Cloudy
			02	02	02	15.4	65.3	12.7	137	1013.4	17	12	3	0.0	45.4	1.2	0.5	0.1	Partly Cloudy
			03	03	03	15.5	65.4	12.8	138	1013.5	18	13	3	0.0	45.5	1.2	0.5	0.1	Partly Cloudy
			04	04	04	15.6	65.5	12.9	139	1013.6	19	14	3	0.0	45.6	1.2	0.5	0.1	Partly Cloudy
			05	05	05	15.7	65.6	13.0	140	1013.7	20	15	3	0.0	45.7	1.2	0.5	0.1	Partly Cloudy
			06	06	06	15.8	65.7	13.1	141	1013.8	21	16	3	0.0	45.8	1.2	0.5	0.1	Partly Cloudy
			07	07	07	15.9	65.8	13.2	142	1013.9	22	17	3	0.0	45.9	1.2	0.5	0.1	Partly Cloudy
			08	08	08	16.0	65.9	13.3	143	1014.0	23	18	3	0.0	46.0	1.2	0.5	0.1	Partly Cloudy
			09	09	09	16.1	66.0	13.4	144	1014.1	24	19	3	0.0	46.1	1.2	0.5	0.1	Partly Cloudy
2023	01	06	00	00	00	15.2	65.1	12.5	135	1013.2	15	10	3	0.0	45.2	1.2	0.5	0.1	Partly Cloudy
			01	01	01	15.3	65.2	12.6	136	1013.3	16	11	3	0.0	45.3	1.2	0.5	0.1	Partly Cloudy
			02	02	02	15.4	65.3	12.7	137	1013.4	17	12	3	0.0	45.4	1.2	0.5	0.1	Partly Cloudy
			03	03	03	15.5	65.4	12.8	138	1013.5	18	13	3	0.0	45.5	1.2	0.5	0.1	Partly Cloudy
			04	04	04	15.6	65.5	12.9	139	1013.6	19	14	3	0.0	45.6	1.2	0.5	0.1	Partly Cloudy
			05	05	05	15.7	65.6	13.0	140	1013.7	20	15	3	0.0	45.7	1.2	0.5	0.1	Partly Cloudy
			06	06	06	15.8	65.7	13.1	141	1013.8	21	16	3	0.0	45.8	1.2	0.5	0.1	Partly Cloudy
			07	07	07	15.9	65.8	13.2	142	1013.9	22	17	3	0.0	45.9	1.2	0.5	0.1	Partly Cloudy
			08	08	08	16.0	65.9	13.3	143	1014.0	23	18	3	0.0	46.0	1.2	0.5	0.1	Partly Cloudy
			09	09	09	16.1	66.0	13.4	144	1014.1	24	19	3	0.0	46.1	1.2	0.5	0.1	Partly Cloudy
2023	01	07	00	00	00	15.2	65.1	12.5	135	1013.2	15	10	3	0.0	45.2	1.2	0.5	0.1	Partly Cloudy
			01	01	01	15.3	65.2	12.6	136	1013.3	16	11	3	0.0	45.3	1.2	0.5	0.1	Partly Cloudy
			02	02	02	15.4	65.3	12.7	137	1013.4	17	12	3	0.0	45.4	1.2	0.5	0.1	Partly Cloudy
			03	03	03	15.5	65.4	12.8	138	1013.5	18	13	3	0.0	45.5	1.2	0.5	0.1	Partly Cloudy
			04	04	04	15.6	65.5	12.9	139	1013.6	19	14	3	0.0	45.6	1.2	0.5	0.1	Partly Cloudy
			05	05	05	15.7	65.6	13.0	140	1013.7	20	15	3	0.0	45.7	1.2	0.5	0.1	Partly Cloudy
			06	06	06	15.8	65.7	13.1	141	1013.8	21	16	3	0.0	45.8	1.2	0.5	0.1	Partly Cloudy
			07	07	07	15.9	65.8	13.2	142	1013.9	22	17	3	0.0	45.9	1.2	0.5	0.1	Partly Cloudy
			08	08	08	16.0	65.9	13.3	143	1014.0	23	18	3	0.0	46.0	1.2	0.5	0.1	Partly Cloudy
			09	09	09	16.1	66.0	13.4	144	1014.1	24	19	3	0.0	46.1	1.2	0.5	0.1	Partly Cloudy
2023	01	08	00	00	00	15.2	65.1	12.5	135	1013.2	15	10	3	0.0	45.2	1.2	0.5	0.1	Partly Cloudy
			01	01	01	15.3	65.2	12.6	136	1013.3	16	11	3	0.0	45.3	1.2	0.5	0.1	Partly Cloudy
			02	02	02	15.4	65.3	12.7	137	1013.4	17	12	3	0.0	45.4	1.2	0.5	0.1	Partly Cloudy
			03	03	03	15.5	65.4	12.8	138	1013.5	18	13	3	0.0	45.5	1.2	0.5	0.1	Partly Cloudy
			04	04	04	15.6	65.5	12.9	139	1013.6	19	14	3	0.0	45.6	1.2	0.5	0.1	Partly Cloudy
			05	05	05	15.7	65.6	13.0	140	1013.7	20	15	3	0.0	45.7	1.2	0.5	0.1	Partly Cloudy
			06	06	06	15.8	65.7	13.1	141	1013.8	21	16	3	0.0	45.8	1.2	0.5	0.1	Partly Cloudy
			07	07	07	15.9	65.8	13.2	142	1013.9	22	17	3	0.0	45.9	1.2	0.5	0.1	Partly Cloudy
			08	08	08	16.0	65.9	13.3	143	1014.0	23	18	3	0.0	46.0	1.2	0.5	0.1	Partly Cloudy
			09	09	09	16.1	66.0	13.4	144	1014.1	24	19	3	0.0	46.1	1.2	0.5	0.1	Partly Cloudy
2023	01	09	00	00	00	15.2	65.1	12.5	135	1013.2	15	10	3	0.0	45.2	1.2	0.5	0.1	Partly Cloudy
			01	01	01	15.3	65.2	12.6	136	1013.3	16	11	3	0.0	45.3	1.2	0.5	0.1	Partly Cloudy
			02	02	02	15.4	65.3	12.7	137	1013.4	17	12	3	0.0	45.4	1.2	0.5	0.1	Partly Cloudy
			03	03	03	15.5	65.4	12.8	138	1013.5	18	13	3	0.0	45.5	1.2	0.5	0.1	Partly Cloudy
			04	04	04	15.6	65.5	12.9	139	1013									

C-13

[illegible]

C-15

C-17

[illegible]

C-19

[illegible]

C-21

C-23

[illegible]

C-25

C-27

C-29

C-31

[illegible]

C-33

Facility	GNA ID	2022										2023										2024											
		Base Demand [MW]	Cumulative Demand [MW]	Facility Loading [%]	Facility Loading Limit [MW]	Residential PV [MW]	Non-Residential PV [MW]	EE [MW]	ES [MW]	LMOR [MW]	ES [MW]	Total DER Growth [MW]	Base Demand [MW]	Cumulative Demand [MW]	Facility Loading [%]	Facility Loading Limit [MW]	Residential PV [MW]	Non-Residential PV [MW]	EE [MW]	ES [MW]	LMOR [MW]	ES [MW]	Total DER Growth [MW]	Base Demand [MW]	Cumulative Demand [MW]	Facility Loading [%]	Facility Loading Limit [MW]	Residential PV [MW]	Non-Residential PV [MW]	EE [MW]	ES [MW]	LMOR [MW]	ES [MW]
on 66/12 (2)	-0.0164	17.61	24.55%	71.74	-0.0989	-0.0003	-0.0302	0.1245	0.0000	-0.0022	-0.0131	-0.0131	17.60	24.53%	71.74	-0.1986	-0.0132	-0.0634	0.2517	0.0000	-0.0038	-0.0273	0.1471	17.75	24.74%	71.74	-0.2960	-0.0208	-0.0986	0.3700	-0.0000	-0.0000	0.3700
P.T. 33/12 (A)	0.0000	2.50	59.52%	4.20	-0.0026	-0.0001	-0.0013	0.0000	-0.0007	-0.0003	-0.0050	-0.0000	2.50	59.52%	4.20	-0.0005	-0.0002	-0.0011	0.0000	-0.0007	-0.0000	-0.0009	0.0000	2.49	59.29%	4.20	-0.0005	-0.0002	-0.0004	0.0000	-0.0000	-0.0000	
er 66/12 (2)	2.2119	149.66	96.54%	155.02	-0.6131	-0.1274	-0.3106	0.2495	0.0000	-0.0073	-0.8089	-0.8089	142.15	91.70%	155.02	-1.7859	-0.2598	-0.6041	0.5180	0.0000	-0.0168	-1.5776	4.2911	141.90	91.54%	155.02	-1.6935	-0.4060	-0.9676	0.7614	-0.0000	-0.0000	
esandro 115/12 (2)	0.1798	110.52	87.73%	128.89	-0.6879	-0.0788	-0.1854	0.1346	0.0000	-0.0050	-0.8235	-1.3847	107.51	83.41%	128.89	-1.3857	-0.1592	-0.3922	0.2743	0.0000	-0.0113	-1.6741	1.8881	107.18	83.10%	128.89	-1.6077	-0.4747	-0.6662	0.4070	-0.0000	-0.0000	
er 66/12 (2)	0.1291	68.04	77.99%	74.88	-0.0824	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	-0.0000	68.04	77.99%	74.88	-0.0824	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000	68.04	77.99%	74.88	-0.0824	-0.0000	-0.0000	0.0000	-0.0000	-0.0000	
ancho P.T. 33/12 (A)	0.1438	112.60	85.73%	144.88	-0.2304	-0.1139	-0.2200	0.3323	0.0000	-0.0045	-0.2845	-1.3843	112.72	77.46%	144.88	-0.6769	-0.2950	-0.8687	0.6753	0.0000	-0.0085	-1.6768	1.7040	112.42	77.50%	144.88	-0.6075	-0.3729	-0.7490	0.1000	-0.0000	-0.0000	
ancho P.T. 33/12 (A)	-0.0075	9.57	52.28%	18.31	-0.0230	-0.0054	-0.0149	0.0581	0.0000	-0.0005	-0.0143	-0.0061	9.58	52.33%	18.31	-0.0467	-0.0133	-0.0237	0.1185	0.0000	-0.0009	-0.0269	-0.0056	9.40	51.53%	18.31	-0.0723	-0.0179	-0.0508	0.1712	-0.0000	-0.0000	
er 66/12 (2)	0.0000	0.57	87.82%	0.65	0.0000	-0.0000	-0.0000	0.0000	0.0000	-0.0003	-0.0003	0.0000	0.57	87.82%	0.65	0.0000	0.0000	-0.0000	0.0000	0.0000	-0.0002	-0.0008	0.0000	0.56	86.28%	0.65	0.0000	-0.0000	-0.0000	0.0000	-0.0000	-0.0000	
er 66/12 (2)	0.0000	33.69	68.04%	46.24	-0.0824	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	-0.0000	33.69	68.04%	46.24	-0.0824	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000	33.69	68.04%	46.24	-0.0824	-0.0000	-0.0000	0.0000	-0.0000	-0.0000	
er 66/12 (2)	0.0000	1.14	65.86%	1.73	0.0000	-0.0000	-0.0000	0.0001	0.0000	-0.0003	-0.0003	0.0000	1.14	65.86%	1.73	0.0000	0.0000	-0.0001	0.0023	0.0000	-0.0007	-0.0002	0.0000	1.14	65.86%	1.73	0.0000	-0.0000	-0.0002	0.0004	-0.0000	-0.0000	
er 66/12 (2)	0.2645	66.15	75.39%	87.74	-0.0701	-0.0808	-0.0583	0.1012	0.0000	-0.0093	-0.2443	-1.4687	112.70	76.99%	87.74	-0.1447	-0.1677	-0.3840	0.2043	0.0000	-0.0163	-0.5084	1.9648	112.40	76.82%	87.74	-0.2300	-0.2806	-0.5801	0.2968	-0.0000	-0.0000	
er 66/12 (2)	-0.0114	14.19	78.83%	18.00	-0.0224	-0.0038	-0.0226	0.0316	0.0000	-0.0010	-0.0088	-0.0111	14.17	78.72%	18.00	-0.0454	-0.0079	-0.0150	0.0658	0.0000	-0.0020	-0.0405	-0.0096	14.14	78.56%	18.00	-0.0639	-0.0120	-0.0800	0.0983	-0.0000	-0.0000	
er 66/12 (2)	0.1291	68.04	77.99%	74.88	-0.0824	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	-0.0000	68.04	77.99%	74.88	-0.0824	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000	68.04	77.99%	74.88	-0.0824	-0.0000	-0.0000	0.0000	-0.0000	-0.0000	
er 66/12 (2)	0.0112	1.66	92.21%	1.80	0.0000	-0.0000	-0.0018	0.0007	0.0000	-0.0003	-0.0014	-0.0011	1.66	92.21%	1.80	0.0000	0.0000	-0.0045	0.0015	0.0000	-0.0006	-0.0037	0.0111	1.66	92.21%	1.80	0.0000	-0.0000	-0.0005	0.0021	-0.0000	-0.0000	
er 66/12 (2)	0.0000	0.00	0.00%	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	-0.0000	-0.0000	0.00	0.00%	0.00	0.0000	0.0000	-0.0000	0.0002	0.0000	-0.0002	0.0000	0.00	0.00%	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
er 66/12 (2)	0.2545	82.75	87.45%	94.63	-0.0318	-0.0387	-0.1660	0.1194	0.0000	-0.0102	-0.1273	-0.1810	83.82	88.58%	94.63	-0.0658	-0.0811	-0.1582	0.2427	0.0000	-0.0170	-0.2794	1.4420	84.05	88.82%	94.63	-0.0966	-0.1277	-0.5173	0.3577	-0.0000	-0.0000	
er 66/12 (2)	0.0000	74.30	89.04%	80.00	-0.0824	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	-0.0000	74.30	89.04%	80.00	-0.0824	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000	74.30	89.04%	80.00	-0.0824	-0.0000	-0.0000	0.0000	-0.0000	-0.0000	
er 66/12 (2)	-0.0235	16.12	59.55%	27.07	-0.0196	-0.0007	-0.0136	0.0780	0.0000	-0.0005	-0.0436	-0.0229	16.17	59.73%	27.07	-0.0397	-0.0015	-0.0328	0.1600	0.0000	-0.0008	-0.0852	0.2692	15.63	61.06%	27.07	-0.0509	-0.0023	-0.0520	0.2340	-0.0000	-0.0000	
er 66/12 (2)	-0.0173	88.22	81.02%	108.89	-0.2810	-0.0223	-0.1339	0.1261	0.0000	-0.0055	-0.3166	-0.3735	108.89	88.48%	108.89	-0.4846	-0.0486	-0.3060	0.2887	0.0000	-0.0123	-0.5828	0.4241	88.09	89.90%	108.89	-0.7017	-0.0742	-0.4678	0.3938	-0.0000	-0.0000	
er 66/12 (2)	-0.1879	81.64	76.86%	106.91	-0.1788	-0.0418	-0.1470	0.0828	0.0000	-0.0079	-0.4827	-0.6286	88.11	82.41%	106.91	-0.9085	-0.1000	-0.2534	0.1616	0.0000	-0.0027	-1.1920	0.6277	90.10	84.77%	106.91	-1.1326	-0.1607	-0.5115	0.2736	-0.0000	-0.0000	
er 66/12 (2)	0.0000	88.96	90.00%	80.00	-0.0824	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	-0.0000	88.96	90.00%	80.00	-0.0824	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000	88.96	90.00%	80.00	-0.0824	-0.0000	-0.0000	0.0000	-0.0000	-0.0000	
er 66/12 (2)	-0.0164	12.20	38.60%	32.13	-0.0166	-0.0014	-0.0123	0.0545	0.0000	-0.0014	-0.0238	-0.0149	12.24	37.48%	32.13	-0.0319	-0.0029	-0.0382	0.1157	0.0000	-0.0028	-0.0499	-0.0145	9.87	30.72%	32.13	-0.0457	-0.0045	-0.0436	0.1013	-0.0000	-0.0000	
er 66/12 (2)	0.5048	92.50	97.52%	94.64	-0.3945	-0.0413	-0.1073	0.1863	0.0000	-0.0041	-0.3309	-0.9025	88.78	93.79%	94.64	-0.7570	-0.0846	-0.2343	0.3946	0.0000	-0.0091	-0.6984	12.1074	99.92	76.23%	131.04	-1.0887	-0.1161	-1.3403	0.0595	-0.0000	-0.0000	
er 66/12 (2)	0.0000	120.4	79.99%	120.4	-0.3816	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	-0.0000	120.4	79.99%	120.4	-0.3816	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000	120.4	79.99%	120.4	-0.3816	-0.0000	-0.0000	0.0000	-0.0000	-0.0000	
er 66/12 (2)	-0.0201	14.83	84.73%	17.54	-0.0157	-0.0024	-0.0158	0.0077	0.0000	-0.0011	-0.0273	-0.0186	14.80	84.36%	17.54	-0.0325	-0.0050	-0.0346	0.0397	0.0000	-0.0020	-0.0584	-0.0186	14.76	84.31%	17.54	-0.0482	-0.0079	-0.0547	0.0229	-0.0000	-0.0000	
er 66/12 (2)	0.8241	43.80	64.05%	7.38	-0.1922	-0.0000	-0.0762	0.0593	0.0000	-0.0074	-0.1802	-0.9255	43.33	63.36%	68.38	-0.4143	0.0000	-0.1621	0.1954	0.0000	-0.0150	-0.3960	0.9783	42.58	62.27%	68.38	-0.5459	-0.0000	-0.2401	0.3039	-0.0000	-0.0000	
er 66/12 (2)	-0.0111	5.54	76.07%	6.28	-0.0131	-0.0006	-0.0087	0.0242	0.0000	-0.0010	-0.0008	-0.0000	5.54	76.07%	6.28	-0.0286	-0.0013	-0.0185	0.0496	0.0000	-0.0022	-0.0000	0.0000	5.52	75.80%	6.28	-0.0592	-0.0027	-0.0272	0.0373	-0.0000	-0.0000	
er 66/12 (2)	0.0000	1.14	56.59%	1.02	-0.0022	-0.0001	-0.0013	0.0043	0.0000	-0.0002	-0.0002	-0.0000	1.17	57.02%	1.02	-0.0000	0.0000	-0.0002	0.0016	0.0000	-0.0002	-0.0001	0.0000	1.18	57.02%	1.02	-0.0000	-0.0000	-0.0000	0.0000	-0.0000	-0.0000	
er 66/12 (2)	-0.0353	6.702	72.35%	92.63	-0.0822	-0.0495	-0.1181	0.3303	0.0000	-0.0018	-0.0787	-0.0787	66.66	75.21%	92.63	-0.1593	-0.1025	-0.2600	0.6797	0.0000	-0.0035	-0.1534	-0.0298	69.77	75.32%	92.63	-0.2169	-0.1847	-0.4051	0.1095	-0.0000	-0.0000	
er 66/12 (2)	0.1088	7.33	120.12%	7.33	-0.0016	-0.0000	-0.0046	0.0188	0.0000	-0.0003	-0.0123	-0.3447	7.44	109.64%	7.44	-0.0035	0.0000	-0.0108	0.0385	0.0000	-0.0006	-0.0236	0.0460	7.36	98.86%	7.44	-0.0056	-0.0000	-0.0057	0.0075	-0.0000	-0.0000	
er 66/12 (2)	-0.0057	53.64	90.59%	59.26	-0.1954	-0.0234	-0.0678	0.2863	0.0000	-0.0019	-0.5252	-0.4040	53.56	90.34%	59.26	-0.3894	-0.0491	-0.1614	0.4794	0.0000	-0.0037	-0.1243	-0.3874	53.48	90.25%	59.26	-0.5656	-0.0773	-0.2535	0.7093	-0.0000	-0.0000	
er 66/12 (2)	0.1132	120.0	81.62%	120.0	-0.3816	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	-0.0000	120.0	81.62%	120.0	-0.3816	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000	120.0	81.62%	120.0	-0.3816	-0.0000	-0.0000	0.0000	-0.0000	-0.0000	
er 66/12 (2)	-0.1193	33.64	29.22%	124.19	-0.2603	-0.0138	-0.0661	0.0866	0.0000	-0.0002	-0.2534	-1.2669	34.04	27.41%	124.19	-0.5309	-0.0190	-0.1413	0.1766	0.0000	-0.0003	-0.1243	-1.2870	33.71	27.21%	124.19	-0.7568	-0.0646	-0.2185	0.2593	-0.0000	-0.0000	
er 66/12 (2)	0.0262	0.00	0.00%	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0																							

LMDR (MW) ²¹	ES (MW) ²²	Total DER Growth (MW) ²³	2025										2026										Deficiency (MW)										Deficiency (%)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
			Base Demand (MW) ²⁴		Cumulative Demand (MW) ²⁵		Facility Loading (MW) ²⁶		Facility Loading Limit (MW) ²⁷		Residential PV (MW) ²⁸		Non-Residential PV (MW) ²⁹		EE (MW) ³⁰		LMDR (MW) ³¹		ES (MW) ³²		Total DER Growth (MW) ³³		Base Demand (MW) ³⁴		Cumulative Demand (MW) ³⁵		Facility Loading (MW) ³⁶		Facility Loading Limit (MW) ³⁷		Residential PV (MW) ³⁸		Non-Residential PV (MW) ³⁹		EE (MW) ⁴⁰		LMDR (MW) ⁴¹		ES (MW) ⁴²		Total DER Growth (MW) ⁴³		Base Demand (MW) ⁴⁴		Cumulative Demand (MW) ⁴⁵		Facility Loading (MW) ⁴⁶		Facility Loading Limit (MW) ⁴⁷		Residential PV (MW) ⁴⁸		Non-Residential PV (MW) ⁴⁹		EE (MW) ⁵⁰		LMDR (MW) ⁵¹		ES (MW) ⁵²		Total DER Growth (MW) ⁵³		Base Demand (MW) ⁵⁴		Cumulative Demand (MW) ⁵⁵		Facility Loading (MW) ⁵⁶		Facility Loading Limit (MW) ⁵⁷		Residential PV (MW) ⁵⁸		Non-Residential PV (MW) ⁵⁹		EE (MW) ⁶⁰		LMDR (MW) ⁶¹		ES (MW) ⁶²		Total DER Growth (MW) ⁶³		Base Demand (MW) ⁶⁴		Cumulative Demand (MW) ⁶⁵		Facility Loading (MW) ⁶⁶		Facility Loading Limit (MW) ⁶⁷		Residential PV (MW) ⁶⁸		Non-Residential PV (MW) ⁶⁹		EE (MW) ⁷⁰		LMDR (MW) ⁷¹		ES (MW) ⁷²		Total DER Growth (MW) ⁷³		Base Demand (MW) ⁷⁴		Cumulative Demand (MW) ⁷⁵		Facility Loading (MW) ⁷⁶		Facility Loading Limit (MW) ⁷⁷		Residential PV (MW) ⁷⁸		Non-Residential PV (MW) ⁷⁹		EE (MW) ⁸⁰		LMDR (MW) ⁸¹		ES (MW) ⁸²		Total DER Growth (MW) ⁸³		Base Demand (MW) ⁸⁴		Cumulative Demand (MW) ⁸⁵		Facility Loading (MW) ⁸⁶		Facility Loading Limit (MW) ⁸⁷		Residential PV (MW) ⁸⁸		Non-Residential PV (MW) ⁸⁹		EE (MW) ⁹⁰		LMDR (MW) ⁹¹		ES (MW) ⁹²		Total DER Growth (MW) ⁹³		Base Demand (MW) ⁹⁴		Cumulative Demand (MW) ⁹⁵		Facility Loading (MW) ⁹⁶		Facility Loading Limit (MW) ⁹⁷		Residential PV (MW) ⁹⁸		Non-Residential PV (MW) ⁹⁹		EE (MW) ¹⁰⁰		LMDR (MW) ¹⁰¹		ES (MW) ¹⁰²		Total DER Growth (MW) ¹⁰³		Base Demand (MW) ¹⁰⁴		Cumulative Demand (MW) ¹⁰⁵		Facility Loading (MW) ¹⁰⁶		Facility Loading Limit (MW) ¹⁰⁷		Residential PV (MW) ¹⁰⁸		Non-Residential PV (MW) ¹⁰⁹		EE (MW) ¹¹⁰		LMDR (MW) ¹¹¹		ES (MW) ¹¹²		Total DER Growth (MW) ¹¹³		Base Demand (MW) ¹¹⁴		Cumulative Demand (MW) ¹¹⁵		Facility Loading (MW) ¹¹⁶		Facility Loading Limit (MW) ¹¹⁷		Residential PV (MW) ¹¹⁸		Non-Residential PV (MW) ¹¹⁹		EE (MW) ¹²⁰		LMDR (MW) ¹²¹		ES (MW) ¹²²		Total DER Growth (MW) ¹²³		Base Demand (MW) ¹²⁴		Cumulative Demand (MW) ¹²⁵		Facility Loading (MW) ¹²⁶		Facility Loading Limit (MW) ¹²⁷		Residential PV (MW) ¹²⁸		Non-Residential PV (MW) ¹²⁹		EE (MW) ¹³⁰		LMDR (MW) ¹³¹		ES (MW) ¹³²		Total DER Growth (MW) ¹³³		Base Demand (MW) ¹³⁴		Cumulative Demand (MW) ¹³⁵		Facility Loading (MW) ¹³⁶		Facility Loading Limit (MW) ¹³⁷		Residential PV (MW) ¹³⁸		Non-Residential PV (MW) ¹³⁹		EE (MW) ¹⁴⁰		LMDR (MW) ¹⁴¹		ES (MW) ¹⁴²		Total DER Growth (MW) ¹⁴³		Base Demand (MW) ¹⁴⁴		Cumulative Demand (MW) ¹⁴⁵		Facility Loading (MW) ¹⁴⁶		Facility Loading Limit (MW) ¹⁴⁷		Residential PV (MW) ¹⁴⁸		Non-Residential PV (MW) ¹⁴⁹		EE (MW) ¹⁵⁰		LMDR (MW) ¹⁵¹		ES (MW) ¹⁵²		Total DER Growth (MW) ¹⁵³		Base Demand (MW) ¹⁵⁴		Cumulative Demand (MW) ¹⁵⁵		Facility Loading (MW) ¹⁵⁶		Facility Loading Limit (MW) ¹⁵⁷		Residential PV (MW) ¹⁵⁸		Non-Residential PV (MW) ¹⁵⁹		EE (MW) ¹⁶⁰		LMDR (MW) ¹⁶¹		ES (MW) ¹⁶²		Total DER Growth (MW) ¹⁶³		Base Demand (MW) ¹⁶⁴		Cumulative Demand (MW) ¹⁶⁵		Facility Loading (MW) ¹⁶⁶		Facility Loading Limit (MW) ¹⁶⁷		Residential PV (MW) ¹⁶⁸		Non-Residential PV (MW) ¹⁶⁹		EE (MW) ¹⁷⁰		LMDR (MW) ¹⁷¹		ES (MW) ¹⁷²		Total DER Growth (MW) ¹⁷³		Base Demand (MW) ¹⁷⁴		Cumulative Demand (MW) ¹⁷⁵		Facility Loading (MW) ¹⁷⁶		Facility Loading Limit (MW) ¹⁷⁷		Residential PV (MW) ¹⁷⁸		Non-Residential PV (MW) ¹⁷⁹		EE (MW) ¹⁸⁰		LMDR (MW) ¹⁸¹		ES (MW) ¹⁸²		Total DER Growth (MW) ¹⁸³		Base Demand (MW) ¹⁸⁴		Cumulative Demand (MW) ¹⁸⁵		Facility Loading (MW) ¹⁸⁶		Facility Loading Limit (MW) ¹⁸⁷		Residential PV (MW) ¹⁸⁸		Non-Residential PV (MW) ¹⁸⁹		EE (MW) ¹⁹⁰		LMDR (MW) ¹⁹¹		ES (MW) ¹⁹²		Total DER Growth (MW) ¹⁹³		Base Demand (MW) ¹⁹⁴		Cumulative Demand (MW) ¹⁹⁵		Facility Loading (MW) ¹⁹⁶		Facility Loading Limit (MW) ¹⁹⁷		Residential PV (MW) ¹⁹⁸		Non-Residential PV (MW) ¹⁹⁹		EE (MW) ²⁰⁰		LMDR (MW) ²⁰¹		ES (MW) ²⁰²		Total DER Growth (MW) ²⁰³		Base Demand (MW) ²⁰⁴		Cumulative Demand (MW) ²⁰⁵		Facility Loading (MW) ²⁰⁶		Facility Loading Limit (MW) ²⁰⁷		Residential PV (MW) ²⁰⁸		Non-Residential PV (MW) ²⁰⁹		EE (MW) ²¹⁰		LMDR (MW) ²¹¹		ES (MW) ²¹²		Total DER Growth (MW) ²¹³		Base Demand (MW) ²¹⁴		Cumulative Demand (MW) ²¹⁵		Facility Loading (MW) ²¹⁶		Facility Loading Limit (MW) ²¹⁷		Residential PV (MW) ²¹⁸		Non-Residential PV (MW) ²¹⁹		EE (MW) ²²⁰		LMDR (MW) ²²¹		ES (MW) ²²²		Total DER Growth (MW) ²²³		Base Demand (MW) ²²⁴		Cumulative Demand (MW) ²²⁵		Facility Loading (MW) ²²⁶		Facility Loading Limit (MW) ²²⁷		Residential PV (MW) ²²⁸		Non-Residential PV (MW) ²²⁹		EE (MW) ²³⁰		LMDR (MW) ²³¹		ES (MW) ²³²		Total DER Growth (MW) ²³³		Base Demand (MW) ²³⁴		Cumulative Demand (MW) ²³⁵		Facility Loading (MW) ²³⁶		Facility Loading Limit (MW) ²³⁷		Residential PV (MW) ²³⁸		Non-Residential PV (MW) ²³⁹		EE (MW) ²⁴⁰		LMDR (MW) ²⁴¹		ES (MW) ²⁴²		Total DER Growth (MW) ²⁴³		Base Demand (MW) ²⁴⁴		Cumulative Demand (MW) ²⁴⁵		Facility Loading (MW) ²⁴⁶		Facility Loading Limit (MW) ²⁴⁷		Residential PV (MW) ²⁴⁸		Non-Residential PV (MW) ²⁴⁹		EE (MW) ²⁵⁰		LMDR (MW) ²⁵¹		ES (MW) ²⁵²		Total DER Growth (MW) ²⁵³		Base Demand (MW) ²⁵⁴		Cumulative Demand (MW) ²⁵⁵		Facility Loading (MW) ²⁵⁶		Facility Loading Limit (MW) ²⁵⁷		Residential PV (MW) ²⁵⁸		Non-Residential PV (MW) ²⁵⁹		EE (MW) ²⁶⁰		LMDR (MW) ²⁶¹		ES (MW) ²⁶²		Total DER Growth (MW) ²⁶³		Base Demand (MW) ²⁶⁴		Cumulative Demand (MW) ²⁶⁵		Facility Loading (MW) ²⁶⁶		Facility Loading Limit (MW) ²⁶⁷		Residential PV (MW) ²⁶⁸		Non-Residential PV (MW) ²⁶⁹		EE (MW) ²⁷⁰		LMDR (MW) ²⁷¹		ES (MW) ²⁷²		Total DER Growth (MW) ²⁷³		Base Demand (MW) ²⁷⁴		Cumulative Demand (MW) ²⁷⁵		Facility Loading (MW) ²⁷⁶		Facility Loading Limit (MW) ²⁷⁷		Residential PV (MW) ²⁷⁸		Non-Residential PV (MW) ²⁷⁹		EE (MW) ²⁸⁰		LMDR (MW) ²⁸¹		ES (MW) ²⁸²		Total DER Growth (MW) ²⁸³		Base Demand (MW) ²⁸⁴		Cumulative Demand (MW) ²⁸⁵		Facility Loading (MW) ²⁸⁶		Facility Loading Limit (MW) ²⁸⁷		Residential PV (MW) ²⁸⁸		Non-Residential PV (MW) ²⁸⁹		EE (MW) ²⁹⁰		LMDR (MW) ²⁹¹		ES (MW) ²⁹²		Total DER Growth (MW) ²⁹³		Base Demand (MW) ²⁹⁴		Cumulative Demand (MW) ²⁹⁵		Facility Loading (MW) ²⁹⁶		Facility Loading Limit (MW) ²⁹⁷		Residential PV (MW) ²⁹⁸		Non-Residential PV (MW) ²⁹⁹		EE (MW) ³⁰⁰		LMDR (MW) ³⁰¹		ES (MW) ³⁰²		Total DER Growth (MW) ³⁰³		Base Demand (MW) ³⁰⁴		Cumulative Demand (MW) ³⁰⁵		Facility Loading (MW) ³⁰⁶		Facility Loading Limit (MW) ³⁰⁷		Residential PV (MW) ³⁰⁸		Non-Residential PV (MW) ³⁰⁹		EE (MW) ³¹⁰		LMDR (MW) ³¹¹		ES (MW) ³¹²		Total DER Growth (MW) ³¹³		Base Demand (MW) ³¹⁴		Cumulative Demand (MW) ³¹⁵		Facility Loading (MW) ³¹⁶		Facility Loading Limit (MW) ³¹⁷		Residential PV (MW) ³¹⁸		Non-Residential PV (MW) ³¹⁹		EE (MW) ³²⁰		LMDR (MW) ³²¹		ES (MW) ³²²		Total DER Growth (MW) ³²³		Base Demand (MW) ³²⁴		Cumulative Demand (MW) ³²⁵		Facility Loading (MW) ³²⁶		Facility Loading Limit (MW) ³²⁷		Residential PV (MW) ³²⁸		Non-Residential PV (MW) ³²⁹		EE (MW) ³³⁰		LMDR (MW) ³³¹		ES (MW) ³³²		Total DER Growth (MW) ³³³		Base Demand (MW) ³³⁴		Cumulative Demand (MW) ³³⁵		Facility Loading (MW) ³³⁶		Facility Loading Limit (MW) ³³⁷		Residential PV (MW) ³³⁸		Non-Residential PV (MW) ³³⁹		EE (MW) ³⁴⁰		LMDR (MW) ³⁴¹		ES (MW) ³⁴²		Total DER Growth (MW) ³⁴³		Base Demand (MW) ³⁴⁴		Cumulative Demand (MW) ³⁴⁵		Facility Loading (MW) ³⁴⁶		Facility Loading Limit (MW) ³⁴⁷		Residential PV (MW) ³⁴⁸		Non-Residential PV (MW) ³⁴⁹		EE (MW) ³⁵⁰		LMDR (MW) ³⁵¹		ES (MW) ³⁵²		Total DER Growth (MW) ³⁵³		Base Demand (MW) ³⁵⁴		Cumulative Demand (MW) ³⁵⁵		Facility Loading (MW) ³⁵⁶		Facility Loading Limit (MW) ³⁵⁷		Residential PV (MW) ³⁵⁸		Non-Residential PV (MW) ³⁵⁹		EE (MW) ³⁶⁰		LMDR (MW) ³⁶¹		ES (MW) ³⁶²		Total DER Growth (MW) ³⁶³		Base Demand (MW) ³⁶⁴		Cumulative Demand (MW) ³⁶⁵		Facility Loading (MW) ³⁶⁶		Facility Loading Limit (MW) ³⁶⁷		Residential PV (MW) ³⁶⁸		Non-Residential PV (MW) ³⁶⁹		EE (MW) ³⁷⁰		LMDR (MW) ³⁷¹		ES (MW) ³⁷²		Total DER Growth (MW) ³⁷³		Base Demand (MW) ³⁷⁴		Cumulative Demand (MW) ³⁷⁵		Facility Loading (MW) ³⁷⁶		Facility Loading Limit (MW) ³⁷⁷		Residential PV (MW) ³⁷⁸		Non-Residential PV (MW) ³⁷⁹		EE (MW) ³⁸⁰		LMDR (MW) ³⁸¹		ES (MW) ³⁸²		Total DER Growth (MW) ³⁸³		Base Demand (MW) ³⁸⁴		Cumulative Demand (MW) ³⁸⁵		Facility Loading (MW) ³⁸⁶		Facility Loading Limit (MW) ³⁸⁷		Residential PV (MW) ³⁸⁸		Non-Residential PV (MW) ³⁸⁹		EE (MW) ³⁹⁰		LMDR (MW) ³⁹¹		ES (MW) ³⁹²		Total DER Growth (MW) ³⁹³		Base Demand (MW) ³⁹⁴		Cumulative Demand (MW) ³⁹⁵		Facility Loading (MW) ³⁹⁶		Facility Loading Limit (MW) ³⁹⁷		Residential PV (MW) ³⁹⁸		Non-Residential PV (MW) ³⁹⁹		EE (MW) ⁴⁰⁰		LMDR (MW) ⁴⁰¹		ES (MW) ⁴⁰²		Total DER Growth (MW) ⁴⁰³		Base Demand (MW) ⁴⁰⁴		Cumulative Demand (MW) ⁴⁰⁵		Facility Loading (MW) ⁴⁰⁶		Facility Loading Limit (MW) ⁴⁰⁷		Residential PV (MW) ⁴⁰⁸		Non-Residential PV (MW) ⁴⁰⁹		EE (MW) ⁴¹⁰		LMDR (MW) ⁴¹¹		ES (MW) ⁴¹²		Total DER Growth (MW) ⁴¹³		Base Demand (MW) ⁴¹⁴		Cumulative Demand (MW) ⁴¹⁵		Facility Loading (MW) ⁴¹⁶		Facility Loading Limit (MW) ⁴¹⁷		Residential PV (MW) ⁴¹⁸		Non-Residential PV (MW) ⁴¹⁹		EE (MW) ⁴²⁰		LMDR (MW) ⁴²¹		ES (MW) ⁴²²		Total DER Growth (MW) ⁴²³		Base Demand (MW) ⁴²⁴		Cumulative Demand (MW) ⁴²⁵		Facility Loading (MW) ⁴²⁶		Facility Loading Limit (MW) ⁴²⁷		Residential PV (MW) ⁴²⁸		Non-Residential PV (MW) ⁴²⁹		EE (MW) ⁴³⁰		LMDR (MW) ⁴³¹		ES (MW) ⁴³²		Total DER Growth (MW) ⁴³³		Base Demand (MW) ⁴³⁴		Cumulative Demand (MW) ⁴³⁵		Facility Loading (MW) ⁴³⁶		Facility Loading Limit (MW) ⁴³⁷		Residential PV (MW) ⁴³⁸		Non-Residential PV (MW) ⁴³⁹		EE (MW) ⁴⁴⁰		LMDR (MW) ⁴⁴¹		ES (MW) ⁴⁴²		Total DER Growth (MW) ⁴⁴³		Base Demand (MW) ⁴⁴⁴		Cumulative Demand (MW) ⁴⁴⁵		Facility Loading (MW) ⁴⁴⁶		Facility Loading Limit (MW) ⁴⁴⁷		Residential PV (MW) ⁴⁴⁸		Non-Residential PV (MW) ⁴⁴⁹		EE (MW) ⁴⁵⁰		LMDR (MW) ⁴⁵¹		ES (MW) ⁴⁵²		Total DER Growth (MW) ⁴⁵³		Base Demand (MW) ⁴⁵⁴		Cumulative Demand (MW) ⁴⁵⁵		Facility Loading (MW) ⁴⁵⁶		Facility Loading Limit (MW) ⁴⁵⁷		Residential PV (MW) ⁴⁵⁸		Non-Residential PV (MW) ⁴⁵⁹		EE (MW) ⁴⁶⁰		LMDR (MW) ⁴⁶¹		ES (MW) ⁴⁶²		Total DER Growth (MW) ⁴⁶³		Base Demand (MW) ⁴⁶⁴		Cumulative Demand (MW) ⁴⁶⁵		Facility Loading (MW) ⁴⁶⁶		Facility Loading Limit (MW) ⁴⁶⁷		Residential PV (MW) ⁴⁶⁸		Non-Residential PV (MW) ⁴⁶⁹		EE (MW) ⁴⁷⁰		LMDR (MW) ⁴⁷¹		ES (MW) ⁴⁷²		Total DER Growth (MW) ⁴⁷³		Base Demand (MW) ⁴⁷⁴		Cumulative Demand (MW) ⁴⁷⁵		Facility Loading (MW) ⁴⁷⁶		Facility Loading Limit (MW) ⁴⁷⁷		Residential PV (MW) ⁴⁷⁸		Non-Residential PV (MW) ⁴⁷⁹		EE (MW) ⁴⁸⁰		LMDR (MW) ⁴⁸¹		ES (MW) ⁴⁸²		Total DER Growth (MW) ⁴⁸³		Base Demand (MW) ⁴⁸⁴		Cumulative Demand (MW) ⁴⁸⁵		Facility Loading (MW) ⁴⁸⁶		Facility Loading Limit (MW) ⁴⁸⁷		Residential PV (MW) ⁴⁸⁸		Non-Residential PV (MW) ⁴⁸⁹		EE (MW) ⁴⁹⁰		LMDR (MW) ⁴⁹¹		ES (MW) ⁴⁹²		Total DER Growth (MW) ⁴⁹³		Base Demand (MW) ⁴⁹⁴		Cumulative Demand (MW) ⁴⁹⁵		Facility Loading (MW) ⁴⁹⁶		Facility Loading Limit (MW) ⁴⁹⁷		Residential PV (MW) ⁴⁹⁸		Non-Residential PV (MW) ⁴⁹⁹		EE (MW) ⁵⁰⁰		LMDR (MW) ⁵⁰¹		ES (MW) ⁵⁰²		Total DER Growth (MW) ⁵⁰³		Base Demand (MW) ⁵⁰⁴		Cumulative Demand (MW) ⁵⁰⁵		Facility Loading (MW) ⁵⁰⁶		Facility Loading Limit (MW) ⁵⁰⁷		Residential PV (MW) ⁵⁰⁸		Non-Residential PV (MW) ⁵⁰⁹		EE (MW) ⁵¹⁰		LMDR (MW) ⁵¹¹		ES (MW) ⁵¹²		Total DER Growth (MW) ⁵¹³		Base Demand (MW) ⁵¹⁴		Cumulative Demand (MW) ⁵¹⁵		Facility Loading (MW) ⁵¹⁶		Facility Loading Limit (MW) ⁵¹⁷		Residential PV (MW) ⁵¹⁸		Non-Residential PV (MW) ⁵¹⁹		EE (MW) ⁵²⁰		LMDR (MW) ⁵²¹		ES (MW) ⁵²²		Total DER Growth (MW) ⁵²³		Base Demand (MW) ⁵²⁴		Cumulative Demand (MW) ⁵²⁵		Facility Loading (MW) ⁵²⁶		Facility Loading Limit (MW) ⁵²⁷		Residential PV (MW) ⁵²⁸		Non-Residential PV (MW) ⁵²⁹		EE (MW) ⁵³⁰		LMDR (MW) ⁵³¹		ES (MW) ⁵³²		Total DER Growth (MW) ⁵³³		Base Demand (MW) ⁵³⁴		Cumulative Demand (MW) ⁵³⁵		Facility Loading (MW) ⁵³⁶		Facility Loading Limit (MW) ⁵³⁷		Residential PV (MW) ⁵³⁸		Non-Residential PV (MW) ⁵³⁹		EE (MW) ⁵⁴⁰		LMDR (MW) ⁵⁴¹		ES (MW) ⁵⁴²		Total DER Growth (MW) ⁵⁴³		Base Demand (MW) ⁵⁴⁴		Cumulative Demand (MW) ⁵⁴⁵		Facility Loading (MW) ⁵⁴⁶		Facility Loading Limit (MW) ⁵⁴⁷		Residential PV (MW) ⁵⁴⁸		Non-Residential PV (MW) ⁵⁴⁹		EE (MW) ⁵⁵⁰		LMDR (MW) ⁵⁵¹		ES (MW) ⁵⁵²		Total DER Growth (MW) ⁵⁵³		Base Demand (MW) ⁵⁵⁴		Cumulative Demand (MW) ⁵⁵⁵		Facility Loading (MW) ⁵⁵⁶		Facility Loading Limit (MW) ⁵⁵⁷		Residential PV (MW) ⁵⁵⁸		Non-Residential PV (MW) ⁵⁵⁹		EE (MW) ⁵⁶⁰		LMDR (MW) ⁵⁶¹		ES (MW) ⁵⁶²		Total DER Growth (MW) ⁵⁶³		Base Demand (MW) ⁵⁶⁴		Cumulative Demand (MW) ⁵⁶⁵		Facility Loading (MW) ⁵⁶⁶		Facility Loading Limit (MW) ⁵⁶⁷		Residential PV (MW) ⁵⁶⁸		Non-Residential PV (MW) ⁵⁶⁹		EE (MW) ⁵⁷⁰		LMDR (MW) ⁵⁷¹		ES (MW) ⁵⁷²		Total DER Growth (MW) ⁵⁷³		Base Demand (MW) ⁵⁷⁴		Cumulative Demand (MW) ⁵⁷⁵		Facility Loading (MW) ⁵⁷⁶		Facility Loading Limit (MW) ⁵⁷⁷		Residential PV (MW) ⁵⁷⁸		Non-Residential PV (MW) ⁵⁷⁹		EE (MW) ⁵⁸⁰		LMDR (MW) ⁵⁸¹		ES (MW) ⁵⁸²		Total DER Growth (MW) ⁵⁸³		Base Demand (MW) ⁵⁸⁴		Cumulative Demand (MW) ⁵⁸⁵		Facility Loading (MW) ⁵⁸⁶		Facility Loading Limit (MW) ⁵⁸⁷		Residential PV (MW) ⁵⁸⁸		Non-Residential PV	

Facility	GNA ID	2022										2023										2024									
		Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential PV (MW)	Non-Residential PV (MW)	EE (MW)	LMWR (MW)	ES (MW)	Total DER Growth (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential PV (MW)	Non-Residential PV (MW)	ES (MW)	LMWR (MW)	ES (MW)	Total DER Growth (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential PV (MW)	Non-Residential PV (MW)	ES (MW)	LMWR (MW)	ES (MW)	Total DER Growth (MW)
6.16/4 (E)	-0.0243	43.87	66.62%	65.85	-0.1075	-0.0156	-0.0709	0.1294	0.0000	-0.0039	-0.0685	0.3752	44.23	67.16%	65.85	-0.1234	-0.0120	-0.1500	0.2764	0.0000	-0.0076	-0.1264	0.5510	44.36	67.36%	65.85	-0.3048	-0.0491	-0.2367	0.4129	
6.16/4 (E)	0.0000				0.0000	0.0000	0.0000	0.0001	0.0000	0.0003	0.0022	0.0000			0.0000	0.0000	0.0000	0.0008	0.0000	0.0000	0.0004	0.0000			0.0000	0.0000	0.0000	0.0000	0.0005		
P.T. 12/24 (A)	0.0061	0.35	69.91%	0.51	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0007	0.0106	0.36	71.11%	0.51	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0003	0.0136	0.36	71.11%	0.51	0.0000	0.0000	0.0000	0.0006	
6.16/4 (E)	-0.0037	1.41	23.70%	5.95	-0.0011	0.0000	-0.0015	0.0134	0.0000	0.0003	0.0105	-0.0037	1.42	23.87%	5.95	-0.0023	0.0000	-0.0037	0.0273	0.0000	0.0000	-0.0037	0.0007	1.43	24.03%	5.95	-0.0034	0.0000	0.0007	0.0099	
6.16/4 (E)	0.0000	108.13	90.02%	108.13	-0.0646	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	108.13	90.02%	108.13	-0.0646	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	108.13	90.02%	108.13	-0.0646	-0.0000	0.0000	0.0000		
6.16/4 (E)	-0.0478	35.15	48.28%	72.80	0.0000	0.0000	-0.0073	0.2679	0.0000	-0.0126	0.1840	3.9819	39.50	54.26%	72.80	0.0000	0.0000	-0.1470	0.5451	0.0000	-0.0266	0.3715	46.882	40.40	55.49%	72.80	0.0000	-0.2209	0.7970		
6.16/4 (E)	1.2945	125.18	87.41%	143.21	-0.5332	-0.1131	-0.2207	0.2598	0.0000	-0.0075	-0.5747	3.6019	126.94	88.64%	143.21	-0.1150	-0.2488	-0.4803	0.5827	0.0000	-0.0013	-0.4747	146.888	117.35	88.92%	143.21	-0.1708	-0.3957	0.7290	0.8519	
6.16/4 (E)	0.0000	112.23	80.81%	86.39	-0.9456	-0.0288	-0.0484	0.0199	0.0000	-0.0011	-0.1024	0.0000	112.23	80.81%	86.39	-0.9225	-0.0849	-0.0900	0.0403	0.0000	-0.0013	-0.2885	-0.0008	120.01	80.25%	86.39	-1.1408	-0.9404	-0.1394	0.5997	
6.16/4 (E)	0.0000	31.78	61.32%	31.78	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	31.78	61.32%	31.78	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	31.78	61.32%	31.78	0.0000	0.0000	0.0000	0.0000		
6.16/4 (E)	0.4790	21.01	36.31%	58.15	-0.0000	-0.0062	-0.0412	0.0007	0.0000	0.0014	-0.0183	3.0196	23.38	40.21%	58.15	-0.0047	-0.0018	-0.0854	0.0652	0.0000	-0.0023	-0.0334	4.0218	24.41	41.98%	58.15	-0.0066	-0.0169	-0.1264	0.9064	
6.16/4 (E)	0.5426	103.68	79.57%	130.30	-0.1286	-0.1883	-0.3300	0.2526	0.0000	-0.0078	-0.4021	10.5552	103.68	79.57%	130.30	-0.1286	-0.1883	-0.3300	0.2526	0.0000	-0.0078	-0.4021	103.68	79.57%	130.30	-0.1286	-0.1883	-0.3300	0.2526		
6.16/4 (E)	0.0000	108.13	90.02%	108.13	-0.0646	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	108.13	90.02%	108.13	-0.0646	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	108.13	90.02%	108.13	-0.0646	-0.0000	0.0000	0.0000		
6.16/4 (E)	0.7475	92.23	85.06%	108.43	-0.2435	-0.1210	-0.1996	0.2260	0.0000	-0.0033	-0.3414	1.8200	95.37	88.33%	108.43	-0.2523	-0.2542	-0.4313	0.4522	0.0000	-0.0058	-0.7634	2.7705	95.82	88.33%	108.43	-0.7605	-0.4000	-0.6508	0.6615	
6.16/4 (E)	0.6725	95.08	74.66%	127.35	-0.3287	-0.0536	-0.1176	0.0426	0.0000	-0.0025	-0.0404	0.0000	95.22	74.77%	127.35	-0.3287	-0.0536	-0.1176	0.0426	0.0000	-0.0025	-0.0404	0.0000	95.22	74.77%	127.35	-0.3287	-0.0536	-0.1176	0.0426	
6.16/4 (E)	-0.0033	2.40	36.92%	6.50	-0.0004	0.0000	-0.0025	0.0000	0.0000	0.0000	0.0000	-0.0033	2.40	36.92%	6.50	-0.0008	0.0000	-0.0025	0.0000	0.0000	0.0000	-0.0033	2.40	36.92%	6.50	-0.0012	0.0000	0.0000	0.0018		
6.16/4 (E)	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000			
6.16/4 (E)	-0.0511	98.80	85.13%	116.06	-0.1658	-0.0463	-0.1334	0.2669	0.0000	-0.0029	-0.0822	-0.0419	98.80	85.03%	116.06	-0.1658	-0.0463	-0.1334	0.2669	0.0000	-0.0029	-0.0822	0.0396	98.80	84.92%	116.06	-0.4703	-0.1519	-0.4719	0.9823	
6.16/4 (E)	-0.0348	16.39	63.91%	25.78	-0.0247	-0.0012	-0.0163	0.1182	0.0000	-0.0015	0.0745	-0.0347	16.44	63.77%	25.78	-0.0634	-0.0029	-0.0408	0.2303	0.0000	-0.0023	-0.1209	-0.0335	16.49	63.96%	25.78	-0.0793	-0.0048	-0.0631	0.3121	
6.16/4 (E)	-0.0482	55.75	77.59%	71.85	-0.2408	-0.0341	-0.0840	0.0120	0.0000	-0.0011	-0.3500	-0.0424	55.38	77.08%	71.85	-0.4634	-0.0708	-0.1821	0.2038	0.0000	-0.0062	-0.6967	-0.0229	55.61	76.56%	71.85	-0.6735	-0.1111	-0.7793	0.8083	
6.16/4 (E)	-0.0000	1.551	0.88%	1.551	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.551	0.88%	1.551	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	1.551	0.88%	1.551	-0.0000	0.0000	0.0000	0.0000		
6.16/4 (E)	0.9565	49.30	56.48%	87.29	-0.0111	-0.0642	-0.1430	0.1557	0.0000	-0.0017	-0.0643	1.2839	55.47	63.54%	87.29	-0.0179	-0.1311	-0.2878	0.3562	0.0000	-0.0045	-0.0851	1.4654	55.61	63.70%	87.29	-0.0248	-0.2047	-0.4326	0.5938	
6.16/4 (E)	-0.0032	4.97	55.69%	8.92	-0.0109	-0.0020	-0.0085	0.0774	0.0000	-0.0007	0.0553	-0.0032	4.97	55.69%	8.92	-0.0113	-0.0021	-0.0170	0.1841	0.0000	-0.0023	-0.1514	-0.0032	55.61	57.93%	8.92	-0.0117	-0.0022	-0.0260	0.2808	
6.16/4 (E)	0.3041	41.19	56.75%	72.59	-0.2822	-0.0286	-0.0674	0.0794	0.0000	-0.0031	-0.3039	-0.0240	41.70	57.45%	72.59	-0.5239	-0.0589	-0.1438	0.1659	0.0000	-0.0058	-0.5655	1.3306	41.49	57.10%	72.59	-0.7357	-0.0901	-0.2250	0.2486	
6.16/4 (E)	0.0000	12.10	20.04%	26.90	-0.0046	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12.10	20.04%	26.90	-0.0046	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	12.10	20.04%	26.90	-0.0046	0.0000	0.0000	0.0000		
6.16/4 (E)	-0.0214	4.06	32.36%	12.36	-0.0015	-0.0004	-0.0093	0.0132	0.0000	-0.0012	0.0008	-0.0217	4.09	33.10%	12.36	-0.0029	-0.0006	-0.1481	0.0481	0.0000	-0.0021	-0.0263	-0.0217	4.09	33.10%	12.36	-0.0035	-0.0011	-0.0287	0.0617	
6.16/4 (E)	0.2688	67.79	94.02%	72.11	-0.1974	-0.0740	-0.1595	0.0777	0.0000	-0.0043	-0.3575	4.8257	72.24	100.18%	72.11	-0.3929	-0.1461	-0.3248	0.1621	0.0000	-0.0094	-0.7111	9.8345	72.14	100.04%	72.11	-0.5904	-0.2270	-0.4995	0.2372	
6.16/4 (E)	0.0000	0.00	0.00%	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0.00%	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0.00%	0.00	0.0000	0.0000	0.0000	0.0000			
6.16/4 (E)	0.0003	61.17	95.38%	64.13	-0.1362	-0.0410	-0.1213	0.1054	0.0000	-0.0036	-0.1517	1.2036	62.21	97.01%	64.13	-0.2739	-0.0606	-0.2590	0.3074	0.0000	-0.0070	-0.3185	1.3161	62.18	96.96%	64.13	-0.3843	-0.1291	-0.3935	0.4577	
6.16/4 (E)	-0.0048	2.91	75.10%	3.87	-0.0040	-0.0007	-0.0028	0.0069	0.0000	-0.0002	-0.0032	-0.0040	2.91	75.10%	3.87	-0.0133	-0.0015	-0.0062	0.0140	0.0000	-0.0009	-0.0073	-0.0049	2.90	74.84%	3.87	-0.0022	-0.0024	-0.0008	0.0025	
6.16/4 (E)	1.0916	141.59	88.24%	160.91	-0.4915	-0.1888	-0.2573	0.2179	0.0000	-0.0043	-0.6020	3.7644	143.61	89.25%	160.91	-1.0087	-0.3590	-0.5154	0.6755	0.0000	-0.0084	-1.2882	3.9682	143.11	88.94%	160.91	-1.4855	-0.6194	-0.8368	0.9581	
6.16/4 (E)	0.0000	70.20	76.82%	108.75	-0.1121	-0.0240	-0.0574	0.0246	0.0000	-0.0003	-0.0743	0.0000	70.20	76.82%	108.75	-0.1121	-0.0240	-0.0574	0.0246	0.0000	-0.0003	-0.0743	0.0000	70.20	76.82%	108.75	-0.1121	-0.0240	-0.0574	0.0246	
6.16/4 (E)	-0.0354	105.96	94.64%	111.64	-0.2888	-0.0718	-0.1976	0.1374	0.0000	-0.0043	-0.3421	1.4035	106.83	95.69%	111.64	-0.5737	-0.1504	-0.4221	0.4714	0.0000	-0.0084	-1.7072	1.4052	108.15	96.87%	111.64	-0.8409	-0.2366	-0.6582	0.9581	
6.16/4 (E)	0.0000				-0.0037	-0.0005	-0.0119	0.0007	0.0000	-0.0001	-0.0215	0.0007			0.0000	-0.0076	-0.0138	-0.0240	0.0015	0.0000	-0.0002	-0.0441	0.0007			-0.0113	-0.0217	-0.0346	0.0022		
6.16/4 (E)	-0.0000				-0.0005	-0.0006	-0.0006	0.0050	0.0000	0.0000	0.0033	0.0000			0.0000	-0.0010	-0.0012	-0.0102	0.0015	0.0000	-0.0004	0.0000			-0.0015	-0.0018	-0.0106	0.0149			
6.16/4 (E)	0.0000	2.86	19.23%	14.87	0.0000	0.0000	0.0000	0.0024	0.0000	0.0000	0.0007	0.0000	2.86	19.23%	14.87	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.86	19.23%	14.87	0.0000	0.0000	0.0000	0.0000		
6.16/4 (E)	0.0000	0.78	120.00%	0.65	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0007	0.0145	0.44	67.69%	0.65	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.44	67.69%	0.65	0.0000	0.0000	0.0000	0.0000		
6.16/4 (E)	-0.0125				-0.0160	-0.0862	-0.0468	0.0117	0.0000	-0.0073	-0.1446	-0.0065			0.0000	-0.0331	-0.1776	-0.0959	0.0240	0.0000	-0.0165	-0									

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C-39

Facility	GNA ID	2022														2023														2024													
		Base Demand (MW) ¹¹	Cumulative Demand (MW) ¹²	Facility Loading (%) ¹³	Facility Loading Limit (MW) ¹⁴	Residential PV (MW) ¹⁵	Non-Residential PV (MW) ¹⁶	EE (MW) ¹⁷	EV (MW) ¹⁸	LMDR (MW) ¹⁹	ES (MW) ²⁰	Total DER Growth (MW) ²¹	Base Demand (MW) ²²	Cumulative Demand (MW) ²³	Facility Loading (%) ²⁴	Facility Loading Limit (MW) ²⁵	Residential PV (MW) ²⁶	Non-Residential PV (MW) ²⁷	EE (MW) ²⁸	EV (MW) ²⁹	LMDR (MW) ³⁰	ES (MW) ³¹	Total DER Growth (MW) ³²	Base Demand (MW) ³³	Cumulative Demand (MW) ³⁴	Facility Loading (%) ³⁵	Facility Loading Limit (MW) ³⁶	Residential PV (MW) ³⁷	Non-Residential PV (MW) ³⁸	EE (MW) ³⁹	EV (MW) ⁴⁰	LMDR (MW) ⁴¹	ES (MW) ⁴²	Total DER Growth (MW) ⁴³									
Lennon Cove 66/12 (D)		-0.0021	10.46	28.74%	36.40	-0.0258	-0.0047	-0.137	0.0055	0.0000	0.0015	-0.0372	-0.0008	10.44	28.68%	36.40	-0.0354	-0.0071	-0.058	0.031	0.0000	-0.0002	-0.0554	-0.0003	-0.0043	10.41	28.60%	36.40	-0.0479	-0.0104	-0.046	0.0199	-0.0000	10.42	28.60%	36.40	-0.0479	-0.0104	-0.046	0.0199			
Lennon 16/4.16 (D)		0.0089	9.92	68.27%	14.53	-0.0090	-0.0043	-0.0126	0.0305	0.0000	-0.0008	0.0093	0.0085	10.01	68.89%	14.53	-0.0174	-0.0012	-0.0258	0.0701	0.0000	-0.0003	-0.0514	0.0148	10.05	69.16%	14.53	-0.0238	-0.0016	-0.046	0.0302	-0.0000	10.06	69.16%	14.53	-0.0238	-0.0016	-0.046	0.0302				
Little Rock 66/12 (D)		0.1567	32.75	67.48%	108.23	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	32.75	67.48%	108.23	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	32.75	67.48%	108.23	-0.0000	-0.0000	-0.0000	0.0000	0.0000	32.75	67.48%	108.23	-0.0000	-0.0000	-0.0000	0.0000					
Jerry 66/16 (D)		0.2501	45.91	95.65%	48.00	-0.0033	-0.0013	-0.1145	0.0861	0.0000	-0.0008	-0.0153	0.3818	3.8865	46.02	95.88%	48.00	-0.0697	-0.1550	-0.2397	0.1778	0.0000	-0.0258	-0.2918	4.4789	46.02	95.88%	48.00	-0.1077	-0.2481	-0.3406	0.2617	-0.0000	46.02	95.88%	48.00	-0.1077	-0.2481	-0.3406	0.2617			
Liberty 66/12 (D)		0.1221	115.53	79.72%	144.93	-0.0310	-0.0602	-0.1942	0.1265	0.0000	-0.0123	-0.4926	1.0672	115.98	80.03%	144.93	-0.0649	-0.1317	-0.4252	0.2517	0.0000	-0.0266	-0.1262	1.5015	115.90	79.97%	144.93	-0.1054	-0.3055	-0.6565	0.3727	-0.0000	144.93	79.97%	144.93	-0.1054	-0.3055	-0.6565	0.3727				
Lightstep 66/12 (D)		0.0054	4.41	82.84%	53.61	-0.0394	-0.0081	-0.1240	0.1181	0.0000	-0.0028	-0.1254	0.471	88.62%	53.61	82.84%	53.61	-0.0791	-0.1212	-0.2575	0.2427	0.0000	-0.0055	-0.2026	1.4101	47.52	88.64%	53.61	-0.1208	-0.1952	-0.8842	0.3481	-0.0000	53.61	88.64%	53.61	-0.1208	-0.1952	-0.8842	0.3481			
Longwood 66/12 (D)		0.3209	72.42	100.00%	72.42	-0.1580	-0.0323	-0.1580	0.1580	0.0000	0.0000	0.0000	0.0000	72.42	100.00%	72.42	-0.1580	-0.0323	-0.1580	0.1580	0.0000	0.0000	0.0000	0.0000	72.42	100.00%	72.42	-0.1580	-0.0323	-0.1580	0.1580	0.0000	72.42	100.00%	72.42	-0.1580	-0.0323	-0.1580	0.1580				
Linden 16/4.16 (D)	GNA_2022_173	0.0052	5.46	130.23%	4.58	-0.0027	-0.0006	-0.0374	0.0363	0.0000	-0.0020	0.0038	-0.0156	5.96	94.71%	6.29	-0.0059	-0.0005	-0.0173	0.0318	0.0000	-0.0031	-0.0202	-0.0156	5.96	94.71%	6.29	-0.0083	-0.0007	-0.0269	0.0407	-0.0000	6.29	94.71%	6.29	-0.0083	-0.0007	-0.0269	0.0407				
Linden 66/12 (D)		0.2018	35.12	48.24%	72.80	-0.0502	-0.0219	-0.0728	0.0174	0.0000	-0.0057	-0.1332	1.1594	36.01	49.46%	72.80	-0.0962	-0.0458	-0.1506	0.0360	0.0000	-0.0111	-0.2677	1.5657	36.30	49.06%	72.80	-0.1396	-0.0723	-0.2287	0.0537	-0.0000	72.80	49.06%	72.80	-0.1396	-0.0723	-0.2287	0.0537				
Line Creek 36/12 (D)		0.0000	0.00	0.00%	1.25	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0.00	0.00%	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0.00	0.00%	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0.00	0.00%	0.00	0.0000	0.0000	0.0000	0.0000				
Little Rock 66/12 (D)		0.1667	32.75	67.48%	72.80	-0.0899	-0.0072	-0.0333	0.0214	0.0000	-0.0005	-0.1570	1.5170	32.75	67.48%	72.80	-0.1501	-0.0142	-0.2741	0.0676	0.0000	0.0000	0.0000	0.0000	32.75	67.48%	72.80	-0.1932	-0.2054	-0.5144	0.2715	-0.0000	72.80	67.48%	72.80	-0.1932	-0.2054	-0.5144	0.2715				
Live Oak 16/4.16 (D)		0.0868	75.69	81.05%	93.43	-0.1793	-0.0267	-0.0878	0.2861	0.0000	-0.0046	-0.0183	0.3584	75.98	81.32%	93.43	-0.3416	-0.0558	-0.2040	0.5780	0.0000	-0.0089	-0.0323	0.4612	76.06	81.40%	93.43	-0.4906	-0.0877	-0.3199	0.8518	-0.0000	93.43	81.05%	93.43	-0.4906	-0.0877	-0.3199	0.8518				
Lockheed 66/16 (D)		0.1661	67.86	93.01%	72.53	-0.1595	-0.0760	-0.1394	0.0601	0.0000	-0.0059	-0.2247	1.4942	69.09	95.26%	72.53	-0.2943	-0.1658	-0.2835	0.1386	0.0000	-0.0093	-0.0493	0.2368	69.80	96.24%	72.53	-0.4177	-0.2517	-0.4276	0.5069	-0.0000	72.53	93.01%	72.53	-0.4177	-0.2517	-0.4276	0.5069				
Lorain 12/4.16 (D)		0.0002	10.84	88.82%	12.20	-0.0035	-0.0002	-0.0156	0.0196	0.0000	0.0000	-0.0017	-0.0003	10.84	88.82%	12.20	-0.0073	-0.0047	-0.0350	0.0398	0.0000	-0.0002	-0.0474	-0.0002	10.83	88.74%	12.20	-0.0112	-0.0073	-0.0516	0.0582	-0.0000	12.20	88.82%	12.20	-0.0112	-0.0073	-0.0516	0.0582				
Lorain 16/4.16 (D)		0.0000	11.51	100.00%	11.51	-0.0158	-0.0001	-0.0158	0.0158	0.0000	0.0000	0.0000	0.0000	11.51	100.00%	11.51	-0.0158	-0.0001	-0.0158	0.0158	0.0000	0.0000	0.0000	0.0000	11.51	100.00%	11.51	-0.0158	-0.0001	-0.0158	0.0158	0.0000	11.51	100.00%	11.51	-0.0158	-0.0001	-0.0158	0.0158				
Lucas 12/4.16 (D)		-0.0015	1.04	26.73%	3.89	-0.0005	-0.0001	-0.0011	0.0022	0.0000	-0.0005	-0.0045	-0.0005	1.04	26.73%	3.89	-0.0013	-0.0002	-0.0027	0.0040	0.0000	-0.0002	-0.0111	-0.0015	1.03	26.74%	3.89	-0.0138	-0.0002	-0.0041	0.0063	-0.0000	3.89	26.73%	3.89	-0.0138	-0.0002	-0.0041	0.0063				
Los Cerillos 12/4.16 (D)		-0.0166	7.04	94.66%	7.44	-0.0268	-0.0007	-0.0219	0.119	0.0407	0.0000	-0.0010	-0.0017	7.03	94.53%	7.44	-0.0509	-0.0052	-0.0723	0.084	0.0000	-0.0016	-0.0091	-0.0161	7.02	94.44%	7.44	-0.0841	-0.0085	-0.0423	0.1231	-0.0000	7.44	94.66%	7.44	-0.0841	-0.0085	-0.0423	0.1231				
Lucas 66/16 (D)		1.4429	48.71	88.42%	55.09	-0.0007	-0.0485	-0.1443	0.0912	0.0000	-0.0013	-0.1136	5.4954	48.60	88.22%	55.09	-0.0641	-0.1059	-0.2828	0.1797	0.0000	-0.0023	-0.2754	5.7256	48.72	88.44%	55.09	-0.0883	-0.1557	-0.4031	0.2796	-0.0000	55.09	88.42%	55.09	-0.0883	-0.1557	-0.4031	0.2796				
Lucas P.T. 16/12.16 (A)		-0.0004	1.26	10.40%	12.00	-0.0001	-0.0003	-0.0074	0.0000	0.0000	0.0000	0.0002	0.0000	1.26	10.40%	12.00	-0.0001	-0.0003	-0.0074	0.0000	0.0000	0.0000	0.0000	1.26	10.40%	12.00	-0.0001	-0.0003	-0.0074	0.0000	0.0000	12.00	10.40%	12.00	-0.0001	-0.0003	-0.0074	0.0000					
Lucas 66/12 (D)		0.2293	61.85	85.60%	72.25	-0.0536	-0.0690	-0.1532	0.2128	0.0000	-0.0019	-0.0469	0.2120	61.81	85.55%	72.25	-0.0705	-0.1443	-0.3181	0.4331	0.0000	-0.0038	-0.1036	0.2324	61.78	85.51%	72.25	-0.0911	-0.2112	-0.4842	0.6653	-0.0000	72.25	85.60%	72.25	-0.0911	-0.2112	-0.4842	0.6653				
Lucas 16/4.16 (D)		-0.0070	12.00	60.00%	19.28	-0.0239	-0.0012	-0.0511	0.0734	0.0000	-0.0007	-0.0345	0.0029	13.79	71.51%	19.28	-0.0464	-0.0025	-0.0533</																								

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Facility	GNA ID	2022										2023										2024										
		Base Demand (MW)	Cumulative Demand (MW)	Facility Loading Unit (%)	Facility Loading Unit (MW)	Residential PV (MW)	Non-Residential PV (MW)	EV (MW)	ES (MW)	LMOR (MW)	Total DER Growth (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading Unit (%)	Facility Loading Unit (MW)	Residential PV (MW)	Non-Residential PV (MW)	EV (MW)	ES (MW)	LMOR (MW)	Total DER Growth (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading Unit (%)	Facility Loading Unit (MW)	Residential PV (MW)	Non-Residential PV (MW)	EV (MW)	ES (MW)	LMOR (MW)	Total DER Growth (MW)	
Pedrus (66/12)		-0.1382	114.19	78.54%	145.39	-0.5017	-0.0407	-0.1764	0.4774	0.0000	-0.0094	-0.2508	0.7614	107.75	74.11%	145.39	-0.0064	-0.0833	-0.3898	0.9722	0.0000	-0.0188	-0.5243	0.7635	107.40	73.87%	145.39	-1.4918	-0.1299	-0.6039	1.4249	
Painted Cave T1 1612.4 (A)		0.0001	18.18	60.29%	0.30	0.0000	-0.0001	0.0001	0.0006	0.0000	0.0001	0.0004	0.0000	0.0000	0.0001	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Palm Canyon 33/12 (D)		-0.0008	28.65	88.27%	32.46	-0.0009	-0.0011	0.0466	0.0400	0.0000	-0.0003	-0.0779	0.0009	28.62	88.18%	32.46	-0.1230	-0.0233	-0.0001	0.0892	0.0000	-0.0006	-0.1638	0.0856	28.55	87.96%	32.46	-0.1806	-0.0367	-0.1543	0.1301	
Palm Canyon 33/12 (D)		-0.0001	4.57	79.90%	4.15	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	-0.0001	0.0000	4.16	79.90%	4.15	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.16	79.90%	4.15	-0.0001	0.0000	0.0000	0.0000	
Palm Springs 33/12 (D)		-0.0014	5.51	26.23%	21.01	-0.0004	-0.0007	0.0005	0.0000	0.0000	-0.0007	-0.0243	0.0100	5.48	26.11%	21.01	-0.0411	-0.0042	-0.0169	0.0132	0.0000	-0.0015	-0.0505	0.0134	5.46	26.00%	21.01	-0.0004	-0.0066	-0.0262	0.0193	
Palm Valley 33/12 (D)		-0.0071	48.49	86.42%	56.11	-0.1888	-0.0408	-0.1040	0.0402	0.0000	-0.0050	-0.1324	0.0322	48.19	85.89%	56.11	-0.3461	-0.1081	-0.2208	0.0872	0.0000	-0.0120	-0.5998	-0.0320	47.90	85.37%	56.11	-0.4833	-0.1628	-0.3421	0.1326	
Palmdale (66/12)	GNA_2022_217	0.0135	125.37	109.54%	114.46	-0.4317	-0.0554	-0.1679	0.0879	0.0000	-0.0061	-0.5352	0.8029	125.06	95.88%	130.43	-0.7813	-0.0714	-0.3854	0.1958	0.0000	-0.0138	-1.0661	1.2817	123.04	94.33%	130.43	-1.1786	-0.1130	-0.5841	0.2722	
Parker Verde 16/14 (B)		0.0000	2.77	76.66%	2.64	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.64	76.66%	2.64	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.64	76.66%	2.64	0.0000	0.0000	0.0000	0.0000	
Parker Strip 33/12 (D)		-0.0017	4.85	99.49%	4.88	-0.0004	-0.0001	0.0009	0.0001	0.0000	-0.0002	-0.0085	-0.0029	4.84	99.28%	4.88	-0.0009	-0.0023	-0.0156	0.0002	0.0000	-0.0004	-0.0019	0.0000	4.83	99.08%	4.88	-0.0004	-0.0326	-0.0237	0.0003	
Parsons (66/12)		0.2089	69.60	74.34%	93.62	-0.2094	-0.0511	-0.1059	0.1882	0.0000	-0.0100	-0.1792	0.5352	69.72	74.47%	93.62	-0.4231	-0.1072	-0.2469	0.3826	0.0000	-0.0109	-0.9565	0.6486	69.60	74.34%	93.62	-0.6253	-0.1689	-0.3884	0.5639	
Peckham 66/12 (D)		0.2785	62.86	86.12%	72.41	-0.1230	-0.0233	-0.0001	0.0892	0.0000	-0.0006	-0.1638	0.0856	28.55	87.96%	32.46	-0.1230	-0.0233	-0.0001	0.0892	0.0000	-0.0006	-0.1638	0.0856	28.55	87.96%	32.46	-0.1806	-0.0367	-0.1543	0.1301	
Peckham 66/12 (D)		0.2785	62.86	86.12%	72.41	-0.1230	-0.0233	-0.0001	0.0892	0.0000	-0.0006	-0.1638	0.0856	28.55	87.96%	32.46	-0.1230	-0.0233	-0.0001	0.0892	0.0000	-0.0006	-0.1638	0.0856	28.55	87.96%	32.46	-0.1806	-0.0367	-0.1543	0.1301	
Peacock U.S. 16/14 (A)		-0.0005	0.27	17.97%	1.50	0.0000	0.0000	-0.0002	0.0036	0.0000	-0.0003	-0.0002	0.0005	0.27	17.97%	1.50	0.0000	0.0000	0.0005	0.0073	0.0000	-0.0004	0.0004	-0.0005	0.28	18.613%	1.50	0.0000	0.0000	-0.0008	0.0107	
Peason T1 33/12 (A)		-0.0003	1.66	11.61%	1.80	0.0000	0.0000	0.0006	0.0006	0.0000	-0.0003	-0.0003	0.0006	1.46	81.11%	1.80	0.0000	0.0000	0.0014	0.0133	0.0000	-0.0006	0.0007	0.0007	1.46	81.11%	1.80	0.0000	0.0000	-0.0023	0.0019	
Pease 16/16 (D)		-0.0003	1.66	11.61%	1.80	0.0000	0.0000	0.0006	0.0006	0.0000	-0.0003	-0.0003	0.0006	1.46	81.11%	1.80	0.0000	0.0000	0.0014	0.0133	0.0000	-0.0006	0.0007	0.0007	1.46	81.11%	1.80	0.0000	0.0000	-0.0023	0.0019	
Pechanga 115/12 (D)		-0.0174	87.04	79.17%	109.20	-0.4526	-0.0292	-0.1279	0.2470	0.0000	-0.0114	-0.3841	-0.0088	86.30	79.03%	109.20	-1.1296	-0.0980	-0.2855	0.4592	0.0000	-0.0130	-1.0669	-0.0067	85.76	78.54%	109.20	-1.6238	-0.1511	-0.4459	0.6802	
Pechanga 115/13 (D)		-0.0104	60.68	74.20%	72.41	-0.0230	-0.0233	-0.0001	0.0892	0.0000	-0.0006	-0.1638	0.0856	28.55	87.96%	32.46	-0.1230	-0.0233	-0.0001	0.0892	0.0000	-0.0006	-0.1638	0.0856	28.55	87.96%	32.46	-0.1806	-0.0367	-0.1543	0.1301	
Pepper 66/12 (D)		0.6844	62.76	86.20%	72.41	-0.0230	-0.0233	-0.0001	0.0892	0.0000	-0.0006	-0.1638	0.0856	28.55	87.96%	32.46	-0.1230	-0.0233	-0.0001	0.0892	0.0000	-0.0006	-0.1638	0.0856	28.55	87.96%	32.46	-0.1806	-0.0367	-0.1543	0.1301	
Pepper 66/12 (D)		0.6844	62.76	86.20%	72.41	-0.0230	-0.0233	-0.0001	0.0892	0.0000	-0.0006	-0.1638	0.0856	28.55	87.96%	32.46	-0.1230	-0.0233	-0.0001	0.0892	0.0000	-0.0006	-0.1638	0.0856	28.55	87.96%	32.46	-0.1806	-0.0367	-0.1543	0.1301	
Pepper 115/12 (D)		0.0001	0.01	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.01	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.01	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
Pepper 115/12 (D)		0.0001	0.01	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.01	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.01	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23%	3.23	-0.0320	-0.0016	-0.0066	0.0138
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23%	3.23	-0.0320	-0.0016	-0.0066	0.0138
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23%	3.23	-0.0320	-0.0016	-0.0066	0.0138
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23%	3.23	-0.0320	-0.0016	-0.0066	0.0138
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23%	3.23	-0.0320	-0.0016	-0.0066	0.0138
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23%	3.23	-0.0320	-0.0016	-0.0066	0.0138
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23%	3.23	-0.0320	-0.0016	-0.0066	0.0138
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23%	3.23	-0.0320	-0.0016	-0.0066	0.0138
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23%	3.23	-0.0320	-0.0016	-0.0066	0.0138
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23%	3.23	-0.0320	-0.0016	-0.0066	0.0138
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23%	3.23	-0.0320	-0.0016	-0.0066	0.0138
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23%	3.23	-0.0320	-0.0016	-0.0066	0.0138
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23%	3.23	-0.0320	-0.0016	-0.0066	0.0138
Perra 33/16 (D)		0.1674	1.76	14.55%	3.23	-0.0003	-0.0005	0.0000	0.0046	0.0000	-0.0002	-0.0084	0.4186	2.04	63.23%	3.23	-0.0212	-0.0010	-0.0043	0.0094	0.0000	-0.0004	-0.0005	0.0175	0.5730	3.23	63.23					

UMDR (MW)	ES (MW)	Total DER Growth (MW) %	2025										2026										Total DER Growth (MW) %	2022*	2023*	2024*	2025*	2026*	2027*	2028*	2029*	2030*	2031*	2032*	2033*	2034*	2035*	2036*	2037*	2038*	2039*	2040*	2041*	2042*	2043*	2044*	2045*	2046*	2047*	2048*	2049*	2050*	2051*	2052*	2053*	2054*	2055*	2056*	2057*	2058*	2059*	2060*	2061*	2062*	2063*	2064*	2065*	2066*	2067*	2068*	2069*	2070*	2071*	2072*	2073*	2074*	2075*	2076*	2077*	2078*	2079*	2080*	2081*	2082*	2083*	2084*	2085*	2086*	2087*	2088*	2089*	2090*	2091*	2092*	2093*	2094*	2095*	2096*	2097*	2098*	2099*	2100*	2101*	2102*	2103*	2104*	2105*	2106*	2107*	2108*	2109*	2110*	2111*	2112*	2113*	2114*	2115*	2116*	2117*	2118*	2119*	2120*	2121*	2122*	2123*	2124*	2125*	2126*	2127*	2128*	2129*	2130*	2131*	2132*	2133*	2134*	2135*	2136*	2137*	2138*	2139*	2140*	2141*	2142*	2143*	2144*	2145*	2146*	2147*	2148*	2149*	2150*	2151*	2152*	2153*	2154*	2155*	2156*	2157*	2158*	2159*	2160*	2161*	2162*	2163*	2164*	2165*	2166*	2167*	2168*	2169*	2170*	2171*	2172*	2173*	2174*	2175*	2176*	2177*	2178*	2179*	2180*	2181*	2182*	2183*	2184*	2185*	2186*	2187*	2188*	2189*	2190*	2191*	2192*	2193*	2194*	2195*	2196*	2197*	2198*	2199*	2200*	2201*	2202*	2203*	2204*	2205*	2206*	2207*	2208*	2209*	2210*	2211*	2212*	2213*	2214*	2215*	2216*	2217*	2218*	2219*	2220*	2221*	2222*	2223*	2224*	2225*	2226*	2227*	2228*	2229*	2230*	2231*	2232*	2233*	2234*	2235*	2236*	2237*	2238*	2239*	2240*	2241*	2242*	2243*	2244*	2245*	2246*	2247*	2248*	2249*	2250*	2251*	2252*	2253*	2254*	2255*	2256*	2257*	2258*	2259*	2260*	2261*	2262*	2263*	2264*	2265*	2266*	2267*	2268*	2269*	2270*	2271*	2272*	2273*	2274*	2275*	2276*	2277*	2278*	2279*	2280*	2281*	2282*	2283*	2284*	2285*	2286*	2287*	2288*	2289*	2290*	2291*	2292*	2293*	2294*	2295*	2296*	2297*	2298*	2299*	2300*	2301*	2302*	2303*	2304*	2305*	2306*	2307*	2308*	2309*	2310*	2311*	2312*	2313*	2314*	2315*	2316*	2317*	2318*	2319*	2320*	2321*	2322*	2323*	2324*	2325*	2326*	2327*	2328*	2329*	2330*	2331*	2332*	2333*	2334*	2335*	2336*	2337*	2338*	2339*	2340*	2341*	2342*	2343*	2344*	2345*	2346*	2347*	2348*	2349*	2350*	2351*	2352*	2353*	2354*	2355*	2356*	2357*	2358*	2359*	2360*	2361*	2362*	2363*	2364*	2365*	2366*	2367*	2368*	2369*	2370*	2371*	2372*	2373*	2374*	2375*	2376*	2377*	2378*	2379*	2380*	2381*	2382*	2383*	2384*	2385*	2386*	2387*	2388*	2389*	2390*	2391*	2392*	2393*	2394*	2395*	2396*	2397*	2398*	2399*	2400*	2401*	2402*	2403*	2404*	2405*	2406*	2407*	2408*	2409*	2410*	2411*	2412*	2413*	2414*	2415*	2416*	2417*	2418*	2419*	2420*	2421*	2422*	2423*	2424*	2425*	2426*	2427*	2428*	2429*	2430*	2431*	2432*	2433*	2434*	2435*	2436*	2437*	2438*	2439*	2440*	2441*	2442*	2443*	2444*	2445*	2446*	2447*	2448*	2449*	2450*	2451*	2452*	2453*	2454*	2455*	2456*	2457*	2458*	2459*	2460*	2461*	2462*	2463*	2464*	2465*	2466*	2467*	2468*	2469*	2470*	2471*	2472*	2473*	2474*	2475*	2476*	2477*	2478*	2479*	2480*	2481*	2482*	2483*	2484*	2485*	2486*	2487*	2488*	2489*	2490*	2491*	2492*	2493*	2494*	2495*	2496*	2497*	2498*	2499*	2500*	2501*	2502*	2503*	2504*	2505*	2506*	2507*	2508*	2509*	2510*	2511*	2512*	2513*	2514*	2515*	2516*	2517*	2518*	2519*	2520*	2521*	2522*	2523*	2524*	2525*	2526*	2527*	2528*	2529*	2530*	2531*	2532*	2533*	2534*	2535*	2536*	2537*	2538*	2539*	2540*	2541*	2542*	2543*	2544*	2545*	2546*	2547*	2548*	2549*	2550*	2551*	2552*	2553*	2554*	2555*	2556*	2557*	2558*	2559*	2560*	2561*	2562*	2563*	2564*	2565*	2566*	2567*	2568*	2569*	2570*	2571*	2572*	2573*	2574*	2575*	2576*	2577*	2578*	2579*	2580*	2581*	2582*	2583*	2584*	2585*	2586*	2587*	2588*	2589*	2590*	2591*	2592*	2593*	2594*	2595*	2596*	2597*	2598*	2599*	2600*	2601*	2602*	2603*	2604*	2605*	2606*	2607*	2608*	2609*	2610*	2611*	2612*	2613*	2614*	2615*	2616*	2617*	2618*	2619*	2620*	2621*	2622*	2623*	2624*	2625*	2626*	2627*	2628*	2629*	2630*	2631*	2632*	2633*	2634*	2635*	2636*	2637*	2638*	2639*	2640*	2641*	2642*	2643*	2644*	2645*	2646*	2647*	2648*	2649*	2650*	2651*	2652*	2653*	2654*	2655*	2656*	2657*	2658*	2659*	2660*	2661*	2662*	2663*	2664*	2665*	2666*	2667*	2668*	2669*	2670*	2671*	2672*	2673*	2674*	2675*	2676*	2677*	2678*	2679*	2680*	2681*	2682*	2683*	2684*	2685*	2686*	2687*	2688*	2689*	2690*	2691*	2692*	2693*	2694*	2695*	2696*	2697*	2698*	2699*	2700*	2701*	2702*	2703*	2704*	2705*	2706*	2707*	2708*	2709*	2710*	2711*	2712*	2713*	2714*	2715*	2716*	2717*	2718*	2719*	2720*	2721*	2722*	2723*	2724*	2725*	2726*	2727*	2728*	2729*	2730*	2731*	2732*	2733*	2734*	2735*	2736*	2737*	2738*	2739*	2740*	2741*	2742*	2743*	2744*	2745*	2746*	2747*	2748*	2749*	2750*	2751*	2752*	2753*	2754*	2755*	2756*	2757*	2758*	2759*	2760*	2761*	2762*	2763*	2764*	2765*	2766*	2767*	2768*	2769*	2770*	2771*	2772*	2773*	2774*	2775*	2776*	2777*	2778*	2779*	2780*	2781*	2782*	2783*	2784*	2785*	2786*	2787*	2788*	2789
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Attachment D

2022 Distribution Deferral Opportunities Report Redacted Dataset

(PUBLIC VERSION)

GNA ID		DOOR ID	DOOR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment To Be Installed	Operating Date
GNA_2022_233	DOOR_2022_DV42	DOOR_2022_DVAR Plan_17	Pico 66/12 (D)	Admiral	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	12/31/2023	
GNA_2022_227	DOOR_2022_D136	DOOR_2022_347545	Passons 66/12 (D)	Alburits	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Increase Cable Size	Primary Feeder - Cable	6/1/2023	
GNA_2022_120	DOOR_2022_D237	DOOR_2022_8299_379635	Farrell 115/12 (D)	Alvera	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2024	
GNA_2022_120	DOOR_2022_D130	DOOR_2022_879027	Alvera 115/12 (D)	Alvera	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Construct Civil Projects, Replace Cable	Primary Feeder - Cable	9/30/2023	
GNA_2022_47	DOOR_2022_D303	DOOR_2022_8495_277962	Bunker 115/12 (D)	Ammo	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Install New Cable	Primary Feeder - Cable	6/1/2022	
GNA_2022_187	DOOR_2022_D204	DOOR_2022_8309_234806	Mira Loma 66/12 (D)	Andes	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023	
GNA_2022_22	DOOR_2022_D89	DOOR_2022_288603	Auld 115/12 (D)	Appaloosa	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install New Cable, Install (5) New Switches, Install (1) New 1200 kVAR Capacitor, Construct Civil Projects	Primary Feeder - Cable, Switch, Capacitor	6/1/2022	
GNA_2022_40	DOOR_2022_D176	DOOR_2022_8156_16416 (D)	Bunker 115/12 (D)	Beeler	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	4 kV to 12kV Conversion, Remove (72) 4kV Transformers and Install 12kV Transformers on 12kV Circuit	Primary Feeder - Cable, Switch, Capacitor, Transformer	6/1/2024	
GNA_2022_44	DOOR_2022_DV1	DOOR_2022_DVAR Plan_1	Colonia 66/16 (D)	Arnell	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	12/31/2022	
GNA_2022_165	DOOR_2022_D171	DOOR_2022_443042	Limestone 66/12 (D)	Arsevic	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Construct Civil Projects, Increase Cable Size, Install New Cable	Primary Feeder - Cable	12/31/2023	
GNA_2022_295	DOOR_2022_D62	DOOR_2022_243210	Viejo 66/12 (D)	Atento	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Remote Control Switch	Primary Feeder - Switch	10/1/2022	
GNA_2022_44	DOOR_2022_D106	DOOR_2022_332991	Bulls 66/16 (D)	Atlantic	Capacity	Increase Circuit Capacity	Increase Conductor Size	Primary Feeder - Overhead Conductor	12/31/2023	
GNA_2022_267	DOOR_2022_D40	DOOR_2022_231789	Shandin 115/12 (D)	Avanti	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Increase Cable Size, Install New Cable, Install (1) New Remote Automatic Recloser	Primary Feeder - Cable, Switch	5/1/2022	
GNA_2022_191	DOOR_2022_D74	DOOR_2022_247183	Downey 12/4.16 (D)	Anon	Capacity	Increase Circuit Capacity	Increase Conductor Size	Primary Feeder - Overhead Conductor	12/31/2022	
GNA_2022_191	DOOR_2022_D110	DOOR_2022_343569	Nallam 66/12 (D)	Avon	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, New Cable	Primary Feeder - Cable	6/1/2023	
GNA_2022_72	DOOR_2022_D1	DOOR_2022_202675	Truss 66/12 (D)	Banana	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Replace Conductor, Install (1) New Switch	Primary Feeder - Overhead Conductor, Switch	12/31/2023	
GNA_2022_78	DOOR_2022_D223	DOOR_2022_8155_979295	Concho 115/12 (D)	Bandana	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Construct Civil Projects, Increase Cable Size, Install (5) New Remote Automatic Reclosers	Primary Feeder - Cable, Switch	6/1/2022	
GNA_2022_89	DOOR_2022_DV32	DOOR_2022_DVAR Plan_7	Corte 66/12 (D)	Barbosa	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2023	
GNA_2022_48	DOOR_2022_D304	DOOR_2022_8495_277962	Bunker 115/12 (D)	Bazoka	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Install New Cable	Primary Feeder - Cable	6/1/2022	
GNA_2022_74	DOOR_2022_D253	DOOR_2022_8324_239185	Colonia 66/16 (D)	Beardley	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	12/31/2022	
GNA_2022_74	DOOR_2022_D255	DOOR_2022_8325_339553	Colonia 66/16 (D)	Beardley	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	
GNA_2022_23	DOOR_2022_D90	DOOR_2022_288603	Auld 115/12 (D)	Beeler	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install New Cable, Install (5) New Switches, Install (1) New 1200 kVAR Capacitor, Construct Civil Projects	Primary Feeder - Cable, Switch, Capacitor	6/1/2022	
GNA_2022_28	DOOR_2022_D937	DOOR_2022_D5934909_333089	Bain 66/12 (D)	Belgrave	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Substation Capacity, New Circuit	Install (1) New 28 MVA Transformer, Install (1) New 4.8 MVAR Capacitor Bank, Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line, Substation - Capacitor, Transformer	12/31/2023	
GNA_2022_94	DOOR_2022_DV43	DOOR_2022_DVAR Plan_8	Bender 66/12 (D)	Bender	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2022	
GNA_2022_101	DOOR_2022_D161	DOOR_2022_422077	Rosemead 66/16 (D)	Bilton	Capacity	Increase Circuit Capacity	Increase Conductor Size, Install (1) New Switch	Primary Feeder - Overhead Conductor, Switch	6/1/2024	
GNA_2022_273	DOOR_2022_D37	DOOR_2022_179823	Silver Spur 33/12 (D)	Bit	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size, Install New Cable	Primary Feeder - Cable	6/1/2022	
GNA_2022_73	DOOR_2022_D2	DOOR_2022_202575	Grus 66/12 (D)	Blueberry	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Replace Conductor, Install (1) New Switch	Primary Feeder - Overhead Conductor, Switch	12/31/2023	
GNA_2022_82	DOOR_2022_D52	DOOR_2022_234816	Colonia 66/12 (D)	Bolles	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Underground Cable Temperature Mitigation, New Circuit	Primary Feeder - Cable	6/1/2023	
GNA_2022_36	DOOR_2022_D313	DOOR_2022_8502_530023	Bloomington 66/12 (D)	Bombay	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	
GNA_2022_98	DOOR_2022_D98	DOOR_2022_327851	Duarte 16/4.16 (D)	Bonnie	Capacity	Project to Facilitate Transformer Conversion	4 kV to 16 kV Conversion, Remove (5) 4 kV Transformers and Install 16 kV Transformers on 16 kV Circuit	Primary Feeder - Overhead Conductor, Transformer	6/1/2023	
GNA_2022_11	DOOR_2022_D113	DOOR_2022_334575	Archibald 66/12 (D)	Borba	Capacity	Increase Circuit Capacity	Increase Conductor Size	Primary Feeder - Overhead Conductor	12/31/2023	
GNA_2022_11	DOOR_2022_D369	DOOR_2022_334561	New Circuit 66/12 (D)	Borba	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023	
GNA_2022_234	DOOR_2022_DV43	DOOR_2022_DVAR Plan_18	Pico 66/12 (D)	Bow	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	12/31/2023	
GNA_2022_197	DOOR_2022_D257	DOOR_2022_8330_277960	Newcomb 115/12 (D)	Bradley	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	5/18/2022	
GNA_2022_12	DOOR_2022_D241	DOOR_2022_8309_234806	Archibald 66/12 (D)	Brannon	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Construct Civil Projects, Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023	
GNA_2022_12	DOOR_2022_D270	DOOR_2022_334561	Colonia 66/12 (D)	Bravo	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	12/31/2023	
GNA_2022_155	DOOR_2022_DV68	DOOR_2022_DVAR Plan_11	La Habra 66/12 (D)	Bridle	Capacity (UCT)	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2023	
GNA_2022_251	DOOR_2022_D92	DOOR_2022_322586	Rush 66/16 (D)	Brookline	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Increase Cable Size	Primary Feeder - Cable	12/1/2023	
GNA_2022_75	DOOR_2022_D254	DOOR_2022_8324_239185	Colonia 66/16 (D)	Broome	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	12/31/2022	
GNA_2022_75	DOOR_2022_D256	DOOR_2022_8325_339553	Colonia 66/16 (D)	Broome	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	
GNA_2022_97	DOOR_2022_D181	DOOR_2022_451646	Delano 66/12 (D)	C.B.S.	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Increase Cable Size	Primary Feeder - Cable	6/1/2024	
GNA_2022_29	DOOR_2022_D338	DOOR_2022_D5934909_333089	Bain 66/12 (D)	Cabana	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Substation Capacity, New Circuit	Install (1) New 28 MVA Transformer, Install (1) New 4.8 MVAR Capacitor Bank, Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line, Substation - Capacitor, Transformer	12/31/2023	
GNA_2022_141	DOOR_2022_D318	DOOR_2022_8511_543018	Irvine 66/12 (D)	Cadence	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	5/1/2025	
GNA_2022_57	DOOR_2022_DV2	DOOR_2022_DVAR Plan_2	Calamar F.I. 33/12 (A)	Calamar	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(2) New Capacitors On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2022	
GNA_2022_146	DOOR_2022_D172	DOOR_2022_443042	Limestone 66/12 (D)	Calisto	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Construct Civil Projects, Increase Cable Size, Install New Cable	Primary Feeder - Cable	6/1/2022	
GNA_2022_201	DOOR_2022_D217	DOOR_2022_8135_059614	Nehwall 66/16 (D)	Calgrove	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023	
GNA_2022_287	DOOR_2022_DV3	DOOR_2022_DVAR Plan_3	Upland 66/12 (D)	Campus	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2022	
GNA_2022_177	DOOR_2022_D72	DOOR_2022_246895	Los Cerritos 12/4.16 (D)	Canton	Capacity	Project to Facilitate Transformer Conversion	4 kV to 12 kV Conversion, Remove (22) 4 kV Transformers and Install New 12 kV Transformers on 12 kV Circuit	Primary Feeder - Overhead Conductor, Transformer	6/1/2022	
GNA_2022_49	DOOR_2022_D305	DOOR_2022_8495_277962	Bunker 115/12 (D)	Carbine	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Install New Cable	Primary Feeder - Cable	6/1/2022	
GNA_2022_49	DOOR_2022_D332	DOOR_2022_D5934706_477076	Bunker 115/12 (D)	Carbine	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2024	
GNA_2022_268	DOOR_2022_D41	DOOR_2022_231789	Shandin 115/12 (D)	Carmelita	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Conductor Size, Install New Cable, Install (1) New Switch	Primary Feeder - Overhead Conductor, Cable, Switch	5/1/2022	
GNA_2022_225	DOOR_2022_DV40	DOOR_2022_DVAR Plan_15	Carco 66/12 (D)	Carco	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2022	
GNA_2022_96	DOOR_2022_DV35	DOOR_2022_DVAR Plan_10	Del Rosa 66/12 (D)	Carpenter	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2023	
GNA_2022_103	DOOR_2022_D221	DOOR_2022_8146_886139	Edwards 115/33 (D)	Castle Butte	Capacity	Increase Circuit Capacity	Increase Conductor Size	Primary Feeder - Overhead Conductor	12/31/2022	
GNA_2022_104	DOOR_2022_DV63	DOOR_2022_DVAR Plan_29	Edwards 115/33 (D)	Castle Butte	Voltage	Project to Address Voltage Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2023	
GNA_2022_108	DOOR_2022_D14	DOOR_2022_159845	Elizabeth Lake 66/16 (D)	Cello	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Remote Control Switch	Primary Feeder - Switch	6/1/2023	
GNA_2022_50	DOOR_2022_D306	DOOR_2022_8495_277962	Bunker 115/12 (D)	Chaney	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Install New Cable	Primary Feeder - Cable	6/1/2022	
GNA_2022_50	DOOR_2022_D333	DOOR_2022_D5934706_477076	Bunker 115/12 (D)	Chaney	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2024	
GNA_2022_252	DOOR_2022_D93	DOOR_2022_322586	Rush 66/16 (D)	Change	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Increase Cable Size	Primary Feeder - Cable	12/1/2023	
GNA_2022_32	DOOR_2022_DV28	DOOR_2022_DVAR Plan_2	Chavez 66/12 (D)	Chavez	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2023	
GNA_2022_119	DOOR_2022_D6	DOOR_2022_82625_930268	Falcon Ridge 66/12 (D)	Chevelle	Capacity	New Circuit	Install (1) New 12kV Circuit	Primary Feeder - New Distribution Line	12/31/2022	
GNA_2022_DV4	DOOR_2022_DVAR Plan_4	DOOR_2022_DVAR Plan_4	Gilbert 66/12 (D)	Chipper	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	12/31/2022	
GNA_2022_D32	DOOR_2022_D32	DOOR_2022_151044	Oak Grove 66/12 (D)	Clancy	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2023	
GNA_2022_D35	DOOR_2022_D35	DOOR_2022_159845	Elizabeth Lake 66/16 (D)	Clarinet	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Remote Control Switch	Primary Feeder - Switch	6/1/2023	
GNA_2022_D86	DOOR_2022_D86	DOOR_2022_288602	Auld 115/12 (D)	Clydesdale	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size, Install New Cable, Install (2) New Switches, Construct Civil Projects	Primary Feeder - Cable, Switch	6/1/2022	
GNA_2022_D4	DOOR_2022_D148	DOOR_2022_388548	Auld 115/12 (D)	Clydesdale	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Construct Civil Projects, Install New Cable, Install (2) New Remote Control Switches, Install (2) New Switches	Primary Feeder - Cable, Switch	6/1/2023	
GNA_2022_126	DOOR_2022_D131	DOOR_2022_8125_879050	Garnett 115/12 (D)	Coachella	Capacity	New Circuit	Install (1) New 33kV Circuit	Primary Feeder - New Distribution Line	12/31/2022	
GNA_2022_127	DOOR_2022_D247	DOOR_2022_8114_57911	Coastal 115/31 (D)	Coastal	Reliability, Capacity	Reliability Contingency Mitigation, New Circuit	Install (1) New 33kV Circuit	Primary Feeder - New Distribution Line	6/1/2024	
GNA_2022_92	DOOR_2022_D192	DOOR_2022_7713_333226	Crown 66/12 (D)	Coastal	Capacity (UCT)	Underground Cable Temperature Mitigation	Reroute Circuit	Primary Feeder - Cable	12/31/2023	
GNA_2022_DV5	DOOR_2022_DVAR Plan_5	DOOR_2022_DVAR Plan_5	La Habra 66/12 (D)	Colfax	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2022	
GNA_2022_113	DOOR_2022_D142	DOOR_2022_377696	Elsinore 115/12 (D)	Collier	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Substation Capacity	Construct Civil Projects	Primary Feeder - Cable, Switch, Substation - Transformer	8/1/2023	
GNA_2022_45	DOOR_2022_D344	DOOR_2022_D5935738_532018	Bulls 66/16 (D)	Colyer	Capacity	New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	
DOOR_2022_D95	DOOR_2022_D32590	DOOR_2022_322590	Alhambra 66/4.16 (D)	Commonwealth	Capacity	Project to Facilitate Transformer Conversion	4 kV to 16 kV Conversion, Remove (9) 4 kV Transformers and Install New 16 kV Transformers on 16 kV Circuit	Primary Feeder - Overhead Conductor, Transformer	10/1/2023	
GNA_2022_30	DOOR_2022_D339	DOOR_2022_D5934909_333089	Bain 66/12 (D)	Common	Capacity	Increase Substation Capacity, New Circuit	Install (1) New 28 MVA Transformer, Install (1) New 4.8 MVAR Capacitor Bank, Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line, Substation - Capacitor, Transformer	12/31/2023	
GNA_2022_296	DOOR_2022_D951	DOOR_2022_DVAR Plan_27	Viejo 66/12 (D)	Concho	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	12/31/2023	
GNA_2022_114	DOOR_2022_D69	DOOR_2022_246891	Bunker 115/12 (D)	Corby	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	12/31/2022	
GNA_2022_281	DOOR_2022_D149	DOOR_2022_388548	Tenaja 115/12 (D)	Corinth	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Construct Civil Projects, Install New Cable, Install (2) New Remote Control Switches, Install (2) New Switches	Primary Feeder - Cable, Switch	6/1/2023	
GNA_2022_51	DOOR_2022_D307	DOOR_2022_8495_277962	Bunker 115/12 (D)	Corporal	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Install New Cable	Primary Feeder - Cable	6/1/2022	
GNA_2022_51	DOOR_2022_D334	DOOR_2022_D5934706_477076	Bunker 115/12 (D)	Corporal	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2024	
GNA_2022_90	DOOR_2022_D132	DOOR_2022_340024	Cottage Grove 12/2.4 (A)	Cottage Grove	Voltage	Project to Facilitate Transformer Conversion, Project to Address Voltage Concern	2.4 kV to 12kV Conversion, Remove (23) 2.4kV Transformers and Install New 12 kV Transformers on 12 kV Circuit, Install (1) 300 kVAR Capacitor	Primary Feeder - Capacitor, Overhead Conductor, Transformer	6/1/2023	
GNA_2022_263	DOOR_2022_D9	DOOR_2022_D6328_459030	Saguas 66/16 (D)	Crabtree	Capacity	New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026	
GNA_2022_13	DOOR_2022_D273	DOOR_2022_8374_334562	Archibald 66/12 (D)	Creekside	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Construct Civil Projects, Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	12/31/2023	
GNA_2022_87	DOOR_2022_DV30	DOOR_2022_DVAR Plan_5	Corona 66/33 (D)	Cupples	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2023	
GNA_2022_14	DOOR_2022_D242	DOOR_2022_8309_234806	Archibald 66/12 (D)	Alhambra 66/12 (D)	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2024	
GNA_2022_14	DOOR_2022_D271	DOOR_2022_8374_334561	Archibald 66/12 (D)	Danish	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Construct Civil Projects, Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	12/31/2023	
GNA_2022_182	DOOR_2022_D195	DOOR_2022_7973_977270	Mayberry 115/12 (D)	Dartmouth	Capacity (					

Deficiency (MW, MVAR or VPU)						Deficiency %					DER Eligible Service	LNBA Values		Residential Customer	Commercial Customer	Industrial Customer	Agricultural Customer	Other Customer	Notes	AACE Level of Cost Estimate		Project History
2022 ^a	2023 ^a	2024 ^a	2025 ^a	2026 ^a	Units	2022 ^a	2023 ^a	2024 ^a	2025 ^a	2026 ^a												
0.82	1.30	1.30	1.53	1.56	1.53 MVAR						NO	3728.62 \$/MVAR-year		68	12	0	0	31	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
0.40	0.40	0.40	0.30	0.30	0.30 MW	4.04%	4.04%	4.04%	3.03%	3.03%	NO	51803.23 \$/MW-year		445	103	0	0	100	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing		
0.00	0.41	0.65	0.61	0.52	0.52 MW	0.00%	3.70%	5.85%	5.48%	4.66%	NO	57943.82 \$/MW-year		637	23	1	0	44	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing		
1.41	1.96	0.00	0.00	0.00	0.00 \$/MW-year	15.02%	20.55%	0.00%	0.00%	0.00%	NO	18897.94 \$/MW-year		637	23	1	0	44	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
1.52	1.52	1.30	1.30	1.30	1.30 MW						NO	433.19 \$/MW-year		449	4	0	0	41	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.41	0.50	0.61	0.46	0.46 MW						NO	65659.69 \$/MW-year		432	82	0	0	43	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.76	1.63	2.17	2.72	3.70	3.70 MW	6.61%	14.26%	19.09%	23.73%	32.43%	NO	6882.69 \$/MW-year		1114	217	0	0	112	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
2.43	2.43	2.43	2.43	2.43	2.43 \$/MW-year	160.91%	161.93%	161.93%	162.43%	162.43%	NO	202035.16 \$/MW-year		198	198	0	0	22	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
0.00	0.00	0.00	0.00	0.00	0.00 MVAR						NO	1717.61 \$/MW-year		210	0	0	0	177	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.00	0.00	0.00	0.00	0.00	0.00 MW						NO	23823.73 \$/MW-year		0	57	0	0	54	Cost estimate is generally equivalent to AACE Estimate Class 4	New		
0.85	2.50	2.70	2.72	2.70	2.70 MW	7.11%	20.90%	22.58%	22.74%	22.58%	NO	1230.39 \$/MW-year		1008	130	0	0	169	Cost estimate is generally equivalent to AACE Estimate Class 1	New		
0.00	3.83	3.73	3.63	3.53	3.53 MW	0.00%	29.43%	28.67%	27.90%	27.13%	NO	2348.64 \$/MW-year		759	138	0	0	231	Cost estimate is generally equivalent to AACE Estimate Class 4	New		
1.89	1.93	1.96	1.98	2.07	2.07 MW	20.37%	20.84%	21.17%	21.38%	22.35%	NO	34313.18 \$/MW-year		709	44	0	0	132	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.00	0.00	0.00	0.00	0.00 MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MW-year		144	16	0	0	15	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
2.80	2.80	2.80	2.80	2.80	2.80 \$/MW-year						NO	1657.65 \$/MW-year		410	82	0	0	82	Cost estimate is generally equivalent to AACE Estimate Class 3	Existing		
0.20	0.17	0.15	0.00	0.00	0.00 MW	1.90%	1.61%	1.42%	0.00%	0.00%	NO	102096.95 \$/MW-year		477	54	0	0	18	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing		
1.41	1.41	1.09	0.65	0.65	0.65 MW	14.95%	15.33%	12.23%	7.03%	7.10%	NO	3240.93 \$/MW-year		546	158	0	0	221	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
3.69	3.69	3.69	3.61	3.61	3.61 MVAR	614.18%	614.18%	614.18%	601.54%	601.54%	NO	976.26 \$/MVAR-year		477	0	0	0	99	Cost estimate is generally equivalent to AACE Estimate Class 1	New		
0.00	1.30	1.74	1.63	1.52	1.52 MW						NO	433.19 \$/MW-year		191	26	2	0	68	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	3.01	8.75	5.32	6.19	6.19 MW	0.00%	20.19%	58.95%	35.82%	41.77%	NO	30865.36 \$/MW-year		77	141	1	4	51	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.00	0.00	0.41	5.29	5.29 MW	0.00%	0.00%	0.00%	29.70%	35.70%	YES	20230.60 \$/MW-year		77	141	1	4	51	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.41	0.46	0.39	0.30	0.30 MW	0.00%	3.43%	3.85%	3.26%	2.51%	NO	6882.69 \$/MW-year		869	39	0	0	94	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.00	0.00	0.13	0.07	0.07 MW	0.00%	0.00%	0.00%	1.31%	0.71%	NO	11793.23 \$/MW-year		29	0	0	0	45	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.57	0.57	0.57	0.01	0.01	0.01 MVAR	95.50%	95.50%	95.50%	1.92%	1.92%	NO	6278.6 \$/MVAR-year		822	17	1	0	50	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.00	0.00	0.00	0.00	0.00 MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MW-year		922	272	0	1	191	Cost estimate is generally equivalent to AACE Estimate Class 4	New		
0.98	0.87	0.87	0.96	0.76	0.76 MW	10.61%	9.35%	9.40%	10.29%	8.19%	NO	30491.79 \$/MW-year		369	0	0	0	39	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
1.20	1.17	1.13	1.22	1.09	1.09 MW	11.27%	10.99%	10.61%	11.57%	10.25%	NO	102096.95 \$/MW-year		661	0	2	0	178	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing		
0.15	0.15	0.06	0.15	0.06	0.06 MW	3.15%	1.57%	0.72%	12.30%		NO	28784.65 \$/MW-year		649	19	0	0	84	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing		
0.00	0.11	0.04	0.02	0.00	0.00 MW	0.00%	1.21%	0.44%	0.22%	0.00%	YES	61195.36 \$/MW-year		1	0	0	0	59	Cost estimate is generally equivalent to AACE Estimate Class 1	New		
0.00	0.00	0.00	0.00	0.00	0.00 MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MW-year		174	0	0	0	39	Cost estimate is generally equivalent to AACE Estimate Class 3	New		
0.00	0.00	1.03	1.22	1.43	1.43 MW						NO	9086.65 \$/MW-year		27	32	0	5	87	Cost estimate is generally equivalent to AACE Estimate Class 4	New		
0.00	0.00	2.12	2.12	2.12	2.12 MW						NO	90796.16 \$/MW-year		27	27	0	0	87	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing		
1.12	1.12	1.12	1.12	1.07	1.07 MVAR	124.04%	124.04%	124.04%	124.04%	119.40%	NO	5359.16 \$/MVAR-year		0	38	0	0	0	100	Cost estimate is generally equivalent to AACE Estimate Class 5	New	
0.00	1.52	1.41	1.30	1.30	1.30 MW	0.00%	14.21%	13.13%	12.04%	12.10%	NO	31214.24 \$/MW-year		781	0	0	0	134	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.78	0.76	0.00	0.00	0.00	0.00 MW						NO	65659.69 \$/MW-year		778	0	0	0	81	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
1.02	1.02	1.02	1.02	1.02	1.02 \$/MW-year						NO	90796.16 \$/MW-year		778	0	0	0	81	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing		
1.36	1.63	1.72	1.72	1.63	1.63 MVAR	225.88%	270.93%	285.95%	285.95%	270.93%	NO	2096.89 \$/MVAR-year		138	0	0	0	85	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing		
1.15	0.00	0.00	0.00	0.00	0.00 MW	11.30%	0.00%	0.00%	0.00%	0.00%	NO	47778.75 \$/MW-year		290	0	10	0	314	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing		
0.00	0.00	2.30	2.30	2.20	2.20 MW	0.00%	0.00%	16.64%	15.86%	15.33%	NO	30865.36 \$/MW-year		124	114	0	4	110	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.00	0.00	0.00	0.00	0.00 MW	0.00%	0.00%	0.00%	6.21%	25.09%	YES	20230.60 \$/MW-year		124	114	0	4	110	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.00	0.65	0.65	0.65	0.65 MW						NO	8436.79 \$/MW-year		288	115	0	1	82	Cost estimate is generally equivalent to AACE Estimate Class 4	New		
0.00	0.00	0.00	0.43	0.41	0.41 MW	0.00%	0.00%	0.00%	4.12%	3.93%	NO	11793.23 \$/MW-year		609	0	0	0	106	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.00	0.00	0.00	0.65	0.65	0.65 MW	0.00%	0.00%	0.00%	5.43%	5.43%	YES	100329.28 \$/MW-year		2875	1046	6	0	1170	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
0.03	0.03	0.00	0.00	0.00	0.00 MVAR	4.43%	4.43%	0.00%	0.00%	0.00%	NO	250033.98 \$/MVAR-year		6	7	0	0	26	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.70	0.70	0.67	0.67	0.67	0.67 MW	7.48%	7.41%	7.41%	12.82%	12.82%	NO	23823.73 \$/MW-year		599	79	0	0	79	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing		
4.07	5.18	5.69	6.24	6.98	6.98 MW	32.55%	39.99%	43.98%	48.21%	53.94%	NO	7381.03 \$/MW-year		586	123	0	4	101	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
2.17	2.12	2.06	2.01	2.01	2.01 MVAR	361.71%	352.69%	343.66%	334.63%	334.63%	NO	1426.46 \$/MVAR-year		795	0	0	0	83	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.10	0.10	0.20	0.30	0.40	0.40 MW	3.41%	3.41%	6.83%	10.24%	11.65%	NO	212529.52 \$/MW-year		358	27	0	0	45	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	1.30	0.00	0.00	0.00	0.00 MW	0.00%	14.01%	0.00%	0.00%	0.00%	NO	433.19 \$/MW-year		195	121	2	0	110	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.00	1.96	2.07	2.28	2.28 MW	0.00%	0.00%	18.28%	19.17%	21.01%	NO	40959.15 \$/MW-year		195	121	2	0	110	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
1.15	0.74	0.63	0.52	0.41	0.41 MW	11.68%	7.24%	6.14%	5.03%	3.95%	NO	34133.18 \$/MW-year		509	0	0	0	170	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
2.51	2.51	2.13	2.13	2.13	2.13 MW	434.38%	427.32%	422.32%	422.32%	422.32%	NO	1419.58 \$/MW-year		1327	1327	0	0	121	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing		
0.18	0.18	0.13	0.13	0.09	0.09 MVAR						NO	20143.55 \$/MVAR-year		720	75	0	0	97	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
0.00	3.65	14.22	14.28	14.28	14.28 MW						NO	70742.01 \$/MW-year		4	0	0	0	3	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.91	0.91	0.91	1.00	1.00	1.00 Vpu	90.92%	90.92%	90.92%	99.58%	99.58%	NO	3612.69 \$/Vpu-year		4	2	0	0	3	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
0.00	0.00	0.97	0.94	0.94	0.94 MW	0.00%	42.89%	43.54%	43.19%	42.83%	NO	536.16 \$/MW-year		64	29	0	0	29	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing		
5.33	4.02	0.33	0.65	0.87	0.87 MW	61.90%	46.37%	3.82%	7.53%	9.98%	NO	433.19 \$/MW-year		45	3	0	0	10	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
3.91	2.83	3.48	3.91	4.13	4.13 MW	39.02%	28.67%	25.95%	28.50%	29.46%	NO	40959.15 \$/MW-year		45	3	0	0	10	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
3.65	1.97	0.00	0.00	0.00	0.00 MVAR						NO	47778.75 \$/MW-year		221	496	7	0	275	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing		
2.40	2.40	2.40	2.40	2.40	2.40 MVAR	3.98%	399.33%	399.33%	399.33%	399.33%	NO	1501.3 \$/MVAR-year		28	24	0	0	105	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
1.11	1.07	1.04	1.00	0.96	0.96 MW	9.28%	8.95%	8.70%	8.36%	8.03%	NO	323491.39 \$/MW-year		1428	60	1	0	124	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.00	0.00	0.00	0.00	0.00 MVAR	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MVAR-year		119	794	0	0	97	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.00	0.00	0.00	0.00	0.00	0.00 MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MW-year		5	24	0	11</					

GNA ID	DOOR ID	DOOR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment To Be Installed	Operating Date
GNA_2022_144	DOOR_2022_D298	DOOR_2022_8478_473037	Aqueduct 115/12 (D)	Flue	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Install New Cable, Replace Cable, Install (1) New Switch	Primary Feeder - Cable, Switch	6/1/2024
	DOOR_2022_D289	DOOR_2022_8464_434559	Kimball 66/12 (D)	Fortress	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Construct Civil Projects, Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2024
	DOOR_2022_0101	DOOR_2022_330814	Alder 66/12 (D)	Frisbie	Capacity	Increase Circuit Capacity	Increase Conductor Size, Replace Disconnect Switch	Primary Feeder - Overhead Conductor, Switch	12/1/2023
GNA_2022_266	DOOR_2022_D326	DOOR_2022_973262	Savage 115/12 (D)	Frontage	Reliability, Capacity	Outage Contingency Mitigation, Project to Facilitate Load Transfer	Install (2) New Switch, Install (1) New Remote Automatic Recloser, Construct Civil Projects	Primary Feeder - Switch	12/1/2022
GNA_2022_038	DOOR_2022_D22897		Gabrielino P.T. 16/4.16 (A)	Gabrielino	Capacity	Project to Facilitate Transformer Conversion	4 kV to 16 kV Conversion, Remove (22) 4 kV Transformers and Install New 16 kV Transformers on 16 kV Circuit	Primary Feeder - Overhead Conductor, Transformer	6/1/2022
	DOOR_2022_D67	DOOR_2022_246888	Luck 66/4.16 (D)	Gallup	Capacity	Project to Facilitate Transformer Conversion	4 kV to 12 kV Conversion, Remove (10) 4 kV Transformers and Install New 12 kV Transformers on 12 kV Circuit	Primary Feeder - Overhead Conductor, Transformer	12/1/2022
	DOOR_2022_D323	DOOR_2022_879027	Farell 115/12 (D)	Garbo	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Replace Cable	Primary Feeder - Cable	9/30/2022
GNA_2022_25	DOOR_2022_D87	DOOR_2022_288602	Auld 115/12 (D)	Garboni	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size, Install New Cable, Install (2) New Switches, Construct Civil Projects	Primary Feeder - Cable, Switch	6/1/2022
GNA_2022_140	DOOR_2022_D160	DOOR_2022_4052_747043	Imperial 66/4.16 (D)	Gardendale	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Construct Civil Projects, Increase Cable Size, Install New Cable	Primary Feeder - Cable	6/1/2024
GNA_2022_15	DOOR_2022_D274	DOOR_2022_8734_354562	Archibald 66/12 (D)	Garrett	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Construct Civil Projects, Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	12/1/2023
GNA_2022_254	DOOR_2022_D184	DOOR_2022_5174_134827	San Antonio 66/12 (D)	Gaylord	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
GNA_2022_83	DOOR_2022_D53	DOOR_2022_234816	Corona 66/12 (D)	Glacier	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2023
DOOR_2022_D276	DOOR_2022_8378_377668		Newcomb 115/12 (D)	Goetz	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
DOOR_2022_D134	DOOR_2022_8378_377668		Newcomb 115/12 (D)	Goetz	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - Cable	6/1/2023
GNA_2022_133	DOOR_2022_D85	DOOR_2022_286922	Grapevine P.T. 25/12 (A)	Grapevine	Capacity	Increase Circuit Capacity	Increase Transformer Size	Primary Feeder - Transformer	12/1/2024
GNA_2022_58	DOOR_2022_D220	DOOR_2022_8146	Calcity 'A' 33/12 (D)	Greenswood	Capacity	Increase Substation Capacity, New Circuit	Install (1) New 33kV Circuit, Remove (1) 25 MVA Transformer and Install (2) 28 MVA Transformer	Primary Feeder - New Distribution Line, Transformer	6/30/2022
GNA_2022_58	DOOR_2022_D222	DOOR_2022_8146_886140	Calcity 'A' 33/12 (D)	Greenswood	Capacity	New Circuit	Install (1) New 33kV Circuit	Primary Feeder - New Distribution Line	12/1/2022
GNA_2022_58	DOOR_2022_D230	DOOR_2022_8256	Calcity 'A' 33/12 (D)	Greenswood	Capacity	New Substation, New Subtransmission Line	Construct (1) New 115/12 kV Substation, Install (2) New 115kV Subtransmission Lines	Substation - New Substation, New Subtransmission Line	5/1/2028
	DOOR_2022_D319	DOOR_2022_8511_543018	Invine 66/12 (D)	Great Park	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	5/1/2025
	DOOR_2022_D131	DOOR_2022_8256	Green Bear P.T. 12/2.4 (A)	Greene	Capacity	Project to Address Reactive Power Concern, New Capacitor Installation	Install (1) New Remote Automatic Recloser	Primary Feeder - Switch	12/1/2023
GNA_2022_64	DOOR_2022_D155	DOOR_2022_4052_334082	Chase 66/12 (D)	Griffin	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Install New Cable, Replace Cable, Install (1) New Switch	Primary Feeder - Cable, Switch	6/1/2023
GNA_2022_109	DOOR_2022_D196	DOOR_2022_7978_595298	Elizabeth Lake 66/16 (D)	Guitar	Capacity	New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026
DOOR_2022_D241	DOOR_2022_D323	DOOR_2022_D323	Parkwood 66/12 (D)	Gum	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/1/2023
DOOR_2022_D193	DOOR_2022_D323	DOOR_2022_D323	Parkwood 66/12 (D)	Gurthor	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size, Replace Circuit	Primary Feeder - Cable, Switch	6/1/2024
GNA_2022_179	DOOR_2022_D177	DOOR_2022_440095	Los Corteros 66/12 (D)	Halter	Capacity	Increase Circuit Capacity	Increase Cable Size, Replace Circuit	Primary Feeder - Cable, Switch	6/1/2024
GNA_2022_65	DOOR_2022_D162	DOOR_2022_434565	Chase 66/12 (D)	Harlow	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Increase Cable Size, Install (1) New Switch	Primary Feeder - Cable, Switch	6/1/2024
GNA_2022_198	DOOR_2022_D277	DOOR_2022_8378_377668	Newcomb 115/12 (D)	Harnage	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
DOOR_2022_D198	DOOR_2022_D323	DOOR_2022_D323	Newcomb 115/12 (D)	Harnage	Capacity (UCT)	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Padmount)	Primary Feeder - Capacitor	12/1/2023
GNA_2022_242	DOOR_2022_D239	DOOR_2022_D323	Redlands 66/16 (D)	Hastings	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/1/2023
GNA_2022_145	DOOR_2022_D239	DOOR_2022_8303_224805	Kimball 66/12 (D)	Havoc	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2022
GNA_2022_145	DOOR_2022_D263	DOOR_2022_8359_334552	Kimball 66/12 (D)	Havoc	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
GNA_2022_145	DOOR_2022_D265	DOOR_2022_8359_334553	Kimball 66/12 (D)	Havoc	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
GNA_2022_240	DOOR_2022_D239	DOOR_2022_D323	Randsburg 115/12 (D)	Heavy	Voltage	Project to Address Voltage Concern, New Capacitor Installation	(2) New Capacitors On Pole Line (Overhead)	Primary Feeder - New Distribution Line	12/1/2023
GNA_2022_31	DOOR_2022_D343	DOOR_2022_D323	Bain 66/12 (D)	Heffler	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025
GNA_2022_207	DOOR_2022_D145	DOOR_2022_336772	Oasis 66/12 (D)	Heights	Capacity	Increase Circuit Capacity	Increase Cable Size, Install (1) New Remote Control Switch	Primary Feeder - Cable, Switch	6/1/2023
GNA_2022_146	DOOR_2022_D264	DOOR_2022_8359_334552	Kimball 66/12 (D)	Helcat	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
GNA_2022_147	DOOR_2022_D266	DOOR_2022_8359_334553	Kimball 66/12 (D)	Helcat	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
GNA_2022_147	DOOR_2022_D291	DOOR_2022_8467_434561	Kimball 66/12 (D)	Helicat	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2024
GNA_2022_52	DOOR_2022_D308	DOOR_2022_8495_277962	Bunker 115/12 (D)	Hero	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Reroute Circuit	Primary Feeder - Duct Bank	6/1/2022
DOOR_2022_D198	DOOR_2022_D323	DOOR_2022_D323	Rendevale 66/16 (D)	Hinshaw	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/1/2022
GNA_2022_16	DOOR_2022_D168	DOOR_2022_434572	Archibald 66/12 (D)	Hofer	Capacity	Increase Cable Size, Install (1) New Switch	Increase Cable Size, Install (1) New Switch	Primary Feeder - Cable, Switch	6/1/2024
GNA_2022_17	DOOR_2022_D275	DOOR_2022_8374_334562	Archibald 66/12 (D)	Hofer	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	12/1/2023
GNA_2022_41	DOOR_2022_D100	DOOR_2022_327859	Bradbury 66/16 (D)	Hurstview	Capacity	Increase Circuit Capacity	Increase Conductor Size, Install (1) New Switch	Primary Feeder - Conductor, Switch	10/1/2023
GNA_2022_283	DOOR_2022_D190	DOOR_2022_D323	DVAR Plan_26	Intern	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/1/2023
GNA_2022_196	DOOR_2022_D238	DOOR_2022_D323	DVAR Plan_13	Interpud	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Padmount)	Primary Feeder - Capacitor	12/1/2023
GNA_2022_100	DOOR_2022_1199	DOOR_2022_8023_879049	Devens 115/12 (D)	Invader	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	8/1/2022
GNA_2022_135	DOOR_2022_D180	DOOR_2022_451637	Hanford 66/12 (D)	Iona	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Increase Cable Size	Primary Feeder - Cable	6/1/2024
GNA_2022_259	DOOR_2022_D110	DOOR_2022_D202	Santa Monica 66/4.16 (D)	Irwin Hts	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/1/2022
GNA_2022_157	DOOR_2022_D202	DOOR_2022_834565	Langford 66/12 (D)	Jackson	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Substation Capacity, New Circuit	Install (1) New 12 kV Circuit, Rebuild Switchyard	Primary Feeder - New Distribution Line, Substation - Bus	6/1/2023
GNA_2022_289	DOOR_2022_D294	DOOR_2022_8469_577046	Valley 115/12 (D)	Jerry	Capacity	Increase Substation Capacity, New Circuit	Install (1) New 12 kV Circuit, Install (1) 28 MVA Transformer	Primary Feeder - New Distribution Line, Substation - Transformer	6/1/2025
GNA_2022_22	DOOR_2022_D226	DOOR_2022_8002_047428	Stewart 66/12 (D)	Jimmy	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2022
GNA_2022_107	DOOR_2022_D201	DOOR_2022_8057_331531	El Casco 115/12 (D)	Jungold	Capacity	New Circuit	Install (1) New 12 kV Circuit, Construct Civil Projects, Install (2) 1.8 MVAR Capacitors, Install (2) New Remote Control Switches, Install (2) New Remote Automatic Reclosers	Primary Feeder - New Distribution Line	6/1/2024
	DOOR_2022_81	DOOR_2022_D50	Corona 66/12 (D)	Jony	Capacity	Project to Facilitate Load Transfer	Install (1) New Switch	Primary Feeder - Switch	12/1/2022
	DOOR_2022_D54	DOOR_2022_234816	Corona 66/12 (D)	Kingsford	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Increase Cable Size	Primary Feeder - Cable	6/1/2023
GNA_2022_158	DOOR_2022_D121	DOOR_2022_336790	Lancaster 66/12 (D)	Kingtree	Capacity	Project to Facilitate Load Transfer	Install (1) New Remote Control Switches	Primary Feeder - Switch	6/1/2023
GNA_2022_159	DOOR_2022_D103	DOOR_2022_834565	Lancaster 66/12 (D)	Kingtree	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Substation Capacity, New Circuit	Install (1) New 12 kV Circuit, Rebuild Switchyard	Primary Feeder - New Distribution Line, Substation - Bus	6/1/2023
GNA_2022_276	DOOR_2022_D140	DOOR_2022_347553	Stewart 66/12 (D)	Kordell	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Switch, Install New Conductor	Primary Feeder - Switch, Overhead Conductor	6/1/2023
GNA_2022_276	DOOR_2022_D179	DOOR_2022_447030	Stewart 66/12 (D)	Kordell	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Construct Civil Projects, Increase Cable Size, Install New Cable	Primary Feeder - Cable	6/1/2024
GNA_2022_18	DOOR_2022_D272	DOOR_2022_8374_334561	Archibald 66/12 (D)	Kroff	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	12/1/2023
GNA_2022_167	DOOR_2022_D169	DOOR_2022_447030	Limestone 66/12 (D)	Kryton	Capacity (UCT)	Increase Cable Size	Increase Cable Size	Primary Feeder - Cable	5/1/2024
GNA_2022_153	DOOR_2022_D169	DOOR_2022_440032	Kuffel P.T. 12/2.4 (A)	Kuffel	Voltage	Project to Facilitate Transformer Conversion	4 kV to 12kV Conversion, Remove (32) 4kV Transformers and Install 12kV Transformers on 12kV Circuit	Primary Feeder - Overhead Conductor, Transformer	6/1/2024
GNA_2022_154	DOOR_2022_D170	DOOR_2022_440032	Kuffel P.T. 12/2.4 (A)	Kuffel	Voltage	Project to Facilitate Transformer Conversion, Project to Address Voltage Concern	4 kV to 12kV Conversion, Remove (32) 4kV Transformers and Install 12kV Transformers on 12kV Circuit	Primary Feeder - Overhead Conductor, Transformer	6/1/2024
GNA_2022_214	DOOR_2022_D14	DOOR_2022_136846	Palmdale 66/12 (D)	Lasker	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2022
GNA_2022_148	DOOR_2022_D173	DOOR_2022_440032	Palmdale 66/12 (D)	Lead	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Construct Civil Projects, Increase Cable Size, Install New Cable	Primary Feeder - New Distribution Line	12/1/2023
GNA_2022_215	DOOR_2022_D15	DOOR_2022_136846	Palmdale 66/12 (D)	Ledford	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2022
GNA_2022_215	DOOR_2022_D21	DOOR_2022_136848	Palmdale 66/12 (D)	Ledford	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Switch	Primary Feeder - Switch	6/1/2022
DOOR_2022_D185	DOOR_2022_8174_134829		San Antonio 66/12 (D)	Leon	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2022
DOOR_2022_D251	DOOR_2022_8174_134829		San Antonio 66/12 (D)	Lemond	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 33 kV Circuit	Primary Feeder - New Distribution Line	6/1/2024
GNA_2022_26	DOOR_2022_D88	DOOR_2022_288602	Auld 115/12 (D)	Leon	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2022
GNA_2022_26	DOOR_2022_D147	DOOR_2022_388548	Auld 115/12 (D)	Leon	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Construct Civil Projects, Install New Cable, Install (2) New Remote Control Switches, Install (2) New Switches	Primary Feeder - Cable, Switch	6/1/2023
	DOOR_2022_D60	DOOR_2022_434565	Limestone 66/12 (D)	Lithium	Capacity (UCT)	Increase Cable Size	Increase Cable Size	Primary Feeder - Cable	5/1/2024
	DOOR_2022_D211	DOOR_2022_D202	DVAR Plan_13	Lomas	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/1/2022
GNA_2022_232	DOOR_2022_D341	DOOR_2022_D323	Phelan 115/12 (D)	Lotto	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Replace Cable, Install New Cable	Primary Feeder - Cable	6/1/2024
GNA_2022_199	DOOR_2022_D258	DOOR_2022_8330_277960	Newcomb 115/12 (D)	Lusk	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	5/18/2022
GNA_2022_199	DOOR_2022_D278	DOOR_2022_8378_377668	Newcomb 115/12 (D)	Lusk	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
GNA_2022_139	DOOR_2022_D159	DOOR_2022_4052_747043	Imperial 66/12 (D)	Luxor	Capacity (UCT)	Underground Cable Temperature Mitigation	Reroute Circuit, Replace Cable, Install New Cable, Construct Civil Projects	Primary Feeder - Cable	6/1/2024
GNA_2022_202	DOOR_2022_D218	DOOR_2022_8135_059614	Newhall 66/16 (D)	Lyons	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
GNA_2022_2	DOOR_2022_D102	DOOR_2022_330815	Alder 66/12 (D)	Lytie	Capacity	Increase Circuit Capacity	Increase Conductor Size, Increase Cable Size, Construct Civil Projects	Primary Feeder - Overhead Conductor, Cable	12/1/2023
GNA_2022_249	DOOR_2022_D141	DOOR_2022_373892	Roadway 115/12 (D)	Mack	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2023
GNA_2022_46	DOOR_2022_D156	DOOR_2022_4052_334562	Chase 66/12 (D)	Magrella	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Install New Cable, Replace Cable, Install (1) New Switch	Primary Feeder - Cable, Switch	6/1/2023
GNA_2022_211	DOOR_2022_D212	DOOR_2022_D202	DVAR Plan_14	Maitland	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/1/2022
GNA_2022_216	DOOR_2022_D118	DOOR_2022_336787	Palmdale 66/12 (D)	Mark	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Remote Control Switches	Primary Feeder - Switch	6/1/2023
GNA_2022_216	DOOR_2022_D122	DOOR_2022_336791	Palmdale 66/12 (D)	Mark	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Remote Control Switches	Primary Feeder - Switch	6/1/2023
GNA_2022_216	DOOR_2022_D124	DOOR_2022_336792	Palmdale 66/12 (D)	Mark	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Remote Control Switches	Primary Feeder - Switch	6/1/2023
GNA_2022_216	DOOR_2022_D135	DOOR_2022_346252	Offield 12/4/16 (D)	Market	Capacity	Project to Facilitate Transformer Conversion	4 kV to 12 kV Conversion, Remove (13) 4 kV Transformers and Install New 12 kV Transformers on 12 kV Circuit, Increase	Primary Feeder - Overhead Conductor, Transformer	6/1/2023
DOOR_2022_D27	DOOR_2022_421868		Marine 66/16 (D)	Marshall	Capacity	Project to Facilitate Load Transfer	Install (1) New Switch	Primary Feeder - Switch	8/1/2022
GNA_2022_160	DOOR_2022_D204	DOOR_2022_8101_059615	Lancaster 66/12 (D)	Medallion	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Reroute Circuit, Increase Cable Size	Primary Feeder - Cable	9/1/2022
GNA_2022_136	DOOR_2022_D261	DOOR_2022_8330_277960	Newcomb 115/12 (D)	Mesquite	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit		

Deficiency (MW, MVAR or VPU)						Deficiency %					DER Eligible Service	UNBA Values	Residential Customer	Commercial Customer	Industrial Customer	Agricultural Customer	Other Customer	Notes	AAEC Level of Cost Estimate		Project History
2022 ^a	2023 ^a	2024 ^a	2025 ^a	2026 ^a	Units	2022 ^a	2023 ^a	2024 ^a	2025 ^a	2026 ^a									Cost estimate is generally equivalent to AAEC Estimate Class 5	Cost estimate is generally equivalent to AAEC Estimate Class 4	
0.00	0.00	0.00	0.00	0.00	0.00 MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	23267.33 \$/MW-year	1015	42	0	0	176	Cost estimate is generally equivalent to AAEC Estimate Class 5	New		
0.13	0.09	0.04	0.00	0.00	0.00 MW	1.20%	0.80%	0.40%	0.00%	0.00%	NO	50716.43 \$/MW-year	799	40	0	1	118	Cost estimate is generally equivalent to AAEC Estimate Class 5	New		
0.00	5.07	5.00	4.96	4.93	MMW	0.00%	56.21%	55.43%	54.99%	54.66%	NO	2367.25 \$/MW-year	829	55	0	0	94	Cost estimate is generally equivalent to AAEC Estimate Class 4	New		
0.49	0.73	0.36	0.30	0.24	MMW	3.76%	5.60%	2.76%	2.30%	1.84%	NO	151676.77 \$/MW-year	708	166	0	0	169	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing		
0.00	0.00	0.00	0.00	0.00	0.00 MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MW-year	125	3	0	0	12	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
0.20	0.20	0.20	0.20	0.20	0.20 MW	6.83%	6.83%	6.83%	6.83%	6.83%	NO	243250.32 \$/MW-year	307	4	0	1	26	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
0.87	0.87	0.22	0.11	0.11	0.11 MW	9.44%	9.49%	2.25%	1.12%	1.12%	NO	18897.94 \$/MW-year	507	111	0	0	108	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
1.20	0.00	0.00	0.00	0.00	0.00 MW						NO	20314.32 \$/MW-year	542	28	0	0	102	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
0.40	0.40	0.40	0.40	0.40	0.40 MW	16.00%	16.00%	16.00%	16.00%	16.00%	NO	10279.9 \$/MW-year	274	12	0	0	35	Cost estimate is generally equivalent to AAEC Estimate Class 5	Existing		
0.00	0.00	0.00	0.00	0.00	0.00 MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	161325.05 \$/MW-year	743	0	0	0	112	Cost estimate is generally equivalent to AAEC Estimate Class 4	Existing		
0.00	0.00	0.00	0.00	0.00	0.10 MW	0.00%	0.00%	0.00%	0.00%	1.00%	NO	514792.46 \$/MW-year	592	470	1	2	216	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing		
1.61	1.48	1.52	1.48	1.57	MMW						NO	28784.66 \$/MW-year	535	110	1	0	75	Cost estimate is generally equivalent to AAEC Estimate Class 3	Existing		
0.00	0.00	0.00	0.00	0.00	0.00 MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	47426.34 \$/MW-year	663	17	0	0	38	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing		
0.30	0.43	0.61	0.00	0.00	0.00 MW						NO	36138.47 \$/MW-year	2	18	0	0	9	Cost estimate is generally equivalent to AAEC Estimate Class 3	Existing		
0.09	0.09	0.09	0.09	0.09	0.09 MW						NO	519168.09 \$/MW-year	0	0	0	0	8	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing		
13.30	13.30	43.30	43.30	43.30	MMW	160.24%	160.24%	521.69%	521.69%	521.69%	NO	27102.01 \$/MW-year	814	72	0	0	156	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
31.60	31.60	31.60	31.60	31.60	MMW	380.72%	380.72%	380.72%	380.72%	380.72%	NO	37136.62 \$/MW-year	814	72	0	0	156	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
CAISO: N/A CPUC: Anticipate PTC filing 2023, estimate approval 2025.																					
3.30	6.00	5.90	5.90	5.90	MMW	39.76%	72.29%	71.08%	71.08%	71.08%	YES	415801.83 \$/MW-year	814	72	0	0	156	SCE: Licensing activities authorized internally in 2019.	Cost estimate is generally equivalent to AAEC Estimate Class 4	Existing	
0.00	0.00	0.00	0.00	0.00	0.00 MW						YES	100329.35 \$/MW-year	184	64	0	0	21	Cost estimate is generally equivalent to AAEC Estimate Class 5	New		
0.08	0.08	0.07	0.07	0.07	0.07 MW	10.00%	10.00%	8.75%	8.75%	8.75%	NO	103588.99 \$/MW-year	250	8	0	0	26	Cost estimate is generally equivalent to AAEC Estimate Class 5	New		
1.11	1.02	1.15	1.07	1.02	1.02 MW	12.31%	11.33%	13.10%	12.19%	11.62%	NO	5935.75 \$/MW-year	626	21	0	0	76	Cost estimate is generally equivalent to AAEC Estimate Class 3	Existing		
0.00	0.00	0.00	0.07	1.68	MMW						YES	113856.27 \$/MW-year	8	70	0	0	143	Cost estimate is generally equivalent to AAEC Estimate Class 5	Existing		
2.21	2.21	2.21	2.21	2.21	2.21 MVAR	369.01%	369.01%	369.01%	369.01%	369.01%	NO	1624.87 \$/MVAR-year	887	0	0	0	87	Cost estimate is generally equivalent to AAEC Estimate Class 5	New		
0.54	0.63	0.70	0.74	0.78	0.78 MW	5.74%	6.71%	7.47%	7.90%	8.34%	NO	100773.25 \$/MW-year	950	261	0	0	112	Cost estimate is generally equivalent to AAEC Estimate Class 5	New		
0.80	1.30	1.50	1.50	1.50	MMW	7.55%	12.26%	14.15%	14.15%	14.15%	NO	10604.16 \$/MW-year	153	6	0	0	124	Cost estimate is generally equivalent to AAEC Estimate Class 4	New		
0.00	1.93	2.70	2.76	2.65	MMW	0.00%	19.09%	26.60%	27.14%	25.93%	NO	6629.49 \$/MW-year	322	49	0	0	79	Cost estimate is generally equivalent to AAEC Estimate Class 4	New		
1.96	2.17	2.74	2.72	2.93	MMW	18.15%	20.04%	26.10%	25.64%	27.90%	NO	47426.34 \$/MW-year	1167	74	0	0	122	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing		
0.00	0.00	0.00	0.00	0.00	0.00 MVAR	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MVAR-year	1167	0	0	0	122	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing		
0.56	0.49	0.49	0.49	0.49	0.49 MVAR	247.31%	218.51%	218.51%	218.51%	218.51%	NO	7317.58 \$/MVAR-year	158	37	0	0	28	Cost estimate is generally equivalent to AAEC Estimate Class 5	New		
3.78	10.80	10.13	10.26	10.24	MMW						NO	22830.25 \$/MW-year	154	51	0	0	51	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
0.00	11.50	10.72	11.07	11.13	MMW						NO	49805.75 \$/MW-year	154	51	0	0	51	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing		
0.00	6.74	6.59	6.63	6.91	MMW						NO	45091.57 \$/MW-year	154	51	0	0	51	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing		
0.92	0.92	0.92	0.98	0.98	0.98 VPU	91.58%	91.58%	91.58%	98.33%	98.33%	NO	7317.23 \$/VPU-year	0	3	0	0	5	Cost estimate is generally equivalent to AAEC Estimate Class 5	New		
0.62	1.32	4.72	4.72	4.67	MMW						YES	72989.33 \$/MW-year	3800	1	1	1	878	Cost estimate is generally equivalent to AAEC Estimate Class 5	New		
1.39	0.48	0.46	0.41	0.39	MMW	12.18%	4.21%	4.03%	3.59%	3.42%	NO	18718.6 \$/MW-year	1927	39	0	0	109	Cost estimate is generally equivalent to AAEC Estimate Class 3	New		
2.73	2.73	2.23	2.23	2.23	2.23 MW	0.00%	22.83%	18.65%	18.65%	18.65%	NO	49805.75 \$/MW-year	3	17	0	1	93	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing		
0.00	3.39	7.78	8.50	8.48	MMW	0.00%	29.43%	67.55%	73.77%	73.58%	NO	45091.57 \$/MW-year	3	17	0	1	93	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing		
0.00	0.00	3.45	9.41	9.39	MMW	0.00%	0.00%	32.98%	93.26%	93.06%	NO	15759.75 \$/MW-year	3	17	0	1	93	Cost estimate is generally equivalent to AAEC Estimate Class 5	New		
0.00	0.87	0.87	0.76	0.76	MMW						NO	433.19 \$/MW-year	182	33	0	0	99	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
0.00	0.00	0.00	0.00	0.00	0.00 MVAR						NO	0 \$/MVAR-year	325	56	0	0	57	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing		
0.31	0.83	1.07	1.00	0.90	MMW	4.56%	12.21%	15.74%	14.71%	13.24%	NO	56036.79 \$/MW-year	399	47	0	0	60	Cost estimate is generally equivalent to AAEC Estimate Class 4	New		
1.63	2.43	2.72	2.63	2.54	MMW	16.33%	25.00%	28.13%	27.20%	26.27%	NO	161326 \$/MW-year	399	47	0	0	60	Cost estimate is generally equivalent to AAEC Estimate Class 4	Existing		
0.00	0.00	1.85	1.91	1.91	MMW	0.00%	0.00%	15.55%	16.05%	16.05%	NO	11090.36 \$/MW-year	273	273	1	0	121	Cost estimate is generally equivalent to AAEC Estimate Class 4	New		
2.15	2.26	2.32	2.32	2.32	2.32 MVAR	359.00%	377.00%	386.00%	386.00%	386.00%	NO	1553.38 \$/MVAR-year	128	118	0	1	132	Cost estimate is generally equivalent to AAEC Estimate Class 5	New		
2.35	2.35	2.35	2.41	2.41	2.41 MVAR	260.71%	260.71%	260.71%	267.61%	267.61%	NO	2783.67 \$/MVAR-year	101	108	0	0	131	Cost estimate is generally equivalent to AAEC Estimate Class 5	New		
6.10	8.10	8.00	7.90	8.30	MMW						NO	28037.62 \$/MW-year	178	29	0	4	103	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
0.00	0.00	0.70	0.70	0.70	0.70 MW	0.00%	0.00%	6.42%	6.36%	6.36%	NO	45211.51 \$/MW-year	1271	72	0	44	239	Cost estimate is generally equivalent to AAEC Estimate Class 4	New		
0.00	0.03	0.03	0.03	0.03	0.03 MVAR	0.00%	20.13%	20.13%	20.13%	20.13%	NO	97467.66 \$/MVAR-year	97	159	0	0	79	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing		
0.00	0.24	0.20	0.13	0.09	MMW	0.00%	0.00%	1.71%	1.11%	0.77%	NO	153735.66 \$/MW-year	1581	90	0	0	128	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
0.00	0.00	0.00	0.00	1.59	MMW	0.00%	0.00%	0.00%	0.00%	13.29%	YES	28128.97 \$/MW-year	428	10	0	0	82	Cost estimate is generally equivalent to AAEC Estimate Class 5	Existing		
0.00	0.00	0.00	0.00	0.00	0.00 MW						NO	0 \$/MW-year	0	0	0	0	0	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
0.00	0.29	2.43	4.42	4.42	MMW	0.00%	2.42%	20.25%	36.83%	36.83%	NO	133859.77 \$/MW-year	855	21	0	0	72	Cost estimate is generally equivalent to AAEC Estimate Class 5	Existing		

GNA ID	DOOR ID	DOOR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment To Be Installed	Operating Date
GNA_2022_315	DOOR_2022_0182	DOOR_2022_4800	Saugus 66/16 (D)	null	Capacity	New Substation, New Circuit	Construct (1) New 66/16 kV Substation, Install (5) New 16 kV Circuits	Substation - New Substation, Primary Feeder - New Distribution Line	11/24/2027
	DOOR_2022_0187	DOOR_2022_6575	Mira Loma 220/66 (S)	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Replace Conductor	Primary Feeder - Overhead Conductor	6/30/2022
GNA_2022_164	DOOR_2022_0190	DOOR_2022_7188	385031	null	Capacity	Increase Substation Capacity, New Circuit	Install (1) New 12 kV Circuit, Install (1) New 2.4 kV Circuit, Upgrade (1) Substation Transformer, Install (1) Substation Transformer	Primary Feeder - New Distribution Line; Substation - Transformer	12/31/2023
GNA_2022_128	DOOR_2022_0200	DOOR_2022_8043	Garret 115/33 (D)	null	Capacity	Increase Substation Capacity	Install (2) 56 MVA Substation Transformers, Install (4) 10.2 MVAR Capacitor Banks	Substation - Transformer, Capacitor	12/31/2023
GNA_2022_237	DOOR_2022_0208	DOOR_2022_8102	036596	null	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
GNA_2022_237	DOOR_2022_0209	DOOR_2022_8102	036597	null	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
GNA_2022_128	DOOR_2022_0212	DOOR_2022_8126	Garret 115/33 (D)	null	Capacity	Increase Substation Capacity, New Circuit	Install (2) 56 MVA Transformers, Install (2) New 33kV Circuits	Primary Feeder - New Distribution Line, Transformer	6/1/2022
GNA_2022_59	DOOR_2022_0229	DOOR_2022_8256	Calcity 'A' 33/12 (D)	null	Capacity	New Substation, New Subtransmission Line	Construct (1) New 115/12 kV Substation, Install (2) New 115kV Subtransmission Lines	Substation - New Substation, New Subtransmission Line	5/1/2028
GNA_2022_60	DOOR_2022_0231	DOOR_2022_8256	Calcity 'B' 33/12 (D)	null	Capacity	New Substation, New Subtransmission Line	Construct (1) New 115/12 kV Substation, Install (2) New 115kV Subtransmission Lines	Substation - New Substation, New Subtransmission Line	5/1/2028
GNA_2022_62	DOOR_2022_0233	DOOR_2022_8271	Calden 66/16 (D)	null	Capacity	Increase Substation Capacity	Remove (2) 14 MVA Transformers and install (2) 28 MVA Transformers, Install (1) New 4.8 MVAR Capacitor Bank	Substation - Transformer, Capacitor	12/31/2022
GNA_2022_257	DOOR_2022_0234	DOOR_2022_8286	Imperial 66/12 (D)	null	Capacity	Increase Substation Capacity	Increase Conductor Size	Substation - Conductor	12/31/2022
GNA_2022_257	DOOR_2022_0235	DOOR_2022_8292	Santa Fe Springs 66/12 (D)	null	Capacity	Increase Substation Capacity	Remove (3) 12.3 MVA Transformers and install (2) 28 MVA Transformers	Substation - Transformer	6/1/2023
GNA_2022_173	DOOR_2022_0236	DOOR_2022_8293	Linden 12/4.16 (D)	null	Capacity	Increase Substation Capacity	Upgrade Switchrack	Substation - Switchrack	12/30/2022
GNA_2022_217	DOOR_2022_0246	DOOR_2022_8310	Palmdale 66/12 (D)	null	Capacity	Increase Substation Capacity	Remove (2) 22.4 MVA Transformers and install (2) 28 MVA Transformers	Substation - Transformer	12/31/2022
GNA_2022_200	DOOR_2022_0259	DOOR_2022_8330	277960	null	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	5/18/2022
GNA_2022_149	DOOR_2022_0262	DOOR_2022_8359	Kimbali 66/12 (D)	null	Capacity	Increase Substation Capacity, New Circuit	Install (2) New 12 kV Circuit, Upgrade (1) Substation Transformer	Primary Feeder - New Distribution Line; Substation - Transformer	6/1/2023
GNA_2022_33	DOOR_2022_0267	DOOR_2022_8369	Baker 115/12 (D)	null	Capacity	Increase Substation Capacity	Upgrade (2) Substation Transformer	Substation - Transformer	6/30/2023
GNA_2022_20	DOOR_2022_0268	DOOR_2022_8374	Archibald 66/12 (D)	null	Capacity	Increase Substation Capacity, New Circuit	Install (1) 28 MVA Transformer, Install (1) New 12kV Circuit, Install (1) 4.8 MVAR Substation Capacitor	Primary Feeder - New Distribution Line; Substation - Transformer, Capacitor	12/31/2023
GNA_2022_21	DOOR_2022_0281	DOOR_2022_8383	Athens 16/4.16 (D)	null	Capacity	Increase Substation Capacity, Increase Circuit Capacity	Upgrade Switchrack, Replace Disconnect Switch	Substation - Bus, Switch	6/1/2023
	DOOR_2022_0284	DOOR_2022_8388	Hickshaw 66/12 (D)	null	Capacity	Increase Substation Capacity	Upgrade Switchrack, Upgrade (1) Substation Transformer, Install (1) 4.8 MVAR Capacitor Bank	Substation - Bus, Capacitor, Transformer	6/1/2026
	DOOR_2022_0285	DOOR_2022_8402	Naomi 16/4.16 (D)	null	Capacity	Increase Substation Capacity	Upgrade Switchrack	Substation - Switchrack	6/1/2023
GNA_2022_213	DOOR_2022_0286	DOOR_2022_8459	372020	null	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/30/2023
GNA_2022_200	DOOR_2022_0288	DOOR_2022_8461	Newcomb 115/12 (D)	null	Capacity	Increase Substation Capacity	Upgrade Switchrack	Substation - Bus	6/1/2022
GNA_2022_149	DOOR_2022_0292	DOOR_2022_8467	434661	null	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025
GNA_2022_292	DOOR_2022_0295	DOOR_2022_8469	577046	null	Capacity	Increase Substation Capacity, New Circuit	Install (1) New 12 kV Circuit, Install (1) 28 MVA Transformer	Primary Feeder - New Distribution Line; Substation - Transformer	6/1/2025
GNA_2022_3	DOOR_2022_0296	DOOR_2022_8476	Alessandro 115/33 (D)	null	Capacity	Increase Substation Capacity	Install (1) 28 MVA Transformer	Substation - Transformer	6/1/2025
GNA_2022_189	DOOR_2022_0301	DOOR_2022_8481	Mira Loma 66/12 (D)	null	Capacity	Increase Substation Capacity	Install (1) 28 MVA Transformer	Substation - Transformer	6/1/2025
GNA_2022_53	DOOR_2022_0302	DOOR_2022_8482	Bunker 115/12 (D)	null	Capacity	Increase Substation Capacity	Install (1) 28 MVA Transformer	Substation - Transformer	6/1/2026
GNA_2022_149	DOOR_2022_0310	DOOR_2022_8496	Kimbali 66/12 (D)	null	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2024
GNA_2022_301	DOOR_2022_0325	DOOR_2022_853002	Weldon 66/12 (D)	null	Reliability, Capacity	Outage Contingency Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	12/31/2024
GNA_2022_204	DOOR_2022_0342	DOOR_2022_05935666	North Oaks 66/16 (D)	null	Capacity	Increase Substation Capacity	Upgrade (2) Substation Transformers	Substation - Transformer	6/1/2025
GNA_2022_46	DOOR_2022_0345	DOOR_2022_05935738	532018	null	Capacity	New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025
GNA_2022_278	DOOR_2022_0346	DOOR_2022_05935747	Sunnyside 66/12 (D)	null	Capacity	Increase Substation Capacity	Replace Disconnect Switch	Substation - Switch	6/1/2026
GNA_2022_320	DOOR_2022_0351	DOOR_2022_6030	Valley-Elsnore-Fogarty 115 kV	null	Reliability	New Line	Install (1) New 115 kV Subtransmission Line	Substation - New Subtransmission Line	6/24/2022
GNA_2022_184	DOOR_2022_0352	DOOR_2022_6055	Mesa-Narrows 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2025
GNA_2022_294	DOOR_2022_0353	DOOR_2022_6092	Valley EFG 500/115 (S)	null	Capacity	New Substation, New Subtransmission Line	Construct (1) New 500/115 kV Substation, Install New 115kV Subtransmission Lines	Substation - New Substation, New Subtransmission Line	6/29/2029
GNA_2022_317	DOOR_2022_0354	DOOR_2022_6652	Saugus-Elizabeth Lake-MWD Foothill 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2023
GNA_2022_112	DOOR_2022_0355	DOOR_2022_6698	Elizabeth Lake-Pitchgen 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2026
GNA_2022_241	DOOR_2022_0356	DOOR_2022_6871	Rector-Riverway 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, New Line	Install (1) New 66 kV Subtransmission Line	Substation - New Subtransmission Line	6/1/2026
GNA_2022_308	DOOR_2022_0357	DOOR_2022_7740	Del Amo 'A' 220/66 (S)	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Substation Capacity	Reconductor 66 kV buses	Substation - Subtransmission Conductor	12/31/2022
GNA_2022_143	DOOR_2022_0358	DOOR_2022_7767	Johanna 220/66 (S)	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Substation Capacity	Install (1) 280 MVA Substation Transformer	Transmission - Transmission Transformer	6/1/2024
GNA_2022_43	DOOR_2022_0359	DOOR_2022_8068	Browning 66/12 (D)	null	Reliability, Voltage	Outage Contingency Mitigation, Project to Address Voltage Concern, New Line	Install (1) New 66 kV Subtransmission Line	Substation - New Subtransmission Line	6/1/2025
GNA_2022_238	DOOR_2022_0360	DOOR_2022_8069	Quinn 66/12 (D)	null	Reliability, Voltage	Outage Contingency Mitigation, Project to Address Voltage Concern, New Line	Install (1) New 66 kV Subtransmission Line	Substation - New Subtransmission Line	6/1/2025
GNA_2022_314	DOOR_2022_0361	DOOR_2022_8121	Mesa 220/66 (S)	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2024
GNA_2022_262	DOOR_2022_0362	DOOR_2022_8151	Santiago-Irvine No. 2 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, New Protection Equipment Installation	Replace (1) Circuit Breaker, Upgrade Switchrack, Install New MEER	Substation - Protection Equipment	6/1/2022
GNA_2022_106	DOOR_2022_0363	DOOR_2022_8156	Eisenhower 115/33 (D)	null	Reliability, Voltage	Outage Contingency Mitigation, Project to Address Voltage Concern	Install (1) 14.4 MVAR Capacitor Bank	Substation - Capacitor	6/1/2023
GNA_2022_282	DOOR_2022_0364	DOOR_2022_8156	Hornhill 115/12 (D)	null	Reliability, Voltage	Outage Contingency Mitigation, Project to Address Voltage Concern	Install (1) 14.4 MVAR Capacitor Bank	Substation - Capacitor	6/1/2023
GNA_2022_318	DOOR_2022_0365	DOOR_2022_8251	Saugus-Newhall No. 1 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Cable Size	Substation - Subtransmission Cable	12/31/2023
GNA_2022_319	DOOR_2022_0366	DOOR_2022_8251	Saugus-Newhall No. 2 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Cable Size	Substation - Subtransmission Cable	12/31/2023
GNA_2022_316	DOOR_2022_0367	DOOR_2022_8252	Saugus-Colossus-Lockheed-Pitchgen 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2023
GNA_2022_105	DOOR_2022_0368	DOOR_2022_8253	Edwards 115/33 (D)	null	Voltage	Project to Address Voltage Concern	Install (1) 14.4 MVAR Capacitor Bank	Substation - Capacitor	6/1/2024
GNA_2022_152	DOOR_2022_0369	DOOR_2022_8253	Southeast 115/33 (D)	null	Voltage	Project to Address Voltage Concern	Install (2) 14.4 MVAR Capacitor Bank	Substation - Capacitor	6/1/2024
GNA_2022_152	DOOR_2022_0370	DOOR_2022_8403	Kramer-Holgate 115 kV	null	Capacity	Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2024
GNA_2022_310	DOOR_2022_0371	DOOR_2022_8403	Edwards-Holgate 115 kV	null	Capacity	Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2024
GNA_2022_241	DOOR_2022_0372	DOOR_2022_8417	Rector-Riverway 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Install Load Shedding Scheme	Substation - Protection Equipment	6/1/2022
GNA_2022_255	DOOR_2022_0373	DOOR_2022_8425	Edwards-Lake - Coloma 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2024
GNA_2022_312	DOOR_2022_0374	DOOR_2022_8477	Eltwanda 'W' 220/66 (S)	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Replace (2) Circuit Breakers	Substation - Circuit Breaker	6/1/2024
GNA_2022_311	DOOR_2022_0375	DOOR_2022_8507	Eltwanda 'W' 220/66 (S)	null	Reactive Power	System Reactive Power Deficit Mitigation	Install (1) 28.8 MVAR Capacitor Bank	Substation - Capacitor	6/1/2024
GNA_2022_265	DOOR_2022_0376	DOOR_2022_8509	Saugus - Haskell 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2026
GNA_2022_313	DOOR_2022_0377	DOOR_2022_TSP 51135270	Iogen-Jersey-Nola 66kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Open Shields on 66 kV Subtransmission Line	Substation - Subtransmission Cable	6/1/2023
GNA_2022_194	DOOR_2022_0378	DOOR_2022_TSP 51135557	Neenach 66/12 (D)	null	Reliability, Voltage	Project to Address Voltage Concern	Install (1) 14.4 MVAR Capacitor Bank	Substation - Capacitor	6/1/2023
GNA_2022_43	DOOR_2022_0379	DOOR_2022_TSP 51135729	Browning 66/12 (D)	null	Reliability, Voltage	Outage Contingency Mitigation, Project to Address Voltage Concern, New Capacitor Installation	Install (1) Temporary 14.4 MVR Capacitor Bank	Substation - Capacitor	6/1/2023
GNA_2022_218	DOOR_2022_0380	DOOR_2022_TSP 51135729	Quinn 66/12 (D)	null	Reliability, Voltage	Outage Contingency Mitigation, Project to Address Voltage Concern, New Capacitor Installation	Install (1) Temporary 14.4 MVR Capacitor Bank	Substation - Capacitor	6/1/2023
GNA_2022_309	DOOR_2022_0381	DOOR_2022_TSP 51135783	Del Sur-Lancaster-Riteaid 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2024
GNA_2022_309	DOOR_2022_0382	DOOR_2022_TSP 51135783	Del Sur-Lancaster-Riteaid 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2024
GNA_2022_208	DOOR_2022_0383	DOOR_2022_TSP 51135784	Oasis 66/12 (D)	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Substation Conductor Upgrade	Substation - Subtransmission Conductor	6/1/2023
GNA_2022_321	DOOR_2022_0384	DOOR_2022_TSP 51135785	Oasis - Palmdale - Quartz Hill 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2023
GNA_2022_101	DOOR_2022_0385	DOOR_2022_TSP 51135570	Dewens 220/115 (S)	null	Reactive Power	System Reactive Power Deficit Mitigation	Install (1) New 28.8 MVAR Capacitor	Substation - Capacitor	6/1/2026
	DOOR_2022_0279	DOOR_2022_8378	377668	Oakdale	Capacity (LCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
	DOOR_2022_0197	DOOR_2022_7978	959288	Elizabeth Lake 66/16 (D)	Oboe	Capacity (LCT)	Underground Cable Temperature Mitigation, New Circuit	Primary Feeder - New Distribution Line	6/1/2026
	DOOR_2022_0190	DOOR_2022_7188	385031	O'Malley	Capacity (LCT)	Underground Cable Temperature Mitigation	Install (1) New 12 kV Circuit	Primary Feeder - Cable Switch	6/1/2023
GNA_2022_176	DOOR_2022_0278	DOOR_2022_259628	Lockheed 66/16 (D)	Osner	Capacity	Increase Circuit Capacity	Increase Circuit Size, Install (1) New Switch	Primary Feeder - Overhead Conductor, Switch	6/2/2023
GNA_2022_98	DOOR_2022_0347	DOOR_2022_05935767	Delano 66/12 (D)	O'Tole	Capacity (LCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	12/3/2024
GNA_2022_190	DOOR_2022_0381	DOOR_2022_147946	Murphy 66/12 (D)	O'Tole	Capacity (LCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2022
GNA_2022_61	DOOR_2022_0227	DOOR_2022_8243	086646	Overall	Capacity	Increase Circuit Capacity	Install New Conductor, Increase Conductor Size, Install (5) Remote Control Switches, Install (2) New Remote Automatic Reclosers, Install (2) New Switches	Primary Feeder - Overhead Conductor, Switch	12/31/2022
GNA_2022_61	DOOR_2022_0228	DOOR_2022_8243	286923	Overall	Capacity	New Circuit	Install (1) New 12kV Circuit	Primary Feeder - New Distribution Line	6/30/2023
GNA_2022_61	DOOR_2022_0232	DOOR_2022_8256	Calcity 'B' 33/12 (D)	Overall	Capacity	New Substation, New Subtransmission Line	Construct (1) New 115/12 kV Substation, Install (2) New 115kV Subtransmission Lines	Substation - New Substation, New Subtransmission Line	5/1/2028
	DOOR_2022_0236	DOOR_2022_142866	Culver 66/14.16 (D)	Overland	Capacity	Project to Facilitate Transformer Conversion	4 kV to 16 kV Conversion, Remove (18) 4 kV Transformers and install 16 kV Transformers on 16 kV Circuit	Primary Feeder - Overhead Conductor, Transformer	5/1/2022
GNA_2022_183	DOOR_2022_0299	DOOR_2022_127852	Mulflower 16/4.16 (D)	Dwl	Capacity	Project to Facilitate Transformer Conversion	4 kV to 16 kV Conversion, Remove (15) 4 kV Transformers and install New 16 kV Transformers on 16 kV Circuit	Primary Feeder - Overhead Conductor, Transformer	6/1/2023
GNA_2022_218	DOOR_2022_0236	DOOR_2022_136846	Palmdale 66/12 (D)	Paddy	Capacity (LCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2022
GNA_2022_218	DOOR_2022_0233	DOOR_2022_136791	Palmdale 66/12 (D)	Paddy	Capacity (LCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Remote Control Switches	Primary Feeder - Switch	6/1/2023
GNA_2022_218	DOOR_2022_0235	DOOR_2022_136792	Palmdale 66/12 (D)	Paddy	Capacity (LCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Remote Control Switches	Primary Feeder - Switch	6/1/2023
GNA_2022_219	DOOR_2022_0237	DOOR_2022_136846	Palmdale 66/12 (D)	Paint	Capacity (LCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Increase Cable Size	Primary Feeder - Cable Switch	6/1/2023
GNA_2022_219	DOOR_2022_0236	DOOR_2022_136794	Palmdale 66/12 (D)	Paint	Capacity (LCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (2) New Remote Control Switches	Primary Feeder - Switch	6/1/2023
GNA_2022_219	DOOR_2022_0237	DOOR_2022_136789	Palmdale 66/12 (D)	Paint	Capacity (LCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Remote Control Switches	Primary Feeder - Switch	6/1/2023
GNA_2022_258	DOOR_2022_0238	DOOR_2022_247189	Santa Fe Springs 66/12 (D)	Painter	Capacity	Project to Facilitate Load Transfer	Install (1) New Switch	Primary Feeder - Switch	6/1/2022
GNA_2022_67	DOOR_2022_0157	DOOR_2022_4652	334082	Palace	Capacity (LCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Install New Cable, Replace Cable, Install (1) New Switch	Primary Feeder - Cable, Switch	6/1/2023
GNA_2022_67	DOOR_2022_0163	DOOR_2022_424565	Chase 66/12 (D)	Palace	Capacity	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Increase Cable Size, Install (1) New Switch	Primary Feeder - Cable Switch	6/1/2024
GNA_2022_67	DOOR_2022_0235	DOOR_2022_05934759	334554	Palace	Capacity (LCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025
GNA_2022_71	DOOR_2022_0259	DOOR_2022_							

Deficiency (MW, MVAR or VPU)					Deficiency %					DER Eligible Service	LNUA Values	Residential Customer	Commercial Customer	Industrial Customer	Agricultural Customer	Other Customer	Notes	AAEC Level of Cost Estimate	Project History	
2022 ^a	2023 ^a	2024 ^a	2025 ^a	2026 ^a	Units	2022 ^a	2023 ^a	2024 ^a	2025 ^a											2026 ^a
CAISO: N/A CPUC: Addendum to the developers Environmental Impact Report (AEIR) being discussed. SCE may determine project is exempt from GO 131-D and file an Advice Letter in 2023. 898 SCE: Licensing activities authorized internally in 2015.																				
0.00	0.00	0.00	0.00	0.00	0.00 MW	0.00%	0.00%	0.00%	0.00%	0.00%	YES	189659.87 \$/MW-year	3080	1376	5	0	898 SCE: Licensing activities authorized internally in 2015.	Cost estimate is generally equivalent to AAEC Estimate Class 5	Existing	
5.00	6.00	6.00	6.00	6.00	6.00 MW	2.98%	3.57%	3.57%	3.57%	3.57%	NO	153543.22 \$/MW-year	43891	8158	86	24	7983	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing	
0.44	0.44	0.47	0.49	0.51	MW	29.33%	29.33%	31.33%	32.67%	34.00%	NO	422840.1 \$/MW-year	0	0	0	0	0	Cost estimate is generally equivalent to AAEC Estimate Class 4	Existing	
0.00	0.00	0.00	0.00	0.00	40.26 MW						NO	72136 \$/MW-year	0	18	0	1	68	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing	
4.35	4.20	4.22	4.13	4.04	MW	6.67%	6.44%	6.47%	6.34%	6.20%	NO	63365.97 \$/MW-year	7046	298	1	5	691	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing	
4.56	4.41	4.43	4.30	4.26	MW	7.00%	6.77%	6.80%	6.67%	6.54%	NO	63365.97 \$/MW-year	7046	298	1	5	691	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing	
0.00	0.00	0.00	0.00	31.20 MW							NO	7747.05 \$/MW-year	0	18	0	1	68	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing	
CAISO: N/A CPUC: Anticipate PTC filing 2023, estimate approval 2025. 278 SCE: Licensing activities authorized internally in 2019.																				
6.00	6.00	5.90	5.90	5.80	MW	55.76%	42.13%	41.43%	41.43%	40.73%	YES	415801.83 \$/MW-year	1677	103	0	0	278 SCE: Licensing activities authorized internally in 2019.	Cost estimate is generally equivalent to AAEC Estimate Class 4	Existing	
CAISO: N/A CPUC: Anticipate PTC filing 2023, estimate approval 2025. 197 SCE: Licensing activities authorized internally in 2019.																				
0.00	3.10	26.60	48.00	71.20	MW	0.00%	17.03%	146.15%	263.74%	391.21%	YES	415801.83 \$/MW-year	1230	86	0	0	197 SCE: Licensing activities authorized internally in 2019.	Cost estimate is generally equivalent to AAEC Estimate Class 4	Existing	
7.80	7.70	7.70	7.60	7.50	MW	30.00%	29.62%	29.62%	29.23%	28.85%	NO	16379.74 \$/MW-year	4072	722	0	0	874	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing	
0.00	0.00	0.00	0.00	0.00	0.00 MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MW-year	2356	1043	20	0	771	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing	
17.13	19.03	18.03	18.83	18.63	MW	17.80%	19.54%	19.44%	19.34%	19.13%	NO	8069.9 \$/MW-year	1927	32	9	0	900	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing	
1.60	1.60	1.60	1.60	1.60	MW	34.93%	34.93%	34.93%	34.93%	34.93%	NO	6511.26 \$/MW-year	864	106	0	2	186	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing	
10.91	10.61	8.59	8.33	8.04	MW	9.53%	9.27%	7.51%	7.28%	7.02%	NO	29618.62 \$/MW-year	16174	698	7	3	1047	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing	
0.00	1.41	1.87	1.83	2.87	MW	0.00%	11.79%	15.64%	15.30%	24.00%	NO	31214.24 \$/MW-year	13287	936	1	1	1331	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing	
0.00	28.73	22.53	26.03	27.73	MW	0.00%	26.66%	20.91%	24.15%	25.73%	NO	20999.34 \$/MW-year	4647	576	0	7	783	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing	
2.26	4.16	4.16	4.16	4.06	MW	37.42%	68.87%	68.87%	68.87%	67.22%	NO	27369.87 \$/MW-year	50	86	0	0	184	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing	
0.00	0.00	5.28	11.17	12.41	MW	0.00%	0.00%	5.58%	11.80%	13.11%	NO	36594.69 \$/MW-year	5709	589	2	16	898	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing	
1.20	1.30	1.30	1.30	1.30	MW	19.67%	21.31%	21.31%	21.31%	21.31%	NO	6163.3 \$/MW-year	911	78	0	0	145	Cost estimate is generally equivalent to AAEC Estimate Class 1	New	
0.00	0.00	0.00	0.00	0.00	0.00 MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MW-year	1155	1	2	0	108	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing	
0.00	0.00	0.00	0.00	0.00	0.00 MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	5611.69 \$/MW-year	869	181	0	0	196	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing	
0.00	1.40	1.40	1.30	1.30	MW	0.00%	14.80%	14.80%	13.74%	13.74%	NO	61951.64 \$/MW-year	955	0	0	0	319	Cost estimate is generally equivalent to AAEC Estimate Class 3	Existing	
9.65	0.00	0.00	0.00	0.00	0.00 MW	7.39%	0.00%	0.00%	0.00%	0.00%	NO	650.9 \$/MW-year	13287	936	1	1	1331	Cost estimate is generally equivalent to AAEC Estimate Class 1	New	
0.00	0.00	0.00	1.65	3.27	MW	0.00%	0.00%	0.00%	1.16%	2.29%	NO	15759.75 \$/MW-year	4647	576	0	7	783	Cost estimate is generally equivalent to AAEC Estimate Class 5	New	
0.00	0.00	0.00	1.13	1.13	MW	0.00%	0.00%	0.00%	1.20%	6.30%	YES	28.12 \$/MW-year	7326	0	0	0	923	Cost estimate is generally equivalent to AAEC Estimate Class 5	New	
0.00	0.00	0.57	1.17	1.07	MW						YES	61140.03 \$/MW-year	3511	222	4	0	594	Cost estimate is generally equivalent to AAEC Estimate Class 5	New	
0.00	0.52	1.57	3.04	3.50	MW	0.00%	0.71%	2.16%	4.18%	4.81%	YES	32349.76 \$/MW-year	0	3345	0	0	482	Cost estimate is generally equivalent to AAEC Estimate Class 5	New	
0.00	0.00	0.13	0.59	0.54	MW	0.00%	0.00%	0.12%	0.54%	0.50%	NO	439013.76 \$/MW-year	6148	478	7	0	847	Cost estimate is generally equivalent to AAEC Estimate Class 5	New	
0.00	0.00	0.00	0.00	1.20	MW	0.00%	0.00%	0.00%	0.00%	0.84%	NO	15047.86 \$/MW-year	4647	576	0	7	783	Cost estimate is generally equivalent to AAEC Estimate Class 5	New	
4.50	4.50	4.50	4.40	4.40	MW	11.08%	11.08%	11.08%	10.84%	10.84%	NO	1305006.16 \$/Vpu-year	486	53	0	0	285	Cost estimate is generally equivalent to AAEC Estimate Class 5	Existing	
6.55	9.64	11.42	13.03	14.00	MW	5.60%	8.25%	9.77%	11.14%	11.97%	YES	14054.18 \$/MW-year	6716	1568	2	1	1422	Cost estimate is generally equivalent to AAEC Estimate Class 5	Existing	
0.00	0.00	2.10	1.60	1.10	MW	0.00%	0.00%	2.55%	1.94%	1.94%	YES	196897.25 \$/MW-year	7518	1533	6	0	2021	Cost estimate is generally equivalent to AAEC Estimate Class 5	Existing	
0.00	0.00	0.00	0.00	0.01	MW	0.00%	0.00%	0.00%	0.00%	0.01%	YES	10843.34 \$/MW-year	5790	1160	3	3	1487	Cost estimate is generally equivalent to AAEC Estimate Class 5	New	
CAISO: N/A CPUC: PTC Issued in 2018 CPUC: SCE Construction Complete																				
8.00	8.00	8.00	9.00	10.00	MW	4.37%	4.37%	4.37%	4.92%	5.46%	NO	863513.93 \$/MW-year	16095	1744	4	6	2107	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing	
0.20	0.50	0.60	0.50	0.40	MW	7.20%	7.53%	7.63%	7.53%	7.42%	YES	360648.45 \$/MW-year	8541	2114	8	24	2117	Cost estimate is generally equivalent to AAEC Estimate Class 4	Existing	
CPUC: Approval in 2009 CPUC: Certificate of Public Convenience and Necessity (CPCN) under review. CPUC: Estimated approval mid 2024																				
205.30	218.60	225.00	228.10	237.40	MW	22.91%	24.40%	25.11%	25.46%	26.50%	YES	192383.17 \$/MW-year	82475	11370	27	40	10417	Cost estimate is generally equivalent to AAEC Estimate Class 5	Existing	
0.00	3.77	5.27	6.93	10.14	MW	0.00%	4.54%	6.35%	8.35%	12.22%	NO	15371.5 \$/MW-year	5902	2024	11	2	1454	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing	
0.00	0.00	0.00	0.00	1.36	MW	0.00%	0.00%	0.00%	0.00%	1.64%	YES	90750.13 \$/MW-year	2822	648	6	2	556	Cost estimate is generally equivalent to AAEC Estimate Class 5	Existing	
14.05	16.65	17.35	17.45	17.45	MW	9.91%	11.75%	12.24%	12.31%	12.31%	NO	150394.21 \$/MW-year	14900	1009	1	202	1217	Cost estimate is generally equivalent to AAEC Estimate Class 3	Existing	
18.60	17.40	15.20	16.30	15.80	MW	5.83%	5.45%	4.76%	5.11%	4.95%	NO	18120 \$/MW-year	18756	3258	6	17	3505	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing	
10.00	21.10	26.90	26.20	27.30	MW	2.37%	5.00%	6.37%	6.26%	6.21%	NO	59086.57 \$/MW-year	25767	7048	91	13	4800	Cost estimate is generally equivalent to AAEC Estimate Class 5	Existing	
0.95	0.95	0.95	0.95	0.95	Vpu	94.70%	94.55%	94.55%	94.70%	94.70%	YES	52363.09 \$/MW-year	723	88	0	80	339	Cost estimate is generally equivalent to AAEC Estimate Class 2	New	
0.93	0.93	0.93	0.93	0.93	Vpu	93.18%	93.03%	93.03%	93.03%	93.03%	YES	52363.09 \$/MW-year	723	88	0	80	339	Cost estimate is generally equivalent to AAEC Estimate Class 2	New	
6.70	7.00	7.10	7.00	6.90	MW	7.20%	7.53%	7.63%	7.53%	7.42%	NO	26271.51 \$/MW-year	12691	12691	72	37	11327	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing	
0.00	0.00	5.06	9.95	11.51	MW	0.00%	0.00%	3.69%	7.26%	8.40%	NO	5623.77 \$/MW-year	22110	5	2	2934	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
0.95	0.95	0.95	0.95	0.96	Vpu	95.30%	95.00%	94.90%	94.80%	95.50%	NO	134450.74 \$/Vpu-year	254	1541	0	3	1599	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing	
0.95	0.95	0.95	0.95	0.96	Vpu	95.30%	95.00%	94.90%	94.80%	95.50%	NO	134450.74 \$/Vpu-year	254	1541	0	3	1599	Cost estimate is generally equivalent to AAEC Estimate Class 2	Existing	
9.52	12.86	14.15	12.87	15.92	MW	8.21%	11.09%	12.20%	11.09%	13.72%	NO	28073.41 \$/MW-year	10264	5	5	2052	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
0.00	3.54	5.03	6.73	9.93	MW	0.00%	4.27%	6.06%	8.11%	11.96%	NO	37978.31 \$/MW-year	5643	7	6	1419	Cost estimate is generally equivalent to AAEC Estimate Class 1	Existing		
0.95	0.93	0.87	0.87	0.87	Vpu	94.52%	92.52%	87.39%	87.39%	87.39%	NO	110451.65 \$/Vpu-year	0	181	0	0	355	Cost estimate is generally equivalent to AAEC Estimate Class 5	Existing	
0.94	0.92	0.87	0.87	0.87	Vpu	94.00%	92.00%	86.96%	86.96%	86.96%	NO	110453.12 \$/Vpu-year	0	113	0	0	2	Cost estimate is generally equivalent to AAEC Estimate Class 5	Existing	
0.00	0.00	13.00	13.10	13.10	MW	0.00%	0.00%	16.25%	16.38%	16.38%	NO	12916.98 \$/MW-year	258	1	0	23	0	Cost estimate is generally equivalent		

GNA ID	DOOR ID	DOOR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment To Be Installed	Operating Date
GNA_2022_285	DOOR_2022_DV26	DOOR_2022_2022_DVAR Plan_29	Torilla 115/12 (D)	Patio	Voltage	Project to Address Voltage Concern, New Capacitor Installation	(2) New Capacitors On Ground (Padmounted)	Primary Feeder - Capacitor	12/31/2022
GNA_2022_220	DOOR_2022_D22	DOOR_2022_136848	Palmdale 66/12 (D)	Pearland	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Switch	Primary Feeder - Switch	6/1/2022
	DOOR_2022_DV16	DOOR_2022_2022_DVAR Plan_18	Rush 66/16 (D)	Peck	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(2) New Capacitors On Ground (Padmounted)	Primary Feeder - Capacitor	12/31/2022
	DOOR_2022_DV17	DOOR_2022_2022_DVAR Plan_19	Beverly 66/4.16 (D)	Peck	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2022
	DOOR_2022_DV18	DOOR_2022_2022_DVAR Plan_20	Roadway 115/12 (D)	Pegaso	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	12/31/2022
GNA_2022_5	DOOR_2022_DV27	DOOR_2022_2022_DVAR Plan_1	Anavende 66/12 (D)	Pelona	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2023
	DOOR_2022_DV19	DOOR_2022_2022_DVAR Plan_21	La Habra 66/12 (D)	Pennmar	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2022
GNA_2022_250	DOOR_2022_D282	DOOR_2022_2022_DVAR Plan_10	Roadway 115/12 (D)	Petrol	Capacity	Project to Address Reactive Power Concern, New Capacitor Installation	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
GNA_2022_250	DOOR_2022_D283	DOOR_2022_2022_DVAR Plan_11	Roadway 115/12 (D)	Peterbilt	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
	DOOR_2022_DV20	DOOR_2022_2022_DVAR Plan_22	Roadway 115/12 (D)	Peterbilt	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	12/31/2022
GNA_2022_161	DOOR_2022_D205	DOOR_2022_8101_036615	Lancaster 66/12 (D)	Phillips	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Reroute Circuit, Increase Cable Size	Primary Feeder - Cable	9/1/2022
	DOOR_2022_D280	DOOR_2022_8378_377668	Newcomb 115/12 (D)	Piedra	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	4kV to 16 kV Conversion, Remove (23) 4kV Transformers and Install 16kV Transformers on 16kV Circuit, Install New Conductor, Replace Conductor, Relocate (1) 150 VVA Capacitor	Primary Feeder - New Distribution Line	6/1/2023
GNA_2022_42	DOOR_2022_D191	DOOR_2022_732052	Brewster 16/4.16 (D)	Pinehurst	Capacity	Project to Facilitate Transformer Conversion	Install (2) 200A 33 kV Regulators, Install (1) New Remote Automatic Recloser	Primary Feeder - Capacitor, Overhead Conductor, Transformer	12/31/2023
GNA_2022_137	DOOR_2022_D186	DOOR_2022_584001	Hi Desert 115/33 (D)	Pinto	Voltage	Project to Address Voltage Concern	Install (1) New Closed Delta Voltage Regulator, Install (1) New Remote Automatic Recloser, Install (1) New Switch, Replace Conductor, Increase Conductor Size, Replace Cable, Install New Cable, Construct Civil Projects	Primary Feeder - Voltage Regulator, Switch	7/31/2022
GNA_2022_307	DOOR_2022_D328	DOOR_2022_984254	Yuca 115/12 (D)	Pioneertown	Voltage	Project to Address Voltage Concern	Install (1) New Remote Automatic Recloser, Increase Circuit Capacity	Primary Feeder - Cable, Overhead Conductor, Voltage Regulator, Switch	12/31/2022
	DOOR_2022_D57	DOOR_2022_243199	Estrella 66/12 (D)	Pisces	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Install (1) New Remote Automatic Recloser, Increase Cable Size	Primary Feeder - Cable, Switch	5/1/2023
GNA_2022_79	DOOR_2022_D224	DOOR_2022_8155_979295	Concho 115/12 (D)	Pistola	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size, Construct Civil Projects	Primary Feeder - Cable	6/1/2022
GNA_2022_248	DOOR_2022_DV21	DOOR_2022_2022_DVAR Plan_23	Rio Hondo 66/16 (D)	Pis	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Reactor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2022
GNA_2022_235	DOOR_2022_D29	DOOR_2022_147945	Pioneer 12/4.16 (D)	Puma	Capacity	Project to Facilitate Transformer Conversion	4 kV to 12 kV Conversion, Remove (30) 4 kV Transformers and Install 12 kV Transformers on 12 kV Circuit	Primary Feeder - Overhead Conductor, Transformer	6/1/2022
	DOOR_2022_D10	DOOR_2022_06328_459030	Saugus 66/16 (D)	Placenta	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026
GNA_2022_88	DOOR_2022_DV31	DOOR_2022_2023_DVAR Plan_6	Corona 66/33 (D)	Porphyry	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2023
GNA_2022_203	DOOR_2022_D219	DOOR_2022_136848	Newhall 66/16 (D)	Power	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
GNA_2022_77	DOOR_2022_D13	DOOR_2022_131048	Colton 66/12 (D)	Preston	Voltage	Project to Address Voltage Concern	Install (1) 833 kVA Voltage Regulator	Primary Feeder - Voltage Regulator	6/1/2023
GNA_2022_118	DOOR_2022_D188	DOOR_2022_6862_930258	Etiwanda 66/12 (D)	Prior	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
GNA_2022_230	DOOR_2022_D167	DOOR_2022_434568	Pedley 66/12 (D)	Quarry	Capacity	Increase Circuit Capacity	Install (1) New Remote Automatic recloser	Primary Feeder - Switch, Protection	2/1/2024
GNA_2022_162	DOOR_2022_D206	DOOR_2022_036615	Quintanilla 66/12 (D)	Quintanilla	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Substation Capacity, New Circuit	Install (1) New 12 kV Circuit, Rebuild Switchback	Primary Feeder - New Distribution Line, Substation - Bus	6/1/2023
GNA_2022_298	DOOR_2022_D262	DOOR_2022_2022_DVAR Plan_24	Villa Park 66/12 (D)	Rader	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2022
GNA_2022_279	DOOR_2022_D66	DOOR_2022_246887	Sunnyview 66/4.16 (D)	Raton	Capacity	Project to Facilitate Transformer Conversion	4 kV to 12 kV Conversion, Remove (17) 4 kV Transformers and Install New 12 kV Transformers on 12 kV Circuit	Primary Feeder - Overhead Conductor, Transformer	12/31/2022
GNA_2022_280	DOOR_2022_D19	DOOR_2022_729028	Talbert 66/12 (D)	Raven	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Increase Conductor Size	Primary Feeder - Overhead Conductor	6/1/2026
GNA_2022_280	DOOR_2022_D317	DOOR_2022_8505_429067	Talbert 66/12 (D)	Raven	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025
GNA_2022_221	DOOR_2022_D18	DOOR_2022_136848	Palmdale 66/12 (D)	Razor	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2022
GNA_2022_221	DOOR_2022_D120	DOOR_2022_136789	Palmdale 66/12 (D)	Razor	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Remote Control Switches	Primary Feeder - Switch	6/1/2023
GNA_2022_38	DOOR_2022_D315	DOOR_2022_530023	Redball 66/12 (D)	Redball	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026
GNA_2022_185	DOOR_2022_D107	DOOR_2022_334557	Milliken 66/12 (D)	Redabel	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Replace Cable, Reroute Circuit, Install New Cable	Primary Feeder - Cable	6/1/2023
	DOOR_2022_D327	DOOR_2022_977279	Nelson 115/33 (D)	Resort	Reliability, Capacity	Outage Contingency Mitigation, Project to Facilitate Load Transfer	Install New Conductor	Primary Feeder - Overhead Conductor	12/31/2022
GNA_2022_245	DOOR_2022_D152	DOOR_2022_4052_027588	Rio Hondo 66/12 (D)	Rhine	Capacity (UCT)	Underground Cable Temperature Mitigation	Reroute Circuit, Install New Cable, Install New Conductor, Install (4) New Switches, Construct Civil Projects	Primary Feeder - Cable, Conductor, Switch	6/1/2023
GNA_2022_303	DOOR_2022_DV52	DOOR_2022_2023_DVAR Plan_28	Wimbleton 66/12 (D)	Riggs	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2023
	DOOR_2022_D4	DOOR_2022_042489	Santa Monica 66/16 (D)	Riptide	Capacity (UCT)	Underground Cable Temperature Mitigation	Replace Cable, Construct Civil Projects	Primary Feeder - Cable	8/1/2022
GNA_2022_102	DOOR_2022_D84	DOOR_2022_286921	Downs 115/12 (D)	Rocket Town	Capacity	Increase Circuit Capacity	Increase Conductor Size	Primary Feeder - Conductor	6/1/2022
GNA_2022_102	DOOR_2022_D46	DOOR_2022_386022	Downs 115/12 (D)	Rocket Town	Capacity	Increase Circuit Capacity	Install (1) New Remote Automatic Recloser	Primary Feeder - Switch	6/1/2023
GNA_2022_299	DOOR_2022_D96	DOOR_2022_136204	Walnut 66/12 (D)	Rockhill	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2023
GNA_2022_270	DOOR_2022_D42	DOOR_2022_231789	Shandin 115/12 (D)	Roi-Tan	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Increase Cable Size, Install New Cable, Install (1) New Remote Automatic Recloser	Primary Feeder - Cable, Switch	5/1/2022
GNA_2022_274	DOOR_2022_D144	DOOR_2022_137688	Stetson 115/12 (D)	Rotec	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install New Conductor, Install (2) New Switch, Install (1) 1200 kVAR Capacitor Bank	Primary Feeder - Capacitor, Overhead Conductor, Switch	9/1/2023
GNA_2022_170	DOOR_2022_D261	DOOR_2022_143300	Limestone 66/12 (D)	Rube	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2023
GNA_2022_237	DOOR_2022_DV23	DOOR_2022_2022_DVAR Plan_26	Crown 66/12 (D)	Rutgers	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	12/31/2022
	DOOR_2022_D28	DOOR_2022_143878	Estrella 66/12 (D)	Sagittarius	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	5/1/2022
GNA_2022_286	DOOR_2022_D329	DOOR_2022_0290358_688019	Triton 115/12 (D)	Seawolf	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026
GNA_2022_115	DOOR_2022_D176	DOOR_2022_246889	Estrella 12/4.16 (D)	Sensara	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	12/31/2022
GNA_2022_85	DOOR_2022_D55	DOOR_2022_234816	Corona 66/12 (D)	Serfas	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2023
GNA_2022_35	DOOR_2022_D68	DOOR_2022_246889	Bixby 12/4.16 (D)	Seventh St.	Capacity	Project to Facilitate Transformer Conversion	4 kV to 12 kV Conversion, Remove (13) 4 kV Transformers and Install New 12 kV Transformers on 12 kV Circuit	Primary Feeder - Overhead Conductor, Transformer	12/31/2022
GNA_2022_239	DOOR_2022_D94	DOOR_2022_322586	Passos 66/12 (D)	SHADE	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Construct Civil Projects, Install New Conductor	Primary Feeder - Overhead Conductor	6/1/2023
GNA_2022_229	DOOR_2022_D38	DOOR_2022_347545	Passos 66/12 (D)	SHADE	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Replace Cable, Install New Cable	Primary Feeder - Cable	6/1/2023
	DOOR_2022_D7	DOOR_2022_049557	Caripinteria 66/16 (D)	Sheffield	Capacity	Increase Circuit Capacity	Increase Conductor Size, Install (1) New Switch	Primary Feeder - Overhead Conductor, Switch	12/31/2023
GNA_2022_156	DOOR_2022_D71	DOOR_2022_246893	Lakewood 66/4.16 (D)	Shipway	Capacity	Project to Facilitate Transformer Conversion	4 kV to 12 kV Conversion, Remove (8) 4 kV Transformers and Install New 12 kV Transformers on 12 kV Circuit	Primary Feeder - Overhead Conductor, Transformer	12/31/2022
GNA_2022_300	DOOR_2022_D97	DOOR_2022_236084	Walnut 56/12 (D)	Shopper	Capacity (UCT)	Underground Cable Temperature Mitigation	Install New Cable	Primary Feeder - Cable	6/1/2023
GNA_2022_171	DOOR_2022_D174	DOOR_2022_443042	Limestone 66/12 (D)	Silver	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Construct Civil Projects, Increase Cable Size, Install New Cable	Primary Feeder - Cable	12/31/2023
GNA_2022_222	DOOR_2022_D19	DOOR_2022_136848	Palmdale 66/12 (D)	Sims	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2022
GNA_2022_222	DOOR_2022_D32	DOOR_2022_136848	Palmdale 66/12 (D)	Sims	Capacity (UCT)	Underground Cable Temperature Mitigation	Install (1) New Remote Control Switches	Primary Feeder - Switch	6/1/2023
GNA_2022_223	DOOR_2022_DV39	DOOR_2022_2023_DVAR Plan_14	Palmdale 66/12 (D)	Sims	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2022
GNA_2022_172	DOOR_2022_D175	DOOR_2022_443042	Limestone 66/12 (D)	Slate	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Increase Cable Size, Install New Cable	Primary Feeder - Cable	12/31/2023
GNA_2022_39	DOOR_2022_D316	DOOR_2022_8502_530023	Bloomington 66/12 (D)	Slower	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025
GNA_2022_54	DOOR_2022_D309	DOOR_2022_8495_277962	Bunker 115/12 (D)	Soldier	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Install New Cable	Primary Feeder - Cable	6/1/2022
GNA_2022_80	DOOR_2022_D225	DOOR_2022_8155_979295	Concho 115/12 (D)	Sombreno	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Increase Cable Size, Increase Cable Size, Install (5) New Report Automatic Reclosers	Primary Feeder - Cable, Switch	6/1/2022
GNA_2022_224	DOOR_2022_D20	DOOR_2022_136848	Palmdale 66/12 (D)	Spur	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	6/1/2022
GNA_2022_224	DOOR_2022_D24	DOOR_2022_136848	Palmdale 66/12 (D)	Spur	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install (1) New Switch	Primary Feeder - Switch	6/1/2022
GNA_2022_56	DOOR_2022_D143	DOOR_2022_237897	Cajalero 115/12 (D)	Starflow	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	New Remote Automatic Recloser	Primary Feeder - Cable, Overhead Conductor, Switch	9/1/2023
GNA_2022_209	DOOR_2022_D129	DOOR_2022_336801	Oasis 66/12 (D)	Steath	Capacity	Project to Facilitate Load Transfer	Construct Civil Projects, Install (2) New Remote Control Switches	Primary Feeder - Switch	12/31/2023
GNA_2022_174	DOOR_2022_D117	DOOR_2022_136775	Little Rock 66/12 (D)	San Village	Capacity	Increase Circuit Capacity, Project to Address Voltage Concern	Install (1) New Remote Automatic Recloser, Increase Circuit Capacity	Primary Feeder - Cable, Switch, Capacitor, Voltage Regulator	12/31/2023
GNA_2022_138	DOOR_2022_D12	DOOR_2022_064621	Hi Desert 12/4.16 (D)	Sanfilippo	Reliability, Capacity	Outage Contingency Mitigation, Increase Circuit Capacity	Install New Conductor	Primary Feeder - Overhead Conductor	6/1/2022
	DOOR_2022_D73	DOOR_2022_247182	Rivera 12/4.16 (D)	Sunglow	Capacity	Project to Facilitate Transformer Conversion	4 kV to 12 kV Conversion, Remove (16) 4 kV Transformers and Install 12 kV Transformers on 12 kV Circuit	Primary Feeder - Overhead Conductor, Transformer	6/1/2022
	DOOR_2022_D5	DOOR_2022_042489	Santa Monica 66/16 (D)	Suntower	Capacity (UCT)	Underground Cable Temperature Mitigation	Replace Cable	Primary Feeder - Cable	8/1/2022
GNA_2022_110	DOOR_2022_D198	DOOR_2022_7978_959298	Elizabeth Lake 66/16 (D)	Tambourine	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026
GNA_2022_253	DOOR_2022_D94	DOOR_2022_122586	Lancaster 66/16 (D)	Tamora	Capacity (UCT)	Underground Cable Temperature Mitigation	Increase Cable Size	Primary Feeder - Cable	12/31/2023
GNA_2022_163	DOOR_2022_D207	DOOR_2022_8101_036615	Lancaster 66/12 (D)	Target	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Reroute Circuit, Increase Cable Size	Primary Feeder - Cable	9/1/2022
GNA_2022_306	DOOR_2022_D48	DOOR_2022_123265	Woodruff 12/4.16 (D)	Ten Pin	Capacity	Increase Circuit Capacity	Increase Conductor Size	Primary Feeder - Overhead Conductor	12/31/2022
GNA_2022_246	DOOR_2022_DV48	DOOR_2022_2023_DVAR Plan_13	Rio Hondo 66/12 (D)	Thames	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2023
GNA_2022_27	DOOR_2022_D91	DOOR_2022_123266	Hi Desert 12/4.16 (D)	Thornhill	Capacity (UCT)	Underground Cable Temperature Mitigation, Project to Facilitate Load Transfer	Install New Cable, Install (1) New Switch, Install (1) New 1200 kVAR Capacitor, Construct Civil Projects	Primary Feeder - Cable, Switch, Capacitor	6/1/2022
GNA_2022_175	DOOR_2022_DV37	DOOR_2022_2023_DVAR Plan_12	Little Rock 66/12 (D)	Thornhill	Capacity (UCT)	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2023
GNA_2022_247	DOOR_2022_D153	DOOR_2022_4052_027588	Rio Hondo 66/12 (D)	Tigris	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Construct Civil Projects, Increase Cable Size, Install (4) New Remote Automatic Reclosers	Primary Feeder - Cable, Switch	6/1/2023
GNA_2022_193	DOOR_2022_D112	DOOR_2022_334569	Narod 66/12 (D)	Title	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Install New Cable, Reroute Circuit	Primary Feeder - Cable	6/1/2023
GNA_2022_264	DOOR_2022_D11	DOOR_2022_06328_459030	Saugus 66/16 (D)	Tips	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026
GNA_2022_264	DOOR_2022_D183	DOOR_2022_4800	Saugus 66/16 (D)	Tips	Capacity (UCT)	Underground Cable Temperature Mitigation, New Substation, New Circuit	Construct (1) New 66/16 kV Substation, Install (5) New 16 kV Circuits	Substation - New Substation, Primary Feeder - New Distribution Line	11/24/2027
GNA_2022_116	DOOR_2022_DV24	DOOR_2022_2022_DVAR Plan_27	Estero 66/16 (D)	Tiros	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	12/31/2022
GNA_2022_260	DOOR_2022_DV49	DOOR_2022_2023_DVAR Plan_25	Santiago 66/12 (D)	Toric	Reactive Power	Project to Address Reactive Power Concern, New Capacitor Installation	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	12/31/2023
GNA_2022_210	DOOR_2022_D130	DOOR_2022_241802	Oasis 66/12 (D)	Tomic	Capacity	Project to Facilitate Load Transfer	Construct Civil Projects, Increase Cable Size	Primary Feeder - Cable	12/31/2022
GNA_2022_186	DOOR_2022_D108	DOOR_2022_334557	Milliken 66/12 (D)	Tonal	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Increase Cable Size, Install New Cable	Primary Feeder - Cable	6/1/2023
GNA_2022_7	DOOR_2022_D80	DOOR_2022_173							

Deficiency (MW, MVAR or VPU)						Deficiency %						DER Eligible Service	LMDA Values	Residential Customer	Commercial Customer	Industrial Customer	Agricultural Customer	Other Customer	Notes	AACE Level of Cost Estimate	Project History
2022 ^a	2023 ^a	2024 ^a	2025 ^a	2026 ^a	Units	2022 ^a	2023 ^a	2024 ^a	2025 ^a	2026 ^a											
0.90	0.90	0.90	0.91	0.91	Vpu	90.33%	90.33%	90.33%	90.75%	90.75%	NO	15364.94 \$/Vpu-year	237	70	0	1	151	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
1.02	0.85	0.83	0.78	0.76	MW	10.16%	8.33%	8.12%	7.62%	7.42%	NO	791.43 \$/MW-year	1433	44	0	0	59	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.00	0.00	0.00	0.00	MVAR						NO	0 \$/MVAR-year	206	144	0	0	111	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.00	0.00	0.00	0.00	0.00	MVAR	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MVAR-year	125	49	0	0	55	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.00	0.00	0.00	0.00	0.00	MVAR						NO	0 \$/MVAR-year	0	22	0	0	12	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.01	0.03	0.03	0.03	0.03	MVAR	1.14%	5.09%	5.09%	5.09%	5.09%	NO	35444.2 \$/MVAR-year	815	0	0	0	28	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
0.00	0.00	0.00	0.00	0.00	MVAR						NO	0 \$/MVAR-year	501	73	0	0	66	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.00	0.00	1.97	1.97	1.97	MW	NO	87685.82 \$/MW-year	0	0	0	NO	87685.82 \$/MW-year	0	26	1	0	13	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.00	0.00	4.02	8.07	8.07	MW						NO	111293.76 \$/MW-year	0	73	0	0	13	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing		
0.00	0.00	0.00	0.00	0.00	MVAR						NO	0 \$/MVAR-year	0	26	1	0	13	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.00	0.22	0.20	0.15	0.13	MW	0.00%	2.38%	2.16%	1.62%	1.40%	NO	153735.06 \$/MW-year	708	191	0	0	156	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.00	0.00	0.00	0.00	MW						NO	47426.34 \$/MW-year	779	44	0	0	99	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.77	0.77	0.77	0.67	0.67	MW	26.28%	26.28%	26.28%	22.87%	22.87%	NO	117592.91 \$/MW-year	406	43	0	0	58	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing		
0.92	0.92	0.92	0.92	0.92	Vpu	91.67%	91.67%	91.67%	91.67%	91.67%	NO	28744.13 \$/Vpu-year	0	0	0	0	1	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.93	0.94	0.93	0.93	0.93	Vpu	93.33%	94.17%	92.50%	92.50%	92.50%	NO	1324000.42 \$/Vpu-year	684	142	1	0	273	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.00	0.00	0.00	0.00	0.00	MW						NO	60144.54 \$/MW-year	75	24	0	0	23	Cost estimate is generally equivalent to AACE Estimate Class 3	Existing		
1.96	2.39	2.28	2.39	2.28	MW	21.12%	26.61%	25.03%	26.67%	25.33%	NO	3240.93 \$/MW-year	79	163	1	0	79	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
1.11	1.11	1.11	1.11	1.11	MVAR	NO	977.64 \$/MVAR-year	0	0	0	NO	977.64 \$/MVAR-year	0	3	0	0	8	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.20	0.20	0.20	0.20	0.20	MW	8.33%	8.33%	8.33%	8.33%	8.33%	NO	703838.84 \$/MW-year	233	0	0	0	13	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.00	0.00	0.00	0.00	MW						YES	42479.3 \$/MW-year	511	81	0	0	69	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing		
3.13	3.13	3.13	3.13	3.13	MVAR						NO	11143.3 \$/MVAR-year	1	4	0	0	4	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
4.82	5.92	6.28	6.28	6.28	MW	40.46%	49.36%	51.89%	54.81%	56.82%	NO	7381.02 \$/MW-year	666	114	0	0	114	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.89	0.88	0.87	0.93	0.93	Vpu	89.17%	87.50%	86.67%	92.50%	93.33%	NO	406283.91 \$/Vpu-year	1343	53	0	2	140	Cost estimate is generally equivalent to AACE Estimate Class 3	Existing		
0.00	0.37	0.46	0.48	0.48	MW	0.00%	3.60%	4.50%	4.70%	4.70%	NO	436985.15 \$/MW-year	0	0	0	0	0	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
1.09	1.00	0.98	0.91	0.87	MW	12.53%	11.49%	11.26%	10.46%	10.00%	NO	13735.54 \$/MW-year	0	0	0	1	78	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
0.85	0.83	0.78	0.80	0.78	MW	8.54%	7.67%	7.78%	7.50%	7.31%	NO	153735.06 \$/MW-year	1206	191	0	0	109	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.23	0.23	0.17	0.17	0.11	MVAR	37.64%	37.64%	27.67%	27.67%	17.70%	NO	15079.06 \$/MVAR-year	620	190	8	0	95	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.07	0.07	0.07	0.07	0.07	MW	2.39%	2.39%	2.39%	2.39%	2.39%	NO	1256332.41 \$/MW-year	288	3	0	0	19	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
6.10	6.10	6.10	6.10	6.10	MW	58.65%	58.65%	57.69%	56.19%	55.24%	NO	1172.65 \$/MW-year	465	12	0	0	91	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
1.70	4.20	4.10	4.00	4.00	MW	21.79%	36.84%	35.96%	35.09%	35.09%	YES	74893.4 \$/MW-year	465	175	12	0	91	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
0.00	1.50	1.37	1.30	1.26	MW	0.00%	15.43%	13.98%	13.20%	12.77%	NO	4616.4 \$/MW-year	0	854	0	0	31	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.15	0.17	0.13	0.07	MW	0.00%	1.36%	1.55%	1.18%	0.63%	NO	37298.83 \$/MW-year	0	854	0	0	31	Cost estimate is generally equivalent to AACE Estimate Class 4	New		
2.35	2.35	2.37	2.37	2.37	MW	NO	61195.34 \$/MW-year	143	143	143	NO	61195.34 \$/MW-year	0	17	0	0	29	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing		
2.22	1.30	1.39	1.30	1.89	MW						NO	31212.18 \$/MW-year	0	13	2	0	13	Cost estimate is generally equivalent to AACE Estimate Class 3	New		
0.00	0.00	0.00	0.00	0.00	MW						NO	0 \$/MW-year	0	1	0	0	5	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
2.00	2.50	2.70	2.70	2.60	MW						NO	4925.9 \$/MW-year	63	28	1	0	23	Cost estimate is generally equivalent to AACE Estimate Class 3	Existing		
1.22	1.22	1.22	1.17	1.17	MVAR						NO	2390.7 \$/MVAR-year	0	20	2	0	14	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
0.00	0.00	0.00	0.00	0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MW-year	700	214	0	0	230	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
2.50	3.00	3.20	3.30	3.30	MW						NO	2471.98 \$/MW-year	997	54	0	0	122	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
1.09	1.57	1.76	1.83	1.85	MW						NO	4297.45 \$/MW-year	997	54	0	0	122	Cost estimate is generally equivalent to AACE Estimate Class 4	New		
0.20	0.20	0.20	0.20	0.20	MW	1.90%	1.90%	1.90%	1.90%	1.90%	NO	20820.33 \$/MW-year	617	33	0	0	96	Cost estimate is generally equivalent to AACE Estimate Class 3	New		
3.48	0.46	0.35	0.28	0.20	MW	31.75%	4.28%	3.25%	2.60%	1.86%	NO	34313.18 \$/MW-year	1596	118	0	0	250	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.54	0.65	0.76	0.87	MW						NO	20793.07 \$/MW-year	761	39	0	0	95	Cost estimate is generally equivalent to AACE Estimate Class 4	New		
0.41	0.63	0.59	0.54	0.59	MW	4.56%	0.54	0.59	0.54	0.59	NO	4566.32 \$/MW-year	274	16	0	0	16	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.00	0.00	0.00	0.00	MVAR	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MVAR-year	0	136	0	0	83	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing		
0.00	0.00	0.00	0.00	0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MW-year	1091	37	0	0	176	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.00	0.00	0.00	0.00	2.65	MW	0.00%	0.00%	0.00%	0.00%	YES	94820.71 \$/MW-year	0	823	19	0	69	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing		
0.15	0.13	0.13	0.14	0.14	MW	1.45%	1.25%	1.00%	0.67%	0.31%	NO	145321.49 \$/MW-year	0	357	0	0	121	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.61	0.54	0.52	0.50	0.59	MW						NO	28784.66 \$/MW-year	2	72	1	0	29	Cost estimate is generally equivalent to AACE Estimate Class 3	Existing		
0.10	0.10	0.10	0.10	0.10	MW	6.25%	6.25%	6.25%	6.25%	6.25%	NO	707369.2 \$/MW-year	138	29	0	0	45	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
1.50	0.36	0.00	0.00	0.00	MW	14.29%	2.59%	1.71%	0.85%	0.85%	NO	1256.15 \$/MW-year	438	1	0	0	191	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.30	0.20	0.20	0.10	0.10	MW	2.86%	1.90%	1.90%	0.94%	0.94%	NO	51803.23 \$/MW-year	0	404	5	0	169	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing		
0.00	0.00	0.00	0.00	0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	NO	0 \$/MW-year	174	0	0	3	169	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing		
0.10	0.10	0.10	0.10	0.10	MW	3.41%	3.41%	3.41%	3.41%	3.41%	NO	542887.01 \$/MW-year	230	5	0	0	14	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
1.40	1.30	1.20	1.10	1.00	MW	16.47%	15.29%	14.12%	12.94%	11.63%	NO	20820.33 \$/MW-year	214	67	1	0	57	Cost estimate is generally equivalent to AACE Estimate Class 3	New		
0.00	0.00	0.00	0.04	1.59	MW						NO	23823.73 \$/MW-year	25	325	0	0	20	Cost estimate is generally equivalent to AACE Estimate Class 4	New		
0.67	0.37	0.28	0.15	0.07	MW						NO	4616.4 \$/MW-year	1012	46	0	0	66	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
1.45	1.54	1.48	1.48	1.48	MW						NO	791.43 \$/MW-year	166	1012	66	0	66	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
1.38	1.32	1.26	1.20	1.14	MVAR						NO	2730.03 \$/MVAR-year	1012	46	0	0	66	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
0.00	0.20	7.26	8.93	9.46	MW	0.00%	2.10%	75.86%	92.92%	98.23%	NO	23823.73 \$/MW-year	1	27	0	0	30	Cost estimate is generally equivalent to AACE Estimate Class 4	New		
0.00	2.87	2.78	2.70	2.63	MW						YES	61195.36 \$/MW-year	559	93	2	0	100	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
0.22	0.33	0.00	0.00	0.00	MW	2.26%	3.40%	0.00%	0.00%	0.00%	NO	433.19 \$/MW-year	0	140	0	0	92	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.43	0.43	0.43	0.43	MW	0.43	3240.41 \$/MW-year	0	3240.41 \$/MW-year	0	NO	3240.41 \$/MW-year	0	364	58	0	58	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.76	0.72	0.67	0.63	MW	0.00%	7.68%	7.27%	6.75%	6.33%	NO	4616.4 \$/MW-year	0	1274	0	0	72	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	0.26	0.24	0.20	0.15	MW	0.00%	2.33%	2.15%	1.79%	1.34%	NO	791.43 \$/MW-year	0	1274	0	0	72	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing		
0.00	1.30	0.43	0.65	0.54	MW						NO	83924.74 \$/MW-year	1204	49	3	0	203	Cost estimate is generally equivalent to AACE Estimate Class 3	New		
0.85	0.78	0.70	0.63	0.59	MW	7.11%	6.52%	5.85%	5.27%	4.93%	NO	54532.44 \$/MW-year	1391	74	0	2	131	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
0.00	0.39	3.04	3.11	3.04	MW						NO	15900.51 \$/MW-year	735	45	0	0	115	Cost estimate is generally equivalent to AACE Estimate Class 5	New		
7.61	7.61	7.61	7.61	7.61	MW	127.05%	127.05%	127.05%	127.05%	127.05%	NO	53804.24 \$/MW-year	301	99	0	0	99	Cost estimate is generally equivalent to AACE Estimate Class 3	New		
0.00	0.00</																				

GNA ID	DDOR ID	DDOR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment To Be Installed	Operating Date
GNA_2022_178	DDOR_2022_D65	DDOR_2022_246885	Los Cerritos 12/4.16 (D)	Wardlow	Capacity	Project to Facilitate Load Transfer	Install (1) New Switch	Primary Feeder - Switch	6/1/2022
GNA_2022_151	DDOR_2022_D290	DDOR_2022_8464_434559	Kimball 66/12 (D)	Warhawk	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2024
	DDOR_2022_D33	DDOR_2022_151044	Oak Grove 66/12 (D)	Webb	Capacity (UCT)	Underground Cable Temperature Mitigation	Replace Aluminum Cable with Copper Cable	Primary Feeder - Cable	6/1/2023
GNA_2022_68	DDOR_2022_D164	DDOR_2022_434565	Chase 66/12 (D)	Weirick	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Increase Cable size, Install (1) New Switch	Primary Feeder - Cable, Switch	6/1/2024
GNA_2022_69	DDOR_2022_D158	DDOR_2022_4052_334082	Chase 66/12 (D)	Whisper	Capacity (UCT)	Underground Cable Temperature Mitigation	Construct Civil Projects, Install New Cable, Replace Cable, Install (1) New Switch	Primary Feeder - Cable, Switch	6/1/2023
GNA_2022_69	DDOR_2022_D165	DDOR_2022_434565	Chase 66/12 (D)	Whisper	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Increase Cable size, Install (1) New Switch	Primary Feeder - Cable, Switch	6/1/2024
GNA_2022_70	DDOR_2022_D166	DDOR_2022_434565	Chase 66/12 (D)	Wyle	Capacity (UCT)	Underground Cable Temperature Mitigation, Increase Circuit Capacity	Increase Cable size, Install (1) New Switch	Primary Feeder - Cable, Switch	6/1/2024
GNA_2022_70	DDOR_2022_D136	DDOR_2022_25934759_334554	Chase 66/12 (D)	Wyle	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025
GNA_2022_55	DDOR_2022_D194	DDOR_2022_7847_233219	Cabrillo 66/12 (D)	Xerox	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2023
End	End	End	End	End	End	End	End	End	End

Deficiency (MW, MVAR or VPU)						Deficiency %					DER Eligible Service	LNBA Values	Residential Customer	Commercial Customer	Industrial Customer	Agricultural Customer	Other Customer	Notes	AACE Level of Cost Estimate	Project History
2022 ^a	2023 ^a	2024 ^a	2025 ^a	2026 ^a	Units	2022 ^a	2023 ^a	2024 ^a	2025 ^a	2026 ^a										
0.10	0.20	0.10	0.10	0.10	MW	3.41%	6.83%	3.41%	3.41%	3.41%	NO	31375.17 \$/MW-year	35	45	0	0	30	Cost estimate is generally equivalent to AACE Estimate Class 1	Existing	
0.00	0.70	0.39	1.33	2.52	MW	0.00%	6.40%	3.33%	11.40%	22.10%	NO	50716.43 \$/MW-year	567	54	0	1	66	Cost estimate is generally equivalent to AACE Estimate Class 5	New	
0.00	0.00	0.00	0.00	0.00	MW						NO	0 \$/MW-year	436	26	0	0	74	Cost estimate is generally equivalent to AACE Estimate Class 3	Existing	
0.00	0.07	0.00	0.00	0.00	MW						NO	6629.49 \$/MW-year	495	142	1	0	88	Cost estimate is generally equivalent to AACE Estimate Class 4	New	
1.48	1.46	1.67	1.65	1.63	MW						NO	5935.75 \$/MW-year	32	52	2	0	32	Cost estimate is generally equivalent to AACE Estimate Class 3	Existing	
0.93	1.00	0.98	0.91	0.87	MW						NO	6629.49 \$/MW-year	32	52	2	0	32	Cost estimate is generally equivalent to AACE Estimate Class 4	New	
0.39	0.63	0.80	0.17	0.11	MW	3.52%	5.69%	7.23%	1.54%	0.99%	NO	6629.49 \$/MW-year	732	168	1	0	135	Cost estimate is generally equivalent to AACE Estimate Class 4	New	
0.00	0.15	0.28	0.52	0.80	MW	0.00%	1.30%	2.42%	4.48%	6.83%	YES	70643.88 \$/MW-year	732	168	1	0	135	Cost estimate is generally equivalent to AACE Estimate Class 5	New	
0.00	0.70	4.40	7.10	7.10	MW	0.00%	6.93%	43.56%	70.30%	70.30%	NO	35188.96 \$/MW-year	134	36	0	0	41	Cost estimate is generally equivalent to AACE Estimate Class 2	Existing	
End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End

GNA ID	DOOR ID	Tier	DOOR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment To Be Installed	Operating Date	Deficiency (MW, MVAR or VPU)												Units	2022 ¹	2023 ¹	2024 ¹
											2022 ²	2023 ²	2024 ²	2025 ²	2026 ²	2027 ²	2028 ²	2029 ²	2030 ²	2031 ²	2032 ²	2033 ²				
GNA_2022_205	DOOR_2022_526	1	DOOR_2022_8509	Saugus - Haskell 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2026	0.00	0.00	0.00	0.00	4.32	3.06	3.95	4.10	4.39	4.53 MW	0.00%	0.00%	0.00%			
GNA_2022_184	DOOR_2022_52	1	DOOR_2022_6055	Mesa Narrows 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2025	0.20	0.50	0.60	0.50	0.40	0.30	0.60	1.10	1.50	1.50 MW	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
GNA_2022_286	DOOR_2022_0329	1	DOOR_2022_05926358_688019	Triton 115/12 (D)	Seawolf	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026	0.00	0.00	0.00	0.00	0.00	2.65	3.72	3.67	3.65	3.63	3.61 MW	0.00%	0.00%	0.00%	0.00%	0.00%
GNA_2022_205	DOOR_2022_523	1	DOOR_2022_8425	Santa Clara - Colonia 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2026	0.00	0.00	0.00	0.00	3.20	9.50	9.70	9.70	9.60	9.50 MW	0.00%	0.00%	0.00%	0.00%	0.00%	
GNA_2022_141	DOOR_2022_0318	1	DOOR_2022_8511_543018	Irvine 66/12 (D)	Cadence	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	5/1/2025	0.00	0.00	0.00	0.65	0.65	0.63	0.85	1.13	1.17	1.50 MW	0.00%	0.00%	0.00%	0.00%	0.00%	
GNA_2022_142	DOOR_2022_0319	1	DOOR_2022_8511_543018	Irvine 66/12 (D)	Great Park	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	5/1/2025	0.00	0.00	0.00	0.00	0.22	0.17	0.17	1.57	1.70	1.83	1.93 MW					
GNA_2022_3	DOOR_2022_0296	1	DOOR_2022_8476	Alessandro 115/33 (D)	null	Capacity	Increase Substation Capacity	Install (1) 28 MVA Transformer	Substation - Transformer	6/1/2025	0.00	0.00	0.00	0.57	1.17	1.07	1.77	1.97	1.77	1.57	1.27 MW					
GNA_2022_45	DOOR_2022_0344	1	DOOR_2022_05935738_532018	Bulls 66/16 (D)	Coyler	Capacity	New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	0.00	0.00	2.80	2.60	2.60	2.50	2.50	2.50	2.50	2.50	2.50 MW	0.00%	0.00%	0.00%	0.00%	0.00%
GNA_2022_46	DOOR_2022_0345	1	DOOR_2022_05935738_532018	Bulls 66/16 (D)	null	Capacity	New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	0.00	0.00	2.10	1.60	1.10	0.70	0.60	0.40	0.20	0.80 MW	0.00%	0.00%	0.00%	0.00%	0.00%	
GNA_2022_241	DOOR_2022_56	1	DOOR_2022_6871	Rector-Riverway 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, New Line	Substation - New Subtransmission Line	Substation - New Subtransmission Line	6/1/2026	14.05	16.65	17.35	17.45	17.45	17.35	17.55	18.05	18.45	18.75 MW	9.91%	11.75%	12.24%			
GNA_2022_112	DOOR_2022_55	1	DOOR_2022_6698	Elizabeth Lake-Richgen 66 kV	null	Reliability, Capacity	Outage Contingency Mitigation, Increase Line Capacity	Increase Conductor Size	Substation - Subtransmission Conductor	6/1/2026	0.00	0.00	0.00	0.00	1.36	5.39	8.69	10.76	13.04	13.25 MW	0.00%	0.00%	0.00%	0.00%	0.00%	
GNA_2022_109	DOOR_2022_0196	2	DOOR_2022_7978_8559298	Elizabeth Lake 66/16 (D)	Guitar	Capacity	New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026	0.00	0.00	0.00	0.07	1.68	3.45	4.13	4.10	4.07	4.04 MW						
GNA_2022_108	DOOR_2022_0197	2	DOOR_2022_7978_8559298	Elizabeth Lake 66/16 (D)	Obore	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57 MW						
GNA_2022_110	DOOR_2022_0198	2	DOOR_2022_7978_8559298	Elizabeth Lake 66/16 (D)	Tambourine	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026	0.00	0.00	0.00	1.52	1.55	1.58	1.48	1.23	0.00	0.00 MW	0.00%	0.00%	0.00%	0.00%	0.00%	
GNA_2022_104	DOOR_2022_0342	2	DOOR_2022_05935666	North Oaks 66/16 (D)	null	Capacity	Increase Substation Capacity	Upgrade (2) Substation Transformers	Substation - Transformer	6/1/2026	6.55	9.64	11.42	13.03	14.00	19.25	19.60	20.09	20.64	21.12 MW	5.60%	8.25%	9.77%			
GNA_2022_142	DOOR_2022_529	2	DOOR_2022_8068	Browning 66/12 (D)	null	Reliability, Voltage	Outage Contingency Mitigation, Project to Address Voltage Concern, New Line	Install (1) New 66 kV Subtransmission Line	Substation - New Subtransmission Line	6/1/2025	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95 Vpu	94.70%	94.55%	94.55%			
GNA_2022_218	DOOR_2022_0310	2	DOOR_2022_8068	Quinn 66/12 (D)	null	Reliability, Voltage	Outage Contingency Mitigation, Project to Address Voltage Concern, New Line	Install (1) New 66 kV Subtransmission Line	Substation - New Subtransmission Line	6/1/2025	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93 Vpu	93.18%	93.03%	93.03%			
GNA_2022_189	DOOR_2022_0301	2	DOOR_2022_8481	Mira Loma 66/12 (D)	null	Capacity	Increase Substation Capacity	Install (1) 28 MVA Transformer	Substation - Transformer	6/1/2025	0.00	0.52	1.57	3.04	3.50	4.35	5.65	6.78	7.96	8.39 MW	0.00%	0.71%	2.16%			
GNA_2022_36	DOOR_2022_0313	2	DOOR_2022_8502_330023	Bloomington 66/12 (D)	Bombay	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	0.00	0.11	0.04	0.02	0.00	0.00	0.04	0.00	0.00	0.20 MW	0.00%	1.21%	0.44%			
GNA_2022_37	DOOR_2022_0314	2	DOOR_2022_8502_330023	Bloomington 66/12 (D)	Fatcat	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	0.21	0.20	0.17	0.11	0.02	0.00	0.00	0.00	0.00	0.00 MW	2.35%	2.11%	0.79%			
GNA_2022_38	DOOR_2022_0315	2	DOOR_2022_8502_330023	Bloomington 66/12 (D)	Redball	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	2.35	2.35	2.39	2.48	2.37	2.26	2.39	2.76	3.13	3.00 MW						
GNA_2022_39	DOOR_2022_0316	2	DOOR_2022_8502_330023	Bloomington 66/12 (D)	Slover	Capacity	New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	0.00	0.87	2.78	2.70	2.63	2.57	2.52	2.50	2.50	2.46 MW						
GNA_2022_67	DOOR_2022_0385	2	DOOR_2022_05934759_314554	Chase 66/12 (D)	Palace	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	1.39	1.54	1.65	1.85	2.11	2.28	2.35	2.30	2.26 MW	13.50%	14.91%	15.97%				
GNA_2022_70	DOOR_2022_0386	2	DOOR_2022_05934759_314554	Chase 66/12 (D)	Wyle	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	0.00	0.15	0.28	0.52	0.80	1.09	1.20	1.20	1.17	1.16 MW	0.00%	1.30%	2.42%			
GNA_2022_59	DOOR_2022_0229	2	DOOR_2022_8256	Calcity 'A' 33/12 (D)	null	Capacity	New Substation, New Subtransmission Line	Construct (1) New 115/12 kV Substation, install (2) New 115kV Subtransmission Lines	Substation - New Substation, New Subtransmission Line	5/1/2028	6.00	6.00	5.90	5.90	5.80	5.80	5.80	5.90	6.00	6.00 MW	55.76%	42.13%	41.43%			
GNA_2022_58	DOOR_2022_0230	2	DOOR_2022_8256	Calcity 'A' 33/12 (D)	Greasewood	Capacity	New Substation, New Subtransmission Line	Construct (1) New 115/12 kV Substation, install (2) New 115kV Subtransmission Lines	Substation - New Substation, New Subtransmission Line	5/1/2028	3.30	6.00	5.90	5.90	5.90	5.90	5.90	5.90	5.90	6.00 MW	39.76%	72.29%	71.08%			
GNA_2022_60	DOOR_2022_0231	2	DOOR_2022_8256	Calcity 'B' 33/12 (D)	null	Capacity	New Substation, New Subtransmission Line	Construct (1) New 115/12 kV Substation, install (2) New 115kV Subtransmission Lines	Substation - New Substation, New Subtransmission Line	5/1/2028	0.00	3.10	26.60	48.00	71.20	71.20	71.20	71.20	71.20	71.20 MW	0.00%	17.03%	146.15%			
GNA_2022_61	DOOR_2022_0232	2	DOOR_2022_8256	Calcity 'B' 33/12 (D)	Overall	Capacity	New Substation, New Subtransmission Line	Construct (1) New 115/12 kV Substation, install (2) New 115kV Subtransmission Lines	Substation - New Substation, New Subtransmission Line	5/1/2028	0.00	1.70	25.20	46.50	69.60	69.70	69.70	69.70	69.70	69.70 MW	0.00%	14.17%	210.00%			
DOOR_2022_0182	2	DOOR_2022_4800	Saugus 66/16 (D)	null	Capacity	New Substation, New Circuit	Construct (1) New 66/16 kV Substation, install (5) New 16 kV Circuits	Substation - New Substation, Primary Feeder - New Distribution Line	11/24/2027	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	16.31	32.93	49.10 MW	0.00%	0.00%	0.00%			
GNA_2022_264	DOOR_2022_0183	2	DOOR_2022_4800	Saugus 66/16 (D)	Tips	Capacity (UCT)	Underground Cable Temperature Mitigation, New Substation, New Circuit	Construct (1) New 66/16 kV Substation, install (5) New 16 kV Circuits	Substation - New Substation, Primary Feeder - New Distribution Line	11/24/2027	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.42	32.92	50.08 MW	0.00%	0.00%	0.00%		
GNA_2022_294	DOOR_2022_53	3	DOOR_2022_6992	Valley EFC 500/115 (S)	null	Capacity	New Substation, New Subtransmission Line	Construct (1) New 500/115 kV Substation, install New 115kV Subtransmission Lines	Substation - New Substation, New Subtransmission Line	6/29/2029	205.30	218.60	225.00	228.10	237.40	245.70	256.40	265.40	275.40	286.30 MW	22.91%	24.40%	25.11%			
GNA_2022_74	DOOR_2022_0255	3	DOOR_2022_8325_339553	Colonia 66/16 (D)	Beardsley	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	0.00	0.00	0.00	4.41	5.29	8.78	8.72	8.72	8.69	8.69 MW	0.00%	0.00%	0.00%			
GNA_2022_75	DOOR_2022_0256	3	DOOR_2022_8325_339553	Colonia 66/16 (D)	Broome	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	0.00	0.00	0.00	0.90	3.60	8.00	8.00	8.00	8.00	7.90 MW	0.00%	0.00%	0.00%			
GNA_2022_278	DOOR_2022_0346	1	DOOR_2022_05937417	Sunnyside 66/12 (D)	null	Capacity	Increase Substation Capacity	Replace Disconnect Switch	Substation - Switch	6/1/2026	0.00	0.00	0.00	0.00	0.01	0.30	0.60	0.80	1.00	1.00 MW	0.00%	0.00%	0.00%			
GNA_2022_263	DOOR_2022_09	3	DOOR_2022_06128_459030	Saugus 66/16 (D)	Crabtree	Capacity	New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026	0.00	0.00	0.00	0.00	1.90	7.06	3.89	3.89	3.89	3.89 MW	0.00%	0.00%	0.00%			
DOOR_2022_010	3	DOOR_2022_06128_459030	Saugus 66/16 (D)	Placerte	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.28 MW						
GNA_2022_264	DOOR_2022_011	3	DOOR_2022_06128_459030	Saugus 66/16 (D)	Tips	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 16 kV Circuit	Primary Feeder - New Distribution Line	6/1/2026	0.00	0.00	0.00	0.00	4.14	9.18	5.85	10.47	9.44	7.92 MW	0.00%	0.00%	0.00%			
GNA_2022_280	DOOR_2022_0317	1	DOOR_2022_8505_429067	Talbert 66/12 (D)	Raven	Capacity (UCT)	Underground Cable Temperature Mitigation, New Circuit	Install (1) New 12 kV Circuit	Primary Feeder - New Distribution Line	6/1/2025	1.70	4.20	4.10	4.00	4.00	3.90	4.00	4.20	4.40	4.60 MW	21.79%	36.84%	35.96%			
GNA_2022_288	DOOR_2022_0293	3	DOOR_2022_																							

Deficiency %							DER Eligible Service	Cost Effectiveness			Forecast Certainty				Duration	Capacity Needs per Affected Asset	Operational Requirements	Number of Grid Needs	Notes	AACE Level of Cost Estimate	Project History			
2025*	2026*	2027*	2028*	2029*	2030*	2031*		LNBA Value (\$/MW-yr)	LNBA Value (\$/MWh-yr)	LNBA Value (\$/MWh-Day)	Unit Cost of Traditional Mitigation	Grid Need Certainty	Year of Need											
0.00%	3.48%	2.47%	3.19%	3.11%	3.54%	3.65%	YES	\$	173,726.39	\$	5,719.39	\$	85,790.81	\$	7,238,868.08	20.70	2026	3 Hours	0.4 MW/Circuit	DA	Presented as DDOIR_2022_TSP STL35672 in SCE's 9/2/2022 DDOIR			
0.54%	0.43%	0.32%	0.65%	1.18%	1.61%	1.61%	YES	\$	360,648.45	\$	13,871.09	\$	208,066.42	\$	6,076,986.10	7.11	2022	3 Hours	0.14 MW/Circuit	DA	1	Candidate Deferral Project List	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing
0.00%	22.16%	31.10%	30.69%	30.52%	30.35%	30.18%	YES	\$	94,820.72	\$	521.79	\$	20,871.78	\$	3,705,664.09	20.00	2026	8 Hours	3.72 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
0.00%	3.86%	11.45%	11.69%	11.69%	11.57%	11.45%	YES	\$	111,251.62	\$	64.32	\$	12,361.51	\$	25,357,157.63	19.04	2026	14 Hours	2.74 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
5.43%	5.43%	5.27%	7.11%	9.40%	11.45%	12.54%	YES	\$	100,329.29	\$	932.60	\$	22,346.07	\$	3,787,464.07	16.00	2025	9 Hours	1.93 MW/Circuit	DA	2		Cost estimate is generally equivalent to AACE Estimate Class 5	New
							YES	\$	100,329.29	\$	932.60	\$	22,346.07	\$	3,787,464.07	16.00	2025	9 Hours	1.93 MW/Circuit	DA	2		Cost estimate is generally equivalent to AACE Estimate Class 5	New
18.57%	18.57%	17.86%	17.86%	17.86%	17.86%	17.86%	YES	\$	61,140.04	\$	1,638.72	\$	24,580.79	\$	1,488,136.58	12.36	2024	3 Hours	0.16 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 5	New
							YES	\$	2,367.62	\$	23,667.62	\$	35,514.78	\$	5,628,574.00	10.76	2024	2.8 Hours	2.8 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 5	New
1.94%	1.34%	0.85%	0.73%	0.49%	0.24%	0.97%	YES	\$	196,697.26	\$	2,367.65	\$	35,514.78	\$	5,628,574.00	10.76	2024	30 Hours	2.8 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 5	New
12.31%	12.31%	12.24%	12.38%	12.73%	13.02%	13.23%	YES	\$	150,194.22	\$	446.59	\$	24,507.22	\$	31,992,756.40	13.68	2022	12 Hours	3 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 3	Existing
0.00%	1.64%	6.49%	10.47%	12.96%	15.71%	15.96%	YES	\$	80,100.34	\$	518.57	\$	18,150.03	\$	12,866,356.63	12.92	2026	8 Hours	1.89 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
							YES	\$	113,856.27	\$	227.54	\$	18,203.25	\$	6,672,596.75	15.54	2025	13 Hours	4.13 MW/Circuit	DA	3		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
							YES	\$	113,856.27	\$	227.54	\$	18,203.25	\$	6,672,596.75	15.54	2025	13 Hours	4.13 MW/Circuit	DA	3		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
10.30%	10.52%	10.74%	10.05%	8.20%	0.00%	0.00%	YES	\$	113,856.27	\$	227.54	\$	18,203.25	\$	6,672,596.75	15.54	2025	13 Hours	4.13 MW/Circuit	DA	3		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
11.14%	11.97%	16.47%	16.77%	17.18%	17.65%	18.07%	YES	\$	14,054.19	\$	106.39	\$	2,768.88	\$	3,667,334.09	14.13	2022	8 Hours	1.92 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 5	New
94.70%	94.70%	94.70%	94.70%	94.55%	94.55%	94.55%	YES	\$	52,363.10	\$	41.00	\$	4,304.51	\$	5,261,111.23	18.18	2022	24 Hours	2.13 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 2	New
93.03%	93.03%	93.18%	93.18%	93.18%	93.03%	92.88%	YES	\$	52,363.10	\$	41.00	\$	4,304.51	\$	5,261,111.23	18.18	2022	24 Hours	2.13 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 2	New
4.18%	4.81%	5.98%	7.76%	9.32%	10.94%	11.53%	YES	\$	32,349.77	\$	626.10	\$	3,353.38	\$	3,667,334.09	9.11	2022	6 Hours	1.05 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 5	New
0.22%	0.00%	0.00%	0.44%	0.00%	0.00%	2.18%	YES	\$	61,195.36	\$	249.18	\$	10,960.94	\$	3,812,077.00	10.76	2022	11 Hours	3.13 MW/Circuit	DA	4		Cost estimate is generally equivalent to AACE Estimate Class 5	New
1.16%	0.21%	0.00%	0.00%	0.00%	0.00%	0.00%	YES	\$	61,195.36	\$	249.18	\$	10,960.94	\$	3,812,077.00	10.76	2022	11 Hours	3.13 MW/Circuit	DA	4		Cost estimate is generally equivalent to AACE Estimate Class 5	New
							YES	\$	61,195.36	\$	249.18	\$	10,960.94	\$	3,812,077.00	10.76	2022	11 Hours	3.13 MW/Circuit	DA	4		Cost estimate is generally equivalent to AACE Estimate Class 5	New
17.91%	20.43%	22.03%	22.71%	22.75%	22.77%	21.88%	YES	\$	70,643.89	\$	73.35	\$	9,021.07	\$	2,781,835.84	10.76	2022	18 Hours	2.35 MW/Circuit	DA	2		Cost estimate is generally equivalent to AACE Estimate Class 5	New
4.48%	6.88%	9.37%	10.32%	10.32%	10.90%	10.94%	YES	\$	70,643.89	\$	73.35	\$	9,021.07	\$	2,781,835.84	10.76	2022	18 Hours	2.35 MW/Circuit	DA	2		Cost estimate is generally equivalent to AACE Estimate Class 5	New
							YES	\$	61,195.36	\$	249.18	\$	10,960.94	\$	3,812,077.00	10.76	2022	11 Hours	3.13 MW/Circuit	DA	4		Cost estimate is generally equivalent to AACE Estimate Class 5	New
41.43%	40.73%	40.73%	40.73%	41.43%	42.13%	42.13%	YES	\$	415,801.84	\$	71.20	\$	24,764.56	\$	333,440,462.00	10.76	2022	24 Hours	69.7 MW/Circuit	DA	4	CAISO: N/A CPUC: Anticipate PTC filing 2023, estimate approval 2025. SCE: Licensing activities authorized internally in 2029.	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing
71.08%	71.08%	71.08%	71.08%	71.08%	71.08%	72.29%	YES	\$	415,801.84	\$	71.20	\$	24,764.56	\$	333,440,462.00	10.76	2022	24 Hours	69.7 MW/Circuit	DA	4	CAISO: N/A CPUC: Anticipate PTC filing 2023, estimate approval 2025. SCE: Licensing activities authorized internally in 2029.	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing
263.74%	391.21%	391.21%	391.21%	391.21%	391.21%	391.21%	YES	\$	415,801.84	\$	71.20	\$	24,764.56	\$	333,440,462.00	10.76	2022	24 Hours	69.7 MW/Circuit	DA	4	CAISO: N/A CPUC: Anticipate PTC filing 2023, estimate approval 2025. SCE: Licensing activities authorized internally in 2029.	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing
387.50%	580.00%	580.83%	580.83%	580.83%	580.83%	580.83%	YES	\$	415,801.84	\$	71.20	\$	24,764.56	\$	333,440,462.00	10.76	2022	24 Hours	69.7 MW/Circuit	DA	4	CAISO: N/A CPUC: Anticipate PTC filing 2023, estimate approval 2025. SCE: Licensing activities authorized internally in 2029.	Cost estimate is generally equivalent to AACE Estimate Class 4	Existing
0.00%	0.00%	0.00%	0.83%	11.29%	22.78%	33.97%	YES	\$	189,659.88	\$	43.50	\$	15,667.32	\$	135,267,724.00	11.80	2028	24 Hours	50.08 MW/Circuit	DA	2	CAISO: N/A CPUC: Addendum to the developers Environmental Impact Report (AEIR) being discussed, SCE may determine project is exempt from GO 131-Q and file an Advice Letter in 2023.	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
0.00%	0.00%	0.00%	0.00%	96.21%	205.39%	312.40%	YES	\$	189,659.88	\$	43.50	\$	15,667.32	\$	135,267,724.00	11.80	2028	24 Hours	50.08 MW/Circuit	DA	2	CAISO: N/A CPUC: Addendum to the developers Environmental Impact Report (AEIR) being discussed, SCE may determine project is exempt from GO 131-Q and file an Advice Letter in 2023.	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
25.46%	26.50%	27.42%	28.62%	29.62%	30.74%	31.95%	YES	\$	192,383.17	\$	770.58	\$	34,676.97	\$	524,715,979.00	10.76	2022	9 Hours	1.82 MW/Circuit	DA	1	CAISO: N/A CPUC: Estimated approval mid 2024	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
29.70%	35.70%	58.89%	58.37%	58.37%	58.00%	58.00%	YES	\$	20,230.69	\$	3.36	\$	1,226.68	\$	3,787,614.22	19.71	2025	24 Hours	8.78 MW/Circuit	DA	2	SCE: Approval for 3rd amended filing 2022	Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
6.21%	25.09%	57.89%	57.89%	59.21%	58.14%	57.41%	YES	\$	20,230.69	\$	3.36	\$	1,226.68	\$	3,787,614.22	19.71	2025	24 Hours	8.78 MW/Circuit	DA	2		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
0.00%	0.01%	0.41%	0.81%	1.08%	1.35%	1.35%	YES	\$	10,841.34	\$	362.25	\$	5,431.77	\$	126,640.39	7.71	2026	2 Hours	0.1 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
0.00%	11.72%	13.67%	24.07%	24.07%	24.07%	24.07%	YES	\$	42,479.31	\$	19.27	\$	5,091.44	\$	7,201,583.88	11.80	2026	18 Hours	10.47 MW/Circuit	DA	3		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
							YES	\$	42,479.31	\$	19.27	\$	5,091.44	\$	7,201,583.88	11.80	2026	18 Hours	10.47 MW/Circuit	DA	3		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
0.00%	52.13%	109.55%	66.77%	116.71%	101.95%	81.63%	YES	\$	42,479.31	\$	19.27	\$	5,091.44	\$	7,201,583.88	11.80	2026	18 Hours	10.47 MW/Circuit	DA	3		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
35.09%	35.09%	34.21%	35.09%	36.64%	38.60%	40.15%	YES	\$	74,893.40	\$	14.11	\$	3,791,640.00	\$	5,157.33	10.76	2022	22 Hours	4.4 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 5	New
1.92%	16.26%	10.95%	13.86%	17.69%	21.37%	25.11%	YES	\$	28,128.98	\$	134.85	\$	6,611.87	\$	5,030,979.00	6.48	2025	10 Hours	5.43 MW/Circuit	DA	3		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
0.00%	13.29%	31.27%	38.38%	38.38%	44.73%	45.40%	YES	\$	28,128.98	\$	134.85	\$	6,611.87	\$	5,030,979.00	6.48	2025	10 Hours	5.43 MW/Circuit	DA	3		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
1.20%	6.30%	4.96%	11.01%	12.39%	14.46%	16.00%	YES	\$	28,128.98	\$	134.85	\$	6,611.87	\$	5,030,979.00	6.48	2025	10 Hours	5.43 MW/Circuit	DA	3		Cost estimate is generally equivalent to AACE Estimate Class 5	Existing
0.00%	59.53%	56.96%	79.43%	103.90%	126.17%	133.06%	YES	\$	2,135.58	\$	0.38	\$	137.34	\$	1,555,391.13	13.02	2026	24 Hours	17.5 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 5	New
							YES	\$	72,989.33	\$	20.89	\$	5,981.07	\$	3,791,648.87	2.92	2022	21 Hours	4.72 MW/Circuit	DA	1		Cost estimate is generally equivalent to AACE Estimate Class 5	New
End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End		

GNA ID	DDOR ID	Tier	DDOR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Operating Date	Unit Cost of Traditional Mitigation	LNBA Value (\$/MW-yr)	Contingency Plan	Capacity (MW)	Energy Need (MWh)	Hour of Day	Duration	Time of Year	Monthly Frequency	Yearly Frequency	Year											
GNA_2022_112	DDOR_2022_S5	1	DDOR_2022_6698	Elizabeth Lake 66/16 (D)	null	Reliability, Capacity	6/1/2026	\$ 12,466,765.63	\$ 90,750.14	\$ 1,870,014.84	20.00	117.70	13-22	10	Summer	23	50	2030											
											21.00	128.70	12-23	12	Summer	24	55	2031											
											0.00	0.00	0	0	N/A	0	0	2022											
											0.00	0.00	0	0	N/A	0	0	2023											
											0.00	0.00	0	0	N/A	0	0	2024											
											0.00	0.00	0	0	N/A	0	0	2025											
											1.70	3.50	15-17	3	Summer	5	15	2026											
											5.60	18.20	14-19	6	Summer	5	15	2027											
											8.80	34.60	13-19	7	Summer	12	30	2028											
											10.80	49.80	14-20	7	Summer	9	25	2029											
											13.00	64.30	13-20	8	Summer	15	30	2030											
											13.20	66.00	13-20	8	Summer	15	35	2031											
											GNA_2022_109	DDOR_2022_D196	2	DDOR_2022_7978_959298	Elizabeth Lake 66/16 (D)	Guitar	Capacity	6/1/2026	\$ 6,672,596.75	\$ 113,856.27	\$ 1,000,889.51	0.00	0.00	0	0	N/A	0	0	2022
0.00	0.00	0	0	N/A	0	0	2023																						
0.00	0.00	0	0	N/A	0	0	2024																						
0.07	0.10	13	1	Summer	5	15	2025																						
1.68	8.60	12-18	7	Summer	20	50	2026																						
3.45	22.20	11-21	11	Summer	31	80	2027																						
4.13	29.70	11-22	12	Summer	31	90	2028																						
4.10	29.90	11-22	12	Summer	31	85	2029																						
4.07	30.70	10-22	13	Summer	31	90	2030																						
4.04	29.50	11-22	12	Summer	31	90	2031																						
	DDOR_2022_D197	2	DDOR_2022_7978_959298	Elizabeth Lake 66/16 (D)	Oboe	Capacity (UCT)	6/1/2026	\$ 6,672,596.75	\$ 113,856.27	\$ 1,000,889.51												0.00	0.00	0	0	N/A	0	0	2022
																						0.00	0.00	0	0	N/A	0	0	2023
																						0.00	0.00	0	0	N/A	0	0	2024
											0.00	0.00	0	0	N/A	0	0	2025											
											0.00	0.00	0	0	N/A	0	0	2026											
											0.00	0.00	0	0	N/A	0	0	2027											
											0.00	0.00	0	0	N/A	0	0	2028											
											0.00	0.00	0	0	N/A	0	0	2029											
											0.00	0.00	0	0	N/A	0	0	2030											
											0.57	1.40	13-16	4	Summer	5	15	2031											
											GNA_2022_110	DDOR_2022_D198	2	DDOR_2022_7978_959298	Elizabeth Lake 66/16 (D)	Tambourine	Capacity (UCT)	6/1/2026	\$ 6,672,596.75	\$ 113,856.27	\$ 1,000,889.51	0.00	0.00	0	0	N/A	0	0	2022
																						0.00	0.00	0	0	N/A	0	0	2023
																						0.00	0.00	0	0	N/A	0	0	2024
1.52	5.00	14-18	5	Summer	5	15	2025																						
1.55	4.60	14-18	5	Summer	5	15	2026																						
1.58	5.30	14-18	5	Summer	5	15	2027																						
1.48	5.40	14-18	5	Summer	11	25	2028																						
1.22	3.10	14-17	4	Summer	5	15	2029																						
0.00	0.00	0	0	N/A	0	0	2030																						
0.00	0.00	0	0	N/A	0	0	2031																						
GNA_2022_204	DDOR_2022_D342	2	DDOR_2022_DSP35666	North Oaks 66/16 (D)	null	Capacity	6/1/2025	\$ 3,667,334.09	\$ 14,054.19	\$ 550,100.11												6.55	18.20	15-19	5	Summer	5	15	2022
																						9.64	30.80	14-18	5	Summer	5	15	2023
																						11.42	41.90	15-19	5	Summer	5	15	2024
											13.03	51.50	15-20	6	Summer	5	15	2025											
											14.00	50.90	15-19	5	Summer	6	15	2026											
											19.25	82.60	14-20	7	Summer	8	15	2027											
											19.60	93.00	14-20	7	Summer	12	30	2028											
											20.09	88.20	14-20	7	Summer	6	15	2029											
											20.64	102.80	14-21	8	Summer	5	15	2030											
											21.12	107.20	14-21	8	Summer	5	15	2031											
											GNA_2022_238	DDOR_2022_S10	2	DDOR_2022_8068	Quinn 66/12 (D)	null	Reliability, Voltage	6/1/2025	\$ 5,261,111.23	\$ 52,363.10	\$ 789,166.68	6.60	75.40	1-4, 6-24	23	Spring, Summer	31	85	2022
																						7.60	82.60	1-24	24	Spring, Summer	31	90	2023
																						8.10	93.70	1-24	24	Spring, Summer	31	95	2024
7.90	86.30	1-24	24	Spring, Summer	31	95	2025																						
7.80	90.60	1-24	24	Spring, Summer	31	95	2026																						
7.50	99.50	1-24	24	Spring, Summer	31	100	2027																						
7.60	90.50	1-24	24	Spring, Summer	31	95	2028																						
7.90	98.50	1-24	24	Spring, Summer	31	100	2029																						
8.20	103.40	1-24	24	Spring, Summer	31	105	2030																						
8.50	96.50	1-17, 19-24	23	Spring, Summer	31	105	2031																						
GNA_2022_189	DDOR_2022_D301	2	DDOR_2022_8481	Mira Loma 66/12 (D)	null	Capacity	6/1/2025	\$ 3,353,389.66	\$ 32,349.77	\$ 503,008.45												0.00	0.00	0	0	N/A	0	0	2022
																						0.52	0.70	16-17	2	Summer	5	15	2023
																						1.57	2.60	16-17	2	Summer	5	15	2024
											3.04	6.20	15-18	4	Summer	5	15	2025											
											3.50	9.00	15-18	4	Summer	5	15	2026											
											4.35	12.70	15-18	4	Summer	5	15	2027											
											5.65	16.30	15-18	4	Summer	5	15	2028											
											6.78	21.10	15-19	5	Summer	7	15	2029											
											7.96	25.80	15-19	5	Summer	8	15	2030											
											8.39	28.90	14-19	6	Summer	7	15	2031											
											GNA_2022_36	DDOR_2022_D313	2	DDOR_2022_8502_530023	Bloomington 66/12 (D)	Bombay	Capacity (UCT)	6/1/2025	\$ 3,812,077.00	\$ 61,195.36	\$ 571,811.55	0.00	0.00	0	0	N/A	0	0	2022
																						0.11	0.10	12-14	3	Summer	5	15	2023
																						0.04	0.00	12	1	Summer	5	15	2024
0.02	0.00	12	1	Summer	5	15	2025																						
0.00	0.00	0	0	N/A	0	0	2026																						
0.00	0.00	0	0	N/A	0	0	2027																						
0.04	0.00	12	1	Summer	5	15	2028																						
0.00	0.00	0	0	N/A	0	0	2029																						
0.00	0.00	0	0	N/A	0	0	2030																						
0.20	0.40	12-14	3	Summer	5	15	2031																						
GNA_2022_37	DDOR_2022_D314	2	DDOR_2022_8502_530023	Bloomington 66/12 (D)	Flatcar	Capacity (UCT)	6/1/2025	\$ 3,812,077.00	\$ 61,195.36	\$ 571,811.55												0.22	0.40	15-16	2	Summer	5	15	2022
																						0.20	0.40	15-16	2	Summer	5	15	2023
																						0.17	0.20	15-16	2	Summer	5	15	2024
											0.11	0.20	15-16	2	Summer	5	15	2025											
											0.02	0.00	15	1	Summer	5	15	2026											
											0.00	0.00	0	0	N/A	0	0	2027											

GNA ID	DDOR ID	Tier	DDOR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Operating Date	Unit Cost of Traditional Mitigation	LNBA Value (\$/MW-yr)	Contingency Plan	Capacity (MW)	Energy Need (MWh)	Hour of Day	Duration	Time of Year	Monthly Frequency	Yearly Frequency	Year
GNA_2022_38	DDOR_2022_D315	2	DDOR_2022_8502_530023	Bloomington 66/12 (D)	Redball	Capacity (UCT)	6/1/2025	\$ 3,812,077.00	\$ 61,195.36	\$ 571,811.55	0.00	0.00	0	0	N/A	0	0	2028
											0.00	0.00	0	0	N/A	0	0	2029
											0.00	0.00	0	0	N/A	0	0	2030
											0.00	0.00	0	0	N/A	0	0	2031
											2.35	12.70	12-19	8	Summer	17	45	2022
											2.35	12.90	12-20	9	Summer	15	40	2023
											2.39	13.30	12-20	9	Summer	16	45	2024
											2.48	14.30	12-20	9	Summer	19	45	2025
											2.37	13.60	11-19	9	Summer	21	45	2026
											2.26	13.60	12-20	9	Summer	20	50	2027
GNA_2022_39	DDOR_2022_D316	2	DDOR_2022_8502_530023	Bloomington 66/12 (D)	Slover	Capacity	6/1/2025	\$ 3,812,077.00	\$ 61,195.36	\$ 571,811.55	2.39	13.70	12-20	9	Summer	14	35	2028
											2.76	17.10	12-21	10	Summer	17	45	2029
											3.13	20.00	11-21	11	Summer	19	55	2030
											3.00	19.00	11-21	11	Summer	20	50	2031
											0.00	0.00	0	0	N/A	0	0	2022
											2.87	13.80	13-20	8	Summer	13	35	2023
											2.78	13.00	13-20	8	Summer	11	30	2024
											2.70	12.70	13-21	9	Summer	11	25	2025
											2.63	14.40	12-21	10	Summer	13	35	2026
											2.57	14.20	12-21	10	Summer	14	35	2027
GNA_2022_67	DDOR_2022_D335	2	DDOR_2022_DSP34759_334554	Chase 66/12 (D)	Palace	Capacity (UCT)	6/1/2025	\$ 2,781,835.84	\$ 70,643.89	\$ 417,275.38	2.52	11.80	13-21	9	Summer	10	30	2028
											2.50	12.00	13-21	9	Summer	10	25	2029
											2.50	11.60	13-21	9	Summer	11	25	2030
											2.46	12.00	13-21	9	Summer	11	25	2031
											1.39	6.00	9, 12-18	8	Summer	16	40	2022
											1.54	7.60	9-18	10	Summer	17	50	2023
											1.65	9.60	8-19	12	Spring, Summer	20	55	2024
											1.85	13.80	8-21	14	Spring, Summer	21	70	2025
											2.11	18.30	7-22	16	Spring, Summer	22	95	2026
											2.28	19.80	7-22	16	Spring, Summer	22	95	2027
GNA_2022_70	DDOR_2022_D336	2	DDOR_2022_DSP34759_334554	Chase 66/12 (D)	Wyle	Capacity (UCT)	6/1/2025	\$ 2,781,835.84	\$ 70,643.89	\$ 417,275.38	2.35	21.70	6-22	17	Year Round	23	110	2028
											2.35	22.60	7-22	16	Spring, Summer	23	125	2029
											2.30	21.80	6-22	17	Spring, Summer	23	115	2030
											2.26	23.50	6-23	18	Year Round	23	140	2031
											0.00	0.00	0	0	N/A	0	0	2022
											0.15	0.20	16-17	2	Summer	6	15	2023
											0.28	0.50	16-17	2	Summer	8	15	2024
											0.52	0.90	16-17	2	Summer	7	20	2025
											0.80	2.10	15-18	4	Summer	9	20	2026
											1.09	3.30	14-18	5	Summer	12	25	2027
GNA_2022_59	DDOR_2022_D229	2	DDOR_2022_8256	Calcity 'A' 33/12 (D)	null	Capacity	5/1/2028	\$ 333,440,462.00	\$ 415,801.84	\$ 50,016,069.30	1.20	3.80	14-19	6	Summer	9	25	2028
											1.20	3.90	14-19	6	Summer	9	25	2029
											1.17	3.80	14-19	6	Summer	9	25	2030
											1.26	4.30	14-19	6	Summer	10	30	2031
											2.91	32.90	9-23	15	Spring, Summer	31	95	2022
											0.22	0.50	11, 13-14	3	Summer	5	15	2023
											0.20	0.70	10-14	5	Summer	5	15	2024
											0.20	0.40	10-14	5	Summer	5	15	2025
											0.12	0.20	10-11	2	Summer	5	15	2026
											0.13	0.20	10-11	2	Summer	5	15	2027
GNA_2022_58	DDOR_2022_D230	2	DDOR_2022_8256	Calcity 'A' 33/12 (D)	Greasewood	Capacity	5/1/2028	\$ 333,440,462.00	\$ 415,801.84	\$ 50,016,069.30	0.00	0.00	0	0	N/A	0	0	2028
											0.22	0.40	10-12	3	Summer	5	15	2029
											0.31	1.00	10-17	8	Summer	5	15	2030
											0.25	0.40	10-11	2	Summer	5	15	2031
											3.30	27.50	11-22	12	Summer	29	80	2022
											6.00	61.10	9-24	16	Spring, Summer	31	110	2023
											5.90	57.50	9-23	15	Spring, Summer	31	105	2024
											5.90	57.60	9-23	15	Spring, Summer	31	105	2025
											5.90	57.70	9-23	15	Spring, Summer	31	105	2026
											5.90	58.00	9-23	15	Spring, Summer	31	105	2027
GNA_2022_60	DDOR_2022_D231	2	DDOR_2022_8256	Calcity 'B' 33/12 (D)	null	Capacity	5/1/2028	\$ 333,440,462.00	\$ 415,801.84	\$ 50,016,069.30	5.90	60.10	9-24	16	Spring, Summer	31	105	2028
											5.90	58.10	9-24	16	Spring, Summer	31	105	2029
											5.90	58.30	9-24	16	Spring, Summer	31	105	2030
											6.00	59.50	9-24	16	Spring, Summer	31	105	2031
											0.00	0.00	0	0	N/A	0	0	2022
											2.01	13.00	13-20	8	Summer	7	15	2023
											2.48	14.90	10-21	12	Summer	5	15	2024
											3.42	18.30	10-21	12	Summer	5	15	2025
											4.43	22.30	10-21	12	Year Round	7	20	2026
											4.32	21.40	10-21	12	Year Round	7	20	2027
GNA_2022_61	DDOR_2022_D232	2	DDOR_2022_8256	Calcity 'B' 33/12 (D)	Overall	Capacity	5/1/2028	\$ 333,440,462.00	\$ 415,801.84	\$ 50,016,069.30	5.14	36.10	12-21	10	Year Round	16	55	2028
											4.32	21.50	10-21	12	Spring, Summer	8	15	2029
											4.31	21.70	10-21	12	Spring, Summer	8	15	2030
											4.31	21.90	10-21	12	Spring, Summer	7	15	2031
											0.00	0.00	0	0	N/A	0	0	2022
											1.70	9.00	12-20	9	Summer	5	15	2023
											25.20	412.10	1-24	24	Year Round	31	365	2024
											46.50	815.90	1-24	24	Year Round	31	365	2025
											69.60	1255.40	1-24	24	Year Round	31	365	2026
											69.70	1260.60	1-24	24	Year Round	31	365	2027
	DDOR_2022_D182	2	DDOR_2022_4800	Saugus 66/16 (D)	null	Capacity	11/24/2027	\$ 135,267,724.00	\$ 189,659.88	\$ 20,290,158.60	69.70	1252.00	1-24	24	Year Round	31	365	2028
											69.70	1267.50	1-24	24	Year Round	31	365	2029
											69.70	1270.80	1-24	24	Year Round	31	365	2030
											69.70	1273.90	1-24	24	Year Round	31	365	2031
											0.00	0.00	0	0	N/A	0	0	2022
											0.00	0.00	0	0	N/A	0	0	2023
											0.00	0.00	0	0	N/A	0	0	2024
											0.00	0.00	0	0	N/A	0	0	2025

GNA ID	DDOR ID	Tier	DDOR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Operating Date	Unit Cost of Traditional Mitigation	LNBA Value (\$/MW-yr)	Contingency Plan	Capacity (MW)	Energy Need (MWh)	Hour of Day	Duration	Time of Year	Monthly Frequency	Yearly Frequency	Year											
											0.00	0.00	0	0	N/A	0	0	2026											
											0.00	0.00	0	0	N/A	0	0	2027											
											1.22	2.20	16-17	2	Summer	5	15	2028											
											6.72	18.00	14-17	4	Summer	5	15	2029											
											5.21	12.90	15-18	4	Summer	5	15	2030											
											5.22	9.30	15-17	3	Summer	5	15	2031											
											GNA_2022_264	DDOR_2022_D183	2	DDOR_2022_4800	Saugus 66/16 (D)	Tips	Capacity (UCT)	11/24/2027	\$ 135,267,724.00	\$ 189,659.88	\$ 20,290,158.60	0.00	0.00	0	0	N/A	0	0	2022
											0.00	0.00	0	0	N/A	0	0	2023											
											0.00	0.00	0	0	N/A	0	0	2024											
											0.00	0.00	0	0	N/A	0	0	2025											
											0.00	0.00	0	0	N/A	0	0	2026											
											0.00	0.00	0	0	N/A	0	0	2027											
											0.00	0.00	0	0	N/A	0	0	2028											
											15.42	142.10	1, 11-24	15	Year Round	31	255	2029											
											32.92	394.90	1-24	24	Year Round	31	365	2030											
											50.08	660.10	1-24	24	Year Round	31	365	2031											
											GNA_2022_294	DDOR_2022_S3	3	DDOR_2022_6092	Valley 'EFG' 500/115 (S)	null	Capacity	6/29/2029	\$ 524,719,579.00	\$ 192,383.17	\$ 78,707,936.85	205.30	869.50	13-19	7	Summer	15	40	2022
																						218.60	964.90	13-19	7	Summer	16	40	2023
225.00	1123.90	13-20	8	Summer	12	30	2024																						
228.10	1134.40	13-20	8	Summer	13	30	2025																						
237.40	1190.20	13-21	9	Summer	11	35	2026																						
245.70	1269.70	13-21	9	Summer	14	35	2027																						
256.40	1135.80	14-20	7	Summer	21	50	2028																						
265.40	1424.60	13-21	9	Summer	17	40	2029																						
275.40	1504.40	13-21	9	Summer	19	45	2030																						
286.30	1588.40	13-21	9	Summer	19	45	2031																						
GNA_2022_74	DDOR_2022_D255	3	DDOR_2022_8325_339553	Colonia 66/16 (D)	Beardsley	Capacity (UCT)	6/1/2025	\$ 3,787,614.22	\$ 20,230.69	\$ 568,142.13												0.00	0.00	0	0	N/A	0	0	2022
																						0.00	0.00	0	0	N/A	0	0	2023
											0.00	0.00	0	0	N/A	0	0	2024											
											4.41	54.90	1-2, 5-24	22	Year Round	31	360	2025											
											5.29	71.60	1-24	24	Year Round	31	365	2026											
											8.78	141.00	1-24	24	Year Round	31	365	2027											
											8.72	143.30	1-24	24	Year Round	31	365	2028											
											8.72	139.10	1-24	24	Year Round	31	365	2029											
											8.69	151.30	1-24	24	Year Round	31	365	2030											
											8.69	145.60	1-24	24	Year Round	31	365	2031											
											GNA_2022_75	DDOR_2022_D256	3	DDOR_2022_8325_339553	Colonia 66/16 (D)	Broome	Capacity (UCT)	6/1/2025	\$ 3,787,614.22	\$ 20,230.69	\$ 568,142.13	0.00	0.00	0	0	N/A	0	0	2022
																						0.00	0.00	0	0	N/A	0	0	2023
0.00	0.00	0	0	N/A	0	0	2024																						
0.90	4.10	11-17	7	Summer	15	40	2025																						
3.60	38.50	7-24	18	Year Round	31	330	2026																						
8.00	126.10	1-24	24	Year Round	31	365	2027																						
8.00	119.40	1-24	24	Year Round	31	365	2028																						
8.10	130.50	1-24	24	Year Round	31	365	2029																						
8.00	126.10	1-24	24	Year Round	31	365	2030																						
7.90	124.00	1-24	24	Year Round	31	365	2031																						
GNA_2022_278	DDOR_2022_D346	3	DDOR_2022_DSP35747	Sunnyside 66/12 (D)	null	Capacity	6/1/2026	\$ 126,640.39	\$ 10,843.34	\$ 18,996.06												0.00	0.00	0	0	N/A	0	0	2022
																						0.00	0.00	0	0	N/A	0	0	2023
											0.00	0.00	0	0	N/A	0	0	2024											
											0.00	0.00	0	0	N/A	0	0	2025											
											0.01	0.00	18	1	Summer	5	15	2026											
											0.30	0.30	18	1	Summer	5	15	2027											
											0.60	0.60	18	1	Summer	5	15	2028											
											0.80	0.80	17-18	2	Summer	5	15	2029											
											1.00	1.60	17-18	2	Summer	5	15	2030											
											1.00	1.60	17-18	2	Summer	5	15	2031											
											GNA_2022_263	DDOR_2022_D9	3	DDOR_2022_06328_459030	Saugus 66/16 (D)	Crabtree	Capacity	6/1/2026	\$ 7,201,583.88	\$ 42,479.31	\$ 1,080,237.58	0.00	0.00	0	0	N/A	0	0	2022
																						0.00	0.00	0	0	N/A	0	0	2023
0.00	0.00	0	0	N/A	0	0	2024																						
0.00	0.00	0	0	N/A	0	0	2025																						
1.90	6.20	15-19	5	Summer	5	15	2026																						
7.06	45.50	13-23	11	Summer	31	75	2027																						
3.89	19.30	14-21	8	Summer	29	65	2028																						
3.89	18.60	14-22	9	Summer	29	60	2029																						
3.89	20.50	14-21	8	Summer	27	55	2030																						
3.89	18.30	14-21	8	Summer	24	50	2031																						
	DDOR_2022_D10	3	DDOR_2022_06328_459030	Saugus 66/16 (D)	Placerita	Capacity (UCT)	6/1/2026	\$ 7,201,583.88	\$ 42,479.31	\$ 1,080,237.58												0.00	0.00	0	0	N/A	0	0	2022
																						0.00	0.00	0	0	N/A	0	0	2023
											0.00	0.00	0	0	N/A	0	0	2024											
											0.00	0.00	0	0	N/A	0	0	2025											
											0.00	0.00	0	0	N/A	0	0	2026											
											0.00	0.00	0	0	N/A	0	0	2027											
											0.00	0.00	0	0	N/A	0	0	2028											
											0.00	0.00	0	0	N/A	0	0	2029											
											0.09	0.10	17	1	Summer	5	15	2030											
											0.28	0.30	16-17	2	Summer	5	15	2031											
											GNA_2022_264	DDOR_2022_D11	3	DDOR_2022_06328_459030	Saugus 66/16 (D)	Tips	Capacity (UCT)	6/1/2026	\$ 7,201,583.88	\$ 42,479.31	\$ 1,080,237.58	0.00	0.00	0	0	N/A	0	0	2022
																						0.00	0.00	0	0	N/A	0	0	2023
0.00	0.00	0	0	N/A	0	0	2024																						
0.00	0.00	0	0	N/A	0	0	2025																						
0.00	0.00	0	0	N/A	0	0	2026																						
4.14	32.90	11-24	14	Year Round	31	245	2026																						
9.18	90.00	1-2, 9-24	18	Year Round	31	360	2027																						
5.85	49.40	11-24	14	Year Round	31	210	2028																						
10.47	103.30	1-2, 10-24	17	Year Round	31	330	2029																						
9.44	87.40	1, 11-24	15	Year Round	31	245	2030																						
7.92	66.90	11-24	14	Year Round	31	140	2031																						
GNA_2022_280	DDOR_2022_D317	3	DDOR_2022_8505_429067	Talbert 66/12 (D)	Raven	Capacity (UCT)	6/1/2025	\$ 3,791,649.00	\$ 74,893.40	\$ 568,747.35												1.70	16.70	7-23	17	Year Round	31	225	2022
											4.20	57.60	1, 6-24	20	Year Round	31	360	2023											

GNA ID	DDOR ID	Tier	DDOR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Operating Date	Unit Cost of Traditional Mitigation	LNBA Value (\$/MW-yr)	Contingency Plan	Capacity (MW)	Energy Need (MWh)	Hour of Day	Duration	Time of Year	Monthly Frequency	Yearly Frequency	Year
											4.10	49.20	6-24	19	Year Round	31	355	2024
											4.00	50.80	1, 6-24	20	Year Round	31	350	2025
											4.00	52.90	1, 6-24	20	Year Round	31	350	2026
											3.90	51.10	1-2, 6-24	21	Year Round	31	355	2027
											4.00	55.50	1-2, 6-24	21	Year Round	31	360	2028
											4.20	55.50	1, 6-24	20	Year Round	31	355	2029
											4.40	59.70	1-2, 5-24	22	Year Round	31	360	2030
											4.60	66.80	1-2, 5-24	22	Year Round	31	365	2031
											0.00	0.00	0	0	N/A	0	0	2022
											0.00	0.00	0	0	N/A	0	0	2023
GNA_2022_288	DDOR_2022_D293	3	DDOR_2022_8469_577046	Valley 115/12 (D)	Ethanac	Capacity (UCT)	6/1/2025	\$ 5,030,979.00	\$ 28,128.98	\$ 754,646.85	0.00	0.00	0	0	N/A	0	0	2024
											0.00	0.00	0	0	N/A	0	0	2024
											0.22	0.30	17-18	2	Summer	5	15	2025
											1.85	6.50	15-20	6	Summer	12	25	2026
											1.30	3.80	15-19	5	Summer	8	15	2027
											1.63	5.20	15-19	5	Summer	7	15	2028
											2.07	7.40	15-19	5	Summer	10	20	2029
											2.50	11.00	15-21	7	Summer	13	30	2030
											2.93	13.10	15-21	7	Summer	13	30	2031
											0.00	0.00	0	0	N/A	0	0	2022
											0.00	0.00	0	0	N/A	0	0	2023
GNA_2022_289	DDOR_2022_D294	3	DDOR_2022_8469_577046	Valley 115/12 (D)	Jerry	Capacity	6/1/2025	\$ 5,030,979.00	\$ 28,128.98	\$ 754,646.85	0.00	0.00	0	0	N/A	0	0	2024
											0.00	0.00	0	0	N/A	0	0	2025
											1.59	5.60	15-20	6	Summer	13	30	2026
											3.74	18.40	14-21	8	Summer	30	65	2027
											4.59	26.30	14-22	9	Summer	31	70	2028
											4.59	25.10	14-22	9	Summer	31	65	2029
											5.35	32.70	13-22	10	Summer	31	80	2030
											5.43	31.90	13-22	10	Summer	31	80	2031
											0.00	0.00	0	0	N/A	0	0	2022
											0.00	0.00	0	0	N/A	0	0	2023
											0.00	0.00	0	0	N/A	0	0	2024
GNA_2022_292	DDOR_2022_D295	3	DDOR_2022_8469_577046	Valley 115/12 (D)	null	Capacity	6/1/2025	\$ 5,030,979.00	\$ 28,128.98	\$ 754,646.85	0.99	1.00	17	1	Summer	5	15	2025
											4.14	8.30	15-17	3	Summer	6	15	2026
											3.88	10.20	15-18	4	Summer	7	15	2027
											4.62	10.70	16-19	4	Summer	5	15	2028
											6.21	17.10	16-19	4	Summer	5	15	2029
											6.37	17.30	16-19	4	Summer	5	15	2030
											7.32	21.70	16-19	4	Summer	5	15	2031
											0.00	0.00	0	0	N/A	0	0	2022
											0.00	0.00	0	0	N/A	0	0	2023
											0.00	0.00	0	0	N/A	0	0	2024
											70.00	1026.50	1-24	24	Year Round	31	365	2026
GNA_2022_101	DDOR_2022_S35	3	DDOR_2022_TSP STV35570	Devers 220/115 (S)	null	Reactive Power	6/1/2026	\$ 1,555,391.13	\$ 2,135.98	\$ 233,308.67	70.00	991.80	1-24	24	Year Round	31	365	2027
											70.00	1003.90	1-24	24	Year Round	31	365	2028
											70.00	1012.80	1-24	24	Year Round	31	365	2029
											70.00	1088.70	1-24	24	Year Round	31	365	2030
											70.00	1016.70	1-24	24	Year Round	31	365	2031
											0.62	2.20	12-16	5	Summer	9	25	2022
											1.32	6.60	11-18	8	Summer	17	50	2023
											4.72	53.70	1, 6-24	20	Year Round	30	290	2024
											4.72	53.00	1, 6-24	20	Year Round	31	290	2025
											4.67	55.40	1, 6-24	20	Year Round	31	290	2026
											4.62	55.90	1-2, 6-24	21	Year Round	31	295	2027
GNA_2022_31	DDOR_2022_D343	3	DDOR_2022_DSP35713_430018	Bain 66/12 (D)	Heftler	Capacity	6/1/2025	\$ 3,791,648.87	\$ 72,989.33	\$ 568,747.33	4.58	55.20	1, 6-24	20	Year Round	31	290	2028
											4.53	54.10	1, 6-24	20	Year Round	31	290	2029
											4.48	56.00	1-2, 6-24	21	Year Round	31	285	2030
											4.41	57.60	1, 6-24	20	Year Round	31	285	2031
End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End	End

Attachment E

Joint Prioritization Metrics Workbook

Glossary

Note:

- 1) This worksheet is only applicable where the utility has three or more candidate deferral projects, and
- 2) in the event the utility has one or two candidate deferral projects, the utility will a) develop a recommendation as to the tiering of the projects along with the rationale, and b) review this recommendation with the DPAG.

Step	Column Name	Description
Raw Data	Project ID	The project identifier.
	Project Description	A brief description of the project scope.
	LNBA (\$/MW-yr)	Calculated using the Commission approved LNBA methodology, based on the peak capacity need during the deferral period.
	LNBA (\$/MWh-yr)	Calculated using the Commission approved LNBA methodology, based on the maximum annual energy need during the deferral period.
	LNBA (\$/MWh-day) (Info Only)	Calculated using the Commission approved LNBA methodology, based on the maximum peak day energy need during the deferral period.
	Unit Cost of Traditional Mitigation (\$)	Cost of the traditional mitigation project designed to meet the maximum capacity need for each project.
	Grid Need Certainty	The IOU-specific, maximum grid need certainty score of all the assets associated with a project. (e.g. for SCE this is the Location of Certainty matrix score of the project's load growth drivers weighted by the size of the load growth).
	Operating Date (Info Only)	The expected operating date of a candidate deferral project.
	Year of Need	The earliest starting year among all assets associated with a project.
	Year of Need Indicator	Year of need indicator based on the possible range of all the years of need for this cycle of DDF (i.e. between 2020 and 2029).
	Duration (Hours)	The maximum number of hours that DER is needed in a peak day, during the deferral period, to meet the need that the project mitigates.
	Capacity Need (MW)	The maximum capacity need mitigated by the project during the deferral period.
	Circuits	The number of circuits that DER can be interconnected to which will meet the need that the project mitigates.
	Capacity Need (MW)/Circuit	The maximum capacity need per number of circuits to which DERs can connect and meet the grid need.
Step 1: Normalize Raw Data	Operational Requirement	The operational requirement of the need.
	Number of Grid Needs	The number of grid needs that the project mitigates.
	LNBA (\$/MW-yr)	The "LNBA (\$/MW-yr)" value is normalized between 0 and 1, based on the range of the "LNBA (\$/MW-yr)" values of all the candidate deferral projects.
	LNBA (\$/MWh-yr)	The "LNBA (\$/MWh-yr)" value is normalized between 0 and 1, based on the range of the "LNBA (\$/MWh-yr)" values of all the candidate deferral projects.
	Unit Cost of Traditional Mitigation (\$)	
	Grid Need Certainty	The "Grid Need Certainty" value is normalized between 0 and 1 based on the range of the "Grid Need Certainty" values of all the candidate deferral projects.
	Year of Need	
	Duration (Hours)	The "Duration (Hours)" value is normalized between 0 and 1, based on the range of the "Duration (Hours)" values of all the candidate deferral projects. The shorter the duration, the higher the normalized Duration value.
Step 2: Apply Red Flags	Capacity Need (MW)/Circuit	The "Capacity Need (MW)/Circuit" value is normalized between 0 and 1 based on the range of the "Capacity Need (MW)/Circuit" values among all the candidate deferral projects. The smaller the capacity needs per circuit, the higher chance for a feasible DER solution, the higher the normalized Capacity Needs/Circuit value.
	Operational Requirement	
	Number of Grid Needs	
	LNBA (\$/MW-yr)	
	LNBA (\$/MWh-yr)	
	Unit Cost of Traditional Mitigation (\$)	If the "Unit Cost of Traditional Mitigation (\$)" for a project is below the respective threshold, it will be Red Flagged and relegated to Tier 3.
	Grid Need Certainty	
	Year of Need	If the "Year of Need" for a project is above the respective threshold, it will be Red Flagged and relegated to Tier 3.
Step 3: Determine Quantitative Metric Scores	Duration (Hours)	
	Capacity Need (MW)/Circuit	
	Operational Requirement	
	Number of Grid Needs	
	Cost Effectiveness	The sum of normalized "LNBA/MW-yr" and normalized "LNBA/MWh-yr" values.
	Scaled Forecast Certainty	The normalized "Grid Need Certainty" score scaled up to match the range of the other metrics.
	Market Assessment	The sum of normalized "Duration (Hours)" and normalized "Capacity Need (MW)/Circuit" values.
	Cost Effectiveness	Cost Effectiveness scores in descending order (i.e. the highest score ranks 1)
Step 4: Rank Quantitative Metric Scores	Scaled Forecast Certainty	Forecast Certainty scores in descending order (i.e. the highest score ranks 1)
	Market Assessment	Market Assessment scores in descending order (i.e. the highest score ranks 1)
	Cost Effectiveness	
Step 5: Assign RAG Scores	Scaled Forecast Certainty	The Red Amber Green (RAG) score of the Cost Effectiveness rankings. Projects ranked in the Bottom Quartile are assigned a RAG score of -1, projects ranked in the Top Quartile are assigned a RAG score of +1, all other projects are assigned a RAG score of 0.
	Market Assessment	The RAG score of the Forecast Certainty rankings. Projects ranked in the Bottom Quartile are assigned a RAG score of -1, projects ranked in the Top Quartile are assigned a RAG score of +1, all other projects are assigned a RAG score of 0.
	Final RAG Score	The RAG score of the Market Assessment rankings. Projects ranked in the Bottom Quartile are assigned a RAG score of -1, projects ranked in the Top Quartile are assigned a RAG score of +1, all other projects are assigned a RAG score of 0.
	Final Score	The sum of the RAG scores across the three metrics. Projects with Red Flags are automatically binned into Tier 3.
Step 6: Determine Final Score and Ranking	Final Score	The sum of the Cost Effectiveness, Forecast Certainty, and Market Assessment scores.
	Final Ranking	Final Score in descending order (i.e. the highest score ranks 1).
	Final Tiering	The tiered recommendation. Red Flagged projects and projects with a <0 RAG score are in Tier 3, projects with a >0 RAG score are in Tier 1, and projects with a RAG score = 0 are in Tier 2.
	Approval Status	Per Reform 37 of the 2020 May Ruling, information about the approval status of Pre-Application and Post-Application projects in the GNA/DDOR.

Prioritization Metrics Template

Template Inputs						
	Cost Effectiveness			Forecast Certainty		Duration (Hours)
	LNBA (\$/MW-yr)	LNBA (\$/MW-yr)	Unit Cost of Traditional Mitigation (\$)	Grid Need Certainty	Year of Need	
DIDF Baseline Year					2022	
Max value for normalization	415,801.84	13,871.09		20.70		24.00
Min value for normalization	2,135.98	0.38		2.92		2.00
Flag threshold						
Top quartile threshold		7			6	
Bottom quartile threshold		19.5			18	

Raw Data								
Project ID	Project Description	LNBA (\$/MW-yr)	LNBA (\$/MW-yr)	LNBA (\$/MW-day) (Info only)	Unit Cost of Traditional Mitigation (\$)	Grid Need Certainty	Operating Date (Info Only)	
DDOR_2022_8509	Rebuild Saugus-Haskell 66 kV Subtransmission Line	\$ 173,726.39	\$ 5,719.39	\$ 85,790.81	\$ 7,228,868.08	20.70		2026
DDOR_2022_6055	Rebuild Mesa-Narrows 66 kV Subtransmission Line	\$ 360,648.45	\$ 13,871.09	\$ 208,066.42	\$ 6,076,986.10	7.11		2025
DDOR_2022_DSP26358_688019	Install a New 12kV Circuit at Triton 115/12 kV Substation	\$ 94,820.72	\$ 521.79	\$ 20,871.78	\$ 3,705,664.09	20.00		2026
DDOR_2022_8476	Install a New Transformer at Alessandro 115/33 kV Substation	\$ 61,140.04	\$ 1,638.72	\$ 24,580.79	\$ 1,488,136.58	12.36		2025
DDOR_2022_8425	Rebuild Santa Clara-Colonia 66 kV Subtransmission Line	\$ 111,253.62	\$ 64.32	\$ 12,361.51	\$ 25,357,157.63	19.04		2026
DDOR_2022_6871	Install Rector-Riverway No. 2 66 kV Subtransmission Line	\$ 150,194.22	\$ 445.59	\$ 24,507.22	\$ 31,992,756.40	13.68		2026
DDOR_2022_DSP35666	Upgrade Transformers at North Oaks 66/16 kV Substation	\$ 14,054.19	\$ 106.39	\$ 2,768.88	\$ 3,667,334.09	14.13		2025
DDOR_2022_8325_339553	Construct a New 16 kV Circuit at Gonzales 66/16 kV Substation	\$ 20,230.69	\$ 3.36	\$ 1,226.68	\$ 3,787,614.22	19.71		2025
DDOR_2022_6698	Rebuild Elizabeth Lake-Pitchgen 66 kV Subtransmission Line	\$ 90,750.14	\$ 518.57	\$ 18,150.03	\$ 12,466,765.63	12.82		2026
DDOR_2022_6092	Alberhill System Project: Construct a New 500/115 kV Substation and associated 500 kV source lines and 115 kV lines	\$ 192,383.17	\$ 770.58	\$ 34,675.97	\$ 524,719,579.00	10.76		2029
DDOR_2022_8481	Install a New Transformer at Mira Loma 66/12 kV Substation	\$ 32,349.77	\$ 626.10	\$ 9,391.51	\$ 3,353,389.66	9.11		2025
DDOR_2022_DSP34759_334554	Install a New 12kV Circuit at Chase 66/12 kV Substation	\$ 70,643.89	\$ 73.35	\$ 9,021.07	\$ 2,781,835.84	10.76		2025
DDOR_2022_TSP STV35570	Install a New Capacitor at Devers 220/115 kV Substation	\$ 2,135.98	\$ 0.38	\$ 137.34	\$ 1,555,391.13	13.02		2026
DDOR_2022_8469_577046	Upgrade Transformer and Construct a New 12kV Circuit at Valley 115/12 kV Substation	\$ 28,128.98	\$ 134.85	\$ 6,611.87	\$ 5,030,979.00	6.48		2025
DDOR_2022_8256	Cal City Project: Construct a New 115/12 kV Substation and Construct New 115 kV Subtransmission Lines	\$ 415,801.84	\$ 71.20	\$ 24,764.56	\$ 333,440,462.00	10.76		2028
DDOR_2022_4800	Del Valle Project: Construct a New 66/16 kV Substation and Construct New 16 kV Circuits	\$ 189,659.88	\$ 43.50	\$ 15,667.32	\$ 135,267,724.00	11.80		2027
DDOR_2022_DSP35713_430018	Install a New 12 kV Circuit at Bain 66/12 kV Substation	\$ 72,989.33	\$ 20.89	\$ 5,981.07	\$ 3,791,648.87	2.92		2025
DDOR_2022_8511_543018	Install a New 12 kV Circuit at Irvine 66/12 kV Substation	\$ 100,329.29	\$ 932.60	\$ 22,346.07	\$ 3,787,464.60	16.00		2025
DDOR_2022_8502_530023	Install a New 12 kV Circuit at Bloomington 66/12 kV Substation	\$ 61,195.36	\$ 249.18	\$ 10,960.94	\$ 3,812,077.00	10.76		2025
DDOR_2022_DSP35738_532018	Install a New 16 kV Circuit at Bullis 66/16 kV Substation	\$ 196,697.26	\$ 2,367.65	\$ 35,514.78	\$ 5,628,574.00	10.76		2025
DDOR_2022_DSP35747	Increase Sunnyside 66/12 kV Substation by Eliminating Limiting Components	\$ 10,843.34	\$ 362.25	\$ 5,433.77	\$ 126,640.39	7.71		2026
DDOR_2022_8505_429067	Install a New 12 kV Circuit at Talbert 66/12 kV Substation	\$ 74,893.40	\$ 14.13	\$ 5,157.33	\$ 3,791,649.00	10.76		2025
DDOR_2022_8068	Reconfigure Browning - Delano 66 kV Subtransmission Line	\$ 52,363.10	\$ 41.00	\$ 4,304.51	\$ 5,261,111.23	18.18		2025
DDOR_2022_06328_459030	Install a New 16 kV Circuit at Saugus 66/16 kV Substation	\$ 42,479.31	\$ 19.27	\$ 5,093.44	\$ 7,201,583.88	11.80		2026
DDOR_2022_7978_959298	Install a New 16 kV Circuit at Elizabeth Lake 66/16 kV Substation	\$ 113,856.27	\$ 227.54	\$ 18,203.25	\$ 6,672,596.75	15.54		2026
DDOR_2022_6030	Valley-Ivyglen Project: Construct a new 115 kV subtransmission line							

Market Assessment		
Capacity Need (MW)/Circuit	Operational Requirement	Number of Grid Needs
69.70		
0.10		
	I	
7		
19.5		

Metrics Legend	RAG Score	
Red Value	-1	
Amber Value	0	
Green Value	1	
Tier 1	Less Than	0
Tier 2	Equal To	0
Tier 3	Greater Than	0

								Step 1: Normalize Raw Data					
Year of Need	Year of Need Indicator	Duration (Hours)	Capacity Need (MW)	Circuits	Capacity Need (MW)/Circuit	Operational Requirement	Number of Grid Needs	LNBA (\$/MW-yr)	LNBA (\$/MWh-yr)	Unit Cost of Traditional Mitigation (\$)	Grid Need Certainty	Year of Need	Duration (Hours)
2026	4	3	4.00	10	0.40	DA	1	0.41	0.41		1.00		0.95
2022	0	3	1.50	11	0.14	DA	1	0.87	1.00		0.24		0.95
2026	4	8	3.72	1	3.72	DA	1	0.22	0.04		0.96		0.73
2024	2	3	1.97	12	0.16	DA	1	0.14	0.12		0.53		0.95
2026	4	14	21.90	8	2.74	DA	1	0.26	0.00		0.91		0.45
2022	0	12	21.00	7	3.00	DA	1	0.36	0.03		0.61		0.55
2022	0	8	21.12	11	1.92	DA	1	0.03	0.01		0.63		0.73
2025	3	24	8.78	1	8.78	DA	2	0.04	0.00		0.94		0.00
2026	4	8	13.20	7	1.89	DA	1	0.21	0.04		0.56		0.73
2022	0	9	286.30	157	1.82	I	1	0.46	0.06		0.44		0.68
2023	1	6	8.39	8	1.05	DA	1	0.07	0.05		0.35		0.82
2022	0	18	2.35	1	2.35	DA	2	0.17	0.01		0.44		0.27
2026	4	24	70.00	4	17.50	DA	1	0.00	0.00		0.57		0.00
2025	3	10	5.43	1	5.43	DA	3	0.06	0.01		0.20		0.64
2022	0	24	69.70	1	69.70	DA	4	1.00	0.01		0.44		0.00
2028	6	24	50.08	1	50.08	DA	2	0.45	0.00		0.50		0.00
2022	0	21	4.72	1	4.72	DA	1	0.17	0.00		0.00		0.14
2025	3	9	1.93	1	1.93	DA	2	0.24	0.07		0.74		0.68
2022	0	11	3.13	1	3.13	DA	4	0.14	0.02		0.44		0.59
2024	2	10	2.80	1	2.80	DA	1	0.47	0.17		0.44		0.64
2026	4	2	1.00	10	0.10	DA	1	0.02	0.03		0.27		1.00
2022	0	22	4.60	1	4.60	DA	1	0.18	0.00		0.44		0.09
2022	0	24	8.50	4	2.13	DA	1	0.12	0.00		0.86		0.00
2026	4	18	10.47	1	10.47	DA	3	0.10	0.00		0.50		0.27
2025	3	13	4.13	1	4.13	DA	3	0.27	0.02		0.71		0.50

			Step 2: Apply Flags									Step 3: Determine Quantitative Metrics	
Capacity Need (MW)/Circuit	Operational Requirement	Number of Grid Needs	LNBA (\$/MW-yr)	LNBA (\$/MWh-yr)	Unit Cost of Traditional Mitigation (\$)	Grid Need Certainty	Year of Need	Duration (Hours)	Capacity Need (MW)/Circuit	Operational Requirement	Number of Grid Needs	Cost Effectiveness	Scaled Forecast Certainty
1.00												0.83	2.00
1.00												1.87	0.47
0.95												0.26	1.92
1.00												0.26	1.06
0.96												0.27	1.81
0.96												0.39	1.21
0.97												0.04	1.26
0.88												0.04	1.89
0.97												0.25	1.11
0.98										FLAG		0.52	0.88
0.99												0.12	0.70
0.97												0.17	0.88
0.75												0.00	1.14
0.92												0.07	0.40
0.00												1.01	
0.28												0.46	
0.93												0.17	0.00
0.97												0.30	1.47
0.96												0.16	0.88
0.96												0.64	0.88
1.00												0.05	0.54
0.94												0.18	0.88
0.97												0.12	1.72
0.85												0.10	1.00
0.94												0.29	1.42

Metric Scores	Step 4: Rank Quantitative Metric Scores			Step 5: Assign RAG Scores				Step 6: Determine Final Score and Ranking			Approval Status
Market Assessment	Cost Effectiveness	Scaled Forecast Certainty	Market Assessment	Cost Effectiveness	Scaled Forecast Certainty	Market Assessment	Final RAG Score	Final Score	Final Ranking	Final Tiering	
1.95	3	1	4	1	1	1	3	4.78	1	Tier 1	CAISO: Approval in 2009 CPUC: Certificate of Public Convenience and Necessity (CPCN) under review. CPCN: Estimated approval mid 2024 SCE: Approval for 3rd amended filing 2022
1.95	1	21	2	1	-1	1	1	4.29	2	Tier 1	
1.68	11	2	8	0	1	0	1	3.86	3	Tier 1	
1.95	12	12	3	0	0	1	1	3.28	6	Tier 1	
1.42	10	4	16	0	1	0	1	3.50	4	Tier 1	
1.50	7	9	14	1	0	0	1	3.10	9	Tier 1	
1.70	24	8	7	-1	0	1	0	3.00	12	Tier 2	
0.88	23	3	22	-1	1	-1	-1	2.81	14	Tier 3	
1.70	13	11	6	0	0	1	1	3.07	10	Tier 1	
				1	0 FLAG		Tier 3		11		
1.66	5	18	9					3.05		Tier 3	CAISO: N/A CPUC: Anticipate PTC filing 2023, estimate approval 2025. SCE: Licensing activities authorized internally in 2019 CAISO: N/A CPUC: Addendum to the developers Environmental Impact Report (AEIR) being discussed, SCE may determine project is exempt from GO 131-D and file an Advice Letter in 2023. SCE: Licensing activities authorized
1.80	19	19	5	0	-1	1	0	2.62	15	Tier 2	
1.24	16	17	17	0	0	0	0	2.29	18	Tier 2	
0.75	25	10	23	-1	0	-1	-2	1.89	22	Tier 3	
1.56	21	22	12	-1	-1	0	-2	2.03	21	Tier 3	
				1		-1	0		23		
0.00	2		25					1.51		Tier 2	
				1		-1	0		25		
0.28	6		24					1.11		Tier 2	
1.07	15	23	19	0	-1	0	-1	1.24	24	Tier 3	CAISO: N/A CPUC: PTC Issued in 2018 SCE: Construction Complete
1.66	8	6	10	0	1	0	1	3.43	5	Tier 1	
1.55	17	14	13	0	0	0	0	2.59	16	Tier 2	
1.60	4	14	11	1	0	0	1	3.12	8	Tier 1	
2.00	22	20	1	-1	-1	1	-1	2.59	17	Tier 3	
1.03	14	14	20	0	0	-1	-1	2.09	20	Tier 3	
0.97	18	5	21	0	1	-1	0	2.81	13	Tier 2	
1.12	20	13	18	-1	0	0	-1	2.22	19	Tier 3	
1.44	9	7	15	0	0	0	0	3.15	7	Tier 2	

Level of Certainty Matrix (a.k.a. scoring rubrics, table of guidelines)

	Score	0	1	2	3	Weight
Customer Information	SCE Application for Service	N/A	Received	N/A	N/A	1
	Construction Status	Not Started	Grading	Construction Started/Existing Building	Construction Complete	3
	Low/High Voltage Switchgear	None	Design / Drawings Received	Approved	Authority Having Jurisdiction (AHJ) signoff / Installed on-site	2
	Load Schedule	None	Range Provided but no firm values	Received but not validated	Data Confirmed	1
	Status of Environmental Review or other Regulatory efforts	Not Started	In Progress / Not Required	Filed	Approved	1
SCE Information	Added Facilities	None	Customer Moving Forward	N/A	Added Facilities Agreement Complete	2
	Design Status	Not Started	In Preliminary Design	Final Design Approved	Customer Invoiced	1

SCE Application for Service	Has the customer submitted an application for connecting to the distribution grid
Construction Status	The stage of the customer building construction
Low/High Voltage Switchgear	Status of customer electrical panel design and construction
Load Schedule	The amount of forecasted demand increase over time for the customer
Status of Environmental Review or other Regulatory efforts	This pertains to large projects mostly those requiring a license
Added Facilities	The high voltage electrical equipment owned by customer but maintained by SCE
Design Status	The design and associated equipment required to connect the customer to the grid

Illustrative Example of LOC Score Calculation for An Asset

Circuit A has grid needs associated with a candidate deferral project, and there are three expected load growth projects (a, b, and c) in the area.

- Load growth project a has an expected peak demand of 5kW, and its LOC score is 25
- Load growth project b has an expected peak demand of 35kW, and its LOC score is 13
- Load growth project c has an expected peak demand of 24kW, and its LOC score is 10

The LOC for Circuit A is calculated as:

$$\begin{aligned}
 &= [\text{Peak Demand (a)} * \text{LOC (a)} + \text{Peak Demand (b)} * \text{LOC (b)} + \text{Peak Demand (c)} * \text{LOC (c)}] / [\text{Peak Demand (a)} + \text{Peak Demand (b)} + \text{Peak Demand (c)}] \\
 &= (5 * 25 + 35 * 13 + 24 * 10) / (5 + 35 + 24) \\
 &= 12.81
 \end{aligned}$$

General Inputs

First load forecast year	2022
Discount Rate (%/yr)	10.00%
Cost Year Basis	2022

Parameters	Substation	Substation Bank	Primary Feeder	Poles and towers	Capacitors	Protection equipment	IT
Revenue Requirement Multiplier	1.12	1.12	1.17	1.21	1.17	1.15	1.22
Equipment Inflation (%/yr)	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	1.0%
O&M Inflation (%/yr)	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.8%
O&M Factor	1.6%	1.6%	1.6%	1.6%	1.6%	1.6%	1.6%
Book Life (yrs)	67	67	33	55	33	49	11
RECC	0.069	0.069	0.076	0.070	0.076	0.071	0.134
Discount rate net or project inflation (%/yr)	7.4%	7.4%	7.4%	7.4%	7.4%	7.4%	8.9%
Discount rate net of O&M inflation (%/yr)	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.0%

Project Inputs and LNBA Calculation

	Capital Cost										Project Information		Cumulative MW Reduction Needed for Deferral										#1 Rate	#2.1
Project ID	Substation	Substation Bank	Primary Feeder	Poles and towers	Capacitors	Protection equipment	IT	Operating Year / Install Year	Deferral Period	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Discount rate net or project inflation (%/yr)	DER Installation Year Reference Index			
DDOR_2022_026575	\$	-	\$	-	\$	1,683,228.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_042489	\$	-	\$	-	\$	669,093.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_047440	\$	-	\$	-	\$	264,346.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_049557	\$	-	\$	-	\$	1,912,046.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_062955_930268	\$	243,423.02	\$	-	\$	4,451,109.07	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_084621	\$	-	\$	-	\$	5,434,838.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_131048	\$	-	\$	-	\$	468,790.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_136846	\$	-	\$	-	\$	281,464.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_136848	\$	-	\$	-	\$	31,998.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_136849	\$	-	\$	-	\$	113,525.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_142866	\$	-	\$	-	\$	1,155,925.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_142868	\$	-	\$	-	\$	81,576.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_143878	\$	-	\$	-	\$	121,820.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_147945	\$	-	\$	-	\$	1,829,993.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_147946	\$	-	\$	-	\$	1,439,001.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_151044	\$	-	\$	-	\$	1,861,048.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_159845	\$	-	\$	-	\$	56,621.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_179823	\$	-	\$	-	\$	388,468.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_222897	\$	-	\$	-	\$	837,228.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_229028	\$	-	\$	-	\$	114,206.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_231789	\$	-	\$	-	\$	2,908,405.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_231790	\$	-	\$	-	\$	117,415.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_231807	\$	-	\$	-	\$	468,790.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_232960	\$	-	\$	-	\$	274,231.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_232964	\$	-	\$	-	\$	70,331.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_232965	\$	-	\$	-	\$	115,872.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_232966	\$	-	\$	-	\$	717,691.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_232967	\$	-	\$	-	\$	81,576.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_232968	\$	-	\$	-	\$	1,076,327.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_234816	\$	-	\$	-	\$	2,989,032.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_243199	\$	-	\$	-	\$	1,317,174.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_243200	\$	-	\$	-	\$	217,264.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_243210	\$	-	\$	-	\$	43,507.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_244897	\$	-	\$	-	\$	48,986.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_244898	\$	-	\$	-	\$	535,731.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_246885	\$	-	\$	-	\$	81,576.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_246887	\$	-	\$	-	\$	1,143,270.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_246888	\$	-	\$	-	\$	632,455.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_246889	\$	-	\$	-	\$	919,586.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_246891	\$	-	\$	-	\$	699,963.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_246893	\$	-	\$	-	\$	557,263.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_246895	\$	-	\$	-	\$	1,381,451.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_247182	\$	-	\$	-	\$	996,770.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_247183	\$	-	\$	-	\$	39,643.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_247188	\$	-	\$	-	\$	40,399.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_247189	\$	-	\$	-	\$	82,936.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_251953	\$	-	\$	-	\$	593,727.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_259628	\$	-	\$	-	\$	526,790.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_273852	\$	-	\$	-	\$	67,980.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_277002	\$	-	\$	-	\$	424,195.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_286921	\$	-	\$	-	\$	106,049.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_286922	\$	-	\$	-	\$	543,840.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	3		
DDOR_2022_288602	\$	-	\$	-	\$	573,071.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_288603	\$	-	\$	-	\$	924,283.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	1		
DDOR_2022_322586	\$	-	\$	-	\$	1,310,891.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_322590	\$	-	\$	-	\$	381,391.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_326084	\$	-	\$	-	\$	512,324.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_327851	\$	-	\$	-	\$	325,337.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_327852	\$	-	\$	-	\$	875,582.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_327859	\$	-	\$	-	\$	305,102.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
DDOR_2022_330814	\$	-	\$	-	\$	147,666.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		

DDOR_2022_330815	\$	-	\$	-	\$	601,582.00	\$	-	\$	-	\$	-	\$	-	2023	9	1.98	5.18	5.16	5.16	5.13	5.11	5.31	5.63	5.94	6.20	7.4%	2	
DDOR_2022_330817	\$	-	\$	-	\$	960,498.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	0.00	0.00	0.00	0.15	0.42	0.82	1.39	2.00	2.53	7.4%	2	
DDOR_2022_332985	\$	-	\$	-	\$	144,763.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.4%	2	
DDOR_2022_332991	\$	-	\$	-	\$	110,572.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	0.83	3.73	3.63	3.53	3.43	3.43	3.33	3.23	3.13	7.4%	2	
DDOR_2022_334557	\$	-	\$	-	\$	768,035.00	\$	-	\$	-	\$	-	\$	-	2023	9	2.22	1.30	1.39	1.30	2.00	1.50	1.13	1.22	1.33	1.39	7.4%	2	
DDOR_2022_334568	\$	-	\$	-	\$	40,345.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.20	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	7.4%	2	
DDOR_2022_334569	\$	-	\$	-	\$	99,935.00	\$	-	\$	-	\$	-	\$	-	2023	9	4.10	4.60	4.70	4.70	4.60	4.40	4.60	4.70	4.80	4.90	7.4%	2	
DDOR_2022_334575	\$	-	\$	-	\$	221,185.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	0.00	1.03	1.22	1.43	1.62	1.69	1.67	1.65	1.62	7.4%	2	
DDOR_2022_336771	\$	-	\$	-	\$	317,208.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.07	0.46	0.67	0.78	0.87	0.96	0.98	0.96	0.93	0.93	7.4%	2	
DDOR_2022_336772	\$	-	\$	-	\$	110,535.00	\$	-	\$	-	\$	-	\$	-	2023	9	1.39	0.48	0.46	0.41	0.39	0.35	0.39	0.01	0.01	0.01	7.4%	2	
DDOR_2022_336774	\$	-	\$	-	\$	132,808.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.74	0.65	0.48	0.37	0.24	0.13	0.09	0.09	0.07	0.04	7.4%	2	
DDOR_2022_336775	\$	-	\$	-	\$	608,413.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	0.39	3.04	3.11	3.04	3.00	2.98	2.98	3.00	2.98	7.4%	2	
DDOR_2022_336787	\$	-	\$	-	\$	35,835.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.30	0.76	0.76	1.02	1.30	1.57	1.65	1.67	1.65	1.65	7.4%	2	
DDOR_2022_336789	\$	-	\$	-	\$	36,182.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.33	0.15	0.17	0.13	0.07	0.02	0.01	0.01	0.01	0.01	7.4%	2	
DDOR_2022_336790	\$	-	\$	-	\$	35,422.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.83	0.76	0.74	0.70	0.67	0.65	0.61	0.59	0.57	0.54	7.4%	2	
DDOR_2022_336791	\$	-	\$	-	\$	38,069.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.30	2.06	0.76	1.02	1.30	1.57	1.65	1.65	1.67	1.65	7.4%	2	
DDOR_2022_336792	\$	-	\$	-	\$	73,531.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.30	2.06	0.76	1.02	1.30	1.57	1.65	1.65	1.67	1.65	7.4%	2	
DDOR_2022_336793	\$	-	\$	-	\$	41,400.00	\$	-	\$	-	\$	-	\$	-	2023	9	10.91	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.4%	2
DDOR_2022_336794	\$	-	\$	-	\$	38,069.00	\$	-	\$	-	\$	-	\$	-	2023	9	10.91	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.4%	2
DDOR_2022_336795	\$	-	\$	-	\$	31,815.00	\$	-	\$	-	\$	-	\$	-	2023	9	10.91	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.4%	2
DDOR_2022_336801	\$	-	\$	-	\$	523,331.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.85	0.78	0.70	0.63	0.59	0.52	0.50	0.46	0.43	0.41	7.4%	2	
DDOR_2022_336802	\$	-	\$	-	\$	545,954.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.85	0.78	0.70	0.63	0.59	0.52	0.50	0.46	0.43	0.41	7.4%	2	
DDOR_2022_340023	\$	-	\$	-	\$	101,970.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	7.4%	2	
DDOR_2022_340024	\$	-	\$	-	\$	312,708.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	7.4%	2	
DDOR_2022_343568	\$	-	\$	-	\$	271,223.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.30	0.43	0.61	0.52	0.41	0.33	0.26	0.24	0.20	0.15	7.4%	2	
DDOR_2022_346252	\$	-	\$	-	\$	797,554.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.4%	2	
DDOR_2022_347545	\$	-	\$	-	\$	1,274,717.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.70	1.00	1.20	1.00	1.00	0.90	1.10	1.30	1.70	2.00	7.4%	2	
DDOR_2022_347553	\$	-	\$	-	\$	218,144.00	\$	-	\$	-	\$	-	\$	-	2023	9	5.50	5.40	5.20	0.30	0.20	0.20	0.20	0.20	0.30	0.30	7.4%	2	
DDOR_2022_373832	\$	-	\$	-	\$	203,940.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	0.87	0.98	1.07	1.09	1.04	1.02	1.11	1.22	1.46	7.4%	2	
DDOR_2022_377696	\$	-	\$	-	\$	516,734.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	0.33	0.65	0.87	1.09	1.20	1.30	1.20	1.20	1.20	7.4%	2	
DDOR_2022_377697	\$	-	\$	-	\$	1,342,333.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	1.30	0.43	0.65	0.54	0.65	0.76	0.76	0.87	0.98	7.4%	2	
DDOR_2022_377698	\$	-	\$	-	\$	501,420.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	0.54	0.65	0.76	0.87	0.98	1.20	1.52	1.96	1.30	7.4%	2	
DDOR_2022_377699	\$	-	\$	-	\$	341,803.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.33	0.22	0.11	0.01	0.01	0.01	0.01	0.01	0.22	0.54	7.4%	2	
DDOR_2022_386022	\$	-	\$	-	\$	99,931.00	\$	-	\$	-	\$	-	\$	-	2023	9	1.09	1.57	1.76	1.83	1.85	1.89	1.89	1.89	1.83	1.78	7.4%	2	
DDOR_2022_388548	\$	-	\$	-	\$	1,343,355.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	0.54	0.43	0.65	0.98	1.85	2.28	2.46	2.52	2.59	7.4%	2	
DDOR_2022_4052_027588	\$	369,930.42	\$	-	\$	137,069.58	\$	-	\$	-	\$	-	\$	-	2023	9	5.00	6.90	7.60	7.70	7.70	7.60	7.50	7.50	7.40	7.30	7.4%	2	
DDOR_2022_4052_334082	\$	369,930.42	\$	-	\$	137,069.58	\$	-	\$	-	\$	-	\$	-	2023	9	3.76	3.87	6.39	4.55	4.30	4.07	3.99	3.95	3.98	3.96	7.4%	2	
DDOR_2022_4052_747043	\$	369,930.42	\$	-	\$	137,069.58	\$	-	\$	-	\$	-	\$	-	2024	8	4.00	3.90	3.90	3.70	3.60	3.60	3.60	3.80	3.90	3.90	7.4%	3	
DDOR_2022_422077	\$	-	\$	-	\$	149,336.00	\$	-	\$	-	\$	-	\$	-	2024	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.4%	3	
DDOR_2022_434565	\$	-	\$	-	\$	491,519.00	\$	-	\$	-	\$	-	\$	-	2024	8	2.89	5.41	6.37	4.08	3.80	3.62	3.37	3.28	3.18	3.08	7.4%	3	
DDOR_2022_434568	\$	-	\$	-	\$	156,669.00	\$	-	\$	-	\$	-	\$	-	2024	8	1.09	1.00	0.98	0.91	0.87	0.85	0.83	0.78	0.78	0.74	7.4%	3	
DDOR_2022_434572	\$	-	\$	-	\$	991,374.00	\$	-	\$	-	\$	-	\$	-	2024	8	0.31	0.83	1.07	1.00	0.90	0.81	0.92	1.14	1.35	1.52	7.4%	3	
DDOR_2022_440032	\$	-	\$	-	\$	367,092.00	\$	-	\$	-	\$	-	\$	-	2024	8	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	7.4%	3	
DDOR_2022_443042	\$	-	\$	-	\$	4,290,898.00	\$	-	\$	-	\$	-	\$	-	2023	9	0.70	0.90	7.93	9.90	12.46	13.93	14.64	14.26	14.11	13.87	7.4%	2	
DDOR_2022_444088	\$	-	\$	-	\$	5,757,688.00	\$	-	\$	-	\$	-	\$	-	2024	8	2.42	2.43	2.43	2.44	2.44	2.44	2.44	2.44	2.44	2.45	7.4%	3	
DDOR_2022_446095	\$	-	\$	-	\$	259,189.00	\$	-	\$	-	\$	-	\$	-	2024	8	0.80	1.30	1.50	1.50	1.50	1.40	1.50	1.70	1.90	2.10	7.4%	3	
DDOR_2022_447030	\$	-	\$	-	\$	986,516.00	\$	-	\$	-	\$	-	\$	-	2024	8	5.20	4.10	4.10	3.90	3.80	3.60	3.70	3.60	3.60	3.50	7.4%	3	
DDOR_2022_451637	\$	-	\$	-	\$	368,356.00	\$	-	\$	-	\$	-	\$	-	2024	8	0.00	0.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	7.4%	3	
DDOR_2022_451646	\$	-	\$	-	\$	65,792.00	\$	-	\$	-	\$	-	\$	-	2024	8	0.00	0.00	0.65	0.65	0.65	0.65	0.67	0.65	0.67	0.65	7.4%	3	
DDOR_2022_5174_134827	\$	3,825,997.55	\$	-	\$	7,283,833.20	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	0.00	0.00	0.00	0.10	0.80	1.00	1.00	0.90	0.90	7.4%	2	
DDOR_2022_5174_134829	\$	3,825,997.55	\$	-	\$	7,283,833.20	\$	-	\$	-	\$	-	\$	-	2022	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.4%	1	
DDOR_2022_584001	\$	-	\$	-	\$	342,549.00	\$	-	\$	-	\$	-	\$	-	2022	10	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.91	0.91	0.91	7.4%	1	
DDOR_2022_6030	\$	67,414,997.38	\$	-	\$	135,920,418.75	\$	-	\$	-	\$	-	\$	3,708,444.49	2022	10	8.00	8.00	8.00	9.00	10.00	10.00	12.00	14.00	16.00	18.00	7.4%	1	
DDOR_2022_6575	\$	22,265,301.78	\$	-	\$	82,665.27	\$	-	\$	-	\$	-	\$	23,542.59	2022	10	5.00	6.00	6.00	6.00	6.00	6.00	6.00	7.00	10.00	10.00	7.4%	1	
DDOR_2022_6652	\$	385,260.70	\$	-	\$	2,820,606.92	\$	-	\$	-	\$	-	\$	675,000.00	2023	9	0												

DDOR_2022_8253	\$	1,254,859.88	\$	-	\$	-	\$	-	\$	-	\$	-	2024	8	0.94	0.92	0.87	0.87	0.87	0.87	0.70	0.70	0.70	0.70	7.4%	3
DDOR_2022_8271	\$	1,863,997.09	\$	-	\$	-	\$	-	\$	-	\$	-	2022	10	7.80	7.70	7.70	7.60	7.50	7.40	7.40	7.40	7.30	7.30	7.4%	1
DDOR_2022_8286	\$	250,355.26	\$	-	\$	-	\$	-	\$	-	\$	-	2022	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.4%	1
DDOR_2022_8292	\$	2,120,677.57	\$	-	\$	-	\$	-	\$	-	\$	-	2023	9	17.33	19.03	18.93	18.83	18.63	18.43	18.53	18.63	18.73	18.73	7.4%	2
DDOR_2022_8293	\$	151,994.72	\$	-	\$	-	\$	-	\$	-	\$	-	2022	10	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	7.4%	1
DDOR_2022_8299_379635	\$	188,228.82	\$	-	\$	3,642,761.46	\$	-	\$	-	\$	-	2024	8	0.00	0.41	0.65	0.61	1.72	3.15	5.14	5.33	5.44	5.65	7.4%	3
DDOR_2022_8303_224805	\$	262,891.59	\$	-	\$	3,307,912.31	\$	-	\$	-	\$	-	2022	10	3.78	11.93	10.13	10.26	10.24	10.30	10.67	9.96	10.54	11.09	7.4%	1
DDOR_2022_8309_234806	\$	269,928.68	\$	-	\$	3,515,963.43	\$	-	\$	-	\$	-	2023	9	3.62	4.32	3.54	3.59	3.35	3.15	3.28	3.76	4.20	4.65	7.4%	2
DDOR_2022_8310	\$	4,714,472.44	\$	-	\$	-	\$	-	\$	-	\$	-	2022	10	10.91	10.61	8.59	8.33	8.04	7.78	7.83	8.02	8.15	8.15	7.4%	1
DDOR_2022_8314_579015	\$	12,930,300.00	\$	-	\$	12,930,300.00	\$	-	\$	-	\$	-	2024	8	16.87	9.24	7.20	25.61	49.72	72.00	79.80	79.90	79.90	80.00	7.4%	3
DDOR_2022_8321_243201	\$	742,833.96	\$	-	\$	4,059,472.88	\$	-	\$	-	\$	-	2024	8	6.24	9.47	13.41	15.35	17.65	17.59	17.59	20.66	24.66	28.51	7.4%	3
DDOR_2022_8324_239185	\$	3,508,905.67	\$	-	\$	3,465,382.56	\$	-	\$	-	\$	-	2022	10	0.00	3.01	11.05	7.62	8.39	14.41	14.35	14.45	14.32	14.22	7.4%	1
DDOR_2022_8330_277960	\$	1,724,515.42	\$	-	\$	3,584,519.25	\$	-	\$	-	\$	-	2022	10	0.00	5.43	6.87	6.94	9.60	10.22	10.39	10.61	10.80	10.91	7.4%	1
DDOR_2022_8337_273832	\$	426,203.39	\$	-	\$	3,784,245.02	\$	-	\$	-	\$	-	2022	10	0.00	0.13	0.72	3.00	6.83	12.22	12.22	12.33	12.15	12.11	7.4%	1
DDOR_2022_8359	\$	2,492,863.70	\$	-	\$	6,751,946.88	\$	-	\$	-	\$	-	2023	9	0.00	28.73	22.53	26.03	27.73	29.23	31.13	31.23	32.93	34.73	7.4%	2
DDOR_2022_8359_334552	\$	2,492,863.70	\$	-	\$	6,751,946.88	\$	-	\$	-	\$	-	2023	9	0.00	14.23	12.95	13.67	13.71	13.73	14.10	13.56	14.12	14.64	7.4%	2
DDOR_2022_8359_334553	\$	2,492,863.70	\$	-	\$	6,751,946.88	\$	-	\$	-	\$	-	2023	9	0.00	10.13	14.37	15.33	15.39	15.46	15.83	15.09	15.67	16.17	7.4%	2
DDOR_2022_8360	\$	8,623,464.05	\$	-	\$	-	\$	-	\$	-	\$	-	2024	8	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	7.4%	3
DDOR_2022_8369	\$	1,572,293.44	\$	-	\$	-	\$	-	\$	-	\$	-	2023	9	2.26	4.16	4.16	4.16	4.06	4.06	4.06	4.06	4.06	4.06	7.4%	2
DDOR_2022_8374	\$	2,409,753.96	\$	-	\$	6,745,200.89	\$	-	\$	-	\$	-	2023	9	0.00	0.00	5.28	11.17	12.41	13.41	14.26	15.17	16.11	16.87	7.4%	2
DDOR_2022_8374_334561	\$	2,409,753.96	\$	-	\$	6,745,200.89	\$	-	\$	-	\$	-	2023	9	2.11	1.13	3.26	4.83	6.38	7.70	7.89	7.92	7.94	7.96	7.4%	2
DDOR_2022_8374_334562	\$	2,409,753.96	\$	-	\$	6,745,200.89	\$	-	\$	-	\$	-	2023	9	1.63	2.65	3.02	3.00	3.00	2.96	3.18	3.65	4.11	4.48	7.4%	2
DDOR_2022_8378_377668	\$	257,713.38	\$	-	\$	3,382,299.68	\$	-	\$	-	\$	-	2023	9	3.05	2.17	2.74	2.72	3.80	4.35	5.22	5.77	6.19	5.64	7.4%	2
DDOR_2022_8383	\$	110,643.17	\$	-	\$	-	\$	-	\$	-	\$	-	2023	9	1.20	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	7.4%	2
DDOR_2022_8386_373837	\$	4,176,894.29	\$	-	\$	6,732,484.92	\$	-	\$	-	\$	-	2023	9	0.00	7.83	9.69	9.56	9.48	9.42	9.46	9.52	9.57	9.59	7.4%	2
DDOR_2022_8386_473036	\$	4,176,894.29	\$	-	\$	6,732,484.92	\$	-	\$	-	\$	-	2024	8	0.00	0.00	4.02	8.07	8.07	8.07	8.07	8.07	8.07	8.07	7.4%	3
DDOR_2022_8388	\$	9,912,621.63	\$	-	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.4%	2
DDOR_2022_8402	\$	58,687.33	\$	-	\$	-	\$	-	\$	-	\$	-	2023	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.20	0.20	7.4%	2
DDOR_2022_8403	\$	3,016,462.73	\$	-	\$	35,619,964.55	\$	-	\$	-	\$	-	2024	8	0.00	14.80	57.80	58.00	58.00	58.20	254.20	254.40	254.60	254.80	7.4%	3
DDOR_2022_8417	\$	135,476.79	\$	-	\$	-	\$	-	\$	-	\$	-	2022	10	14.05	16.65	17.35	17.45	17.45	17.35	17.55	18.05	18.45	18.75	7.4%	1
DDOR_2022_8459_372020	\$	406,400.79	\$	-	\$	3,372,784.92	\$	-	\$	-	\$	-	2023	9	0.00	4.90	4.80	4.70	4.70	4.50	4.50	4.40	4.50	4.50	7.4%	2
DDOR_2022_8461	\$	91,640.62	\$	-	\$	-	\$	-	\$	-	\$	-	2022	10	9.65	0.01	0.01	0.01	0.01	0.01	0.01	0.33	1.43	2.33	7.4%	1
DDOR_2022_8464_434559	\$	158,179.04	\$	-	\$	3,375,189.47	\$	-	\$	-	\$	-	2024	8	0.13	0.78	0.43	1.33	2.52	3.67	4.54	4.96	5.52	5.96	7.4%	3
DDOR_2022_8467_434561	\$	274,664.40	\$	-	\$	3,367,043.38	\$	-	\$	-	\$	-	2024	8	0.00	0.00	3.45	11.06	12.66	14.26	16.04	16.13	17.92	19.69	7.4%	3
DDOR_2022_8475_473039	\$	244,090.89	\$	-	\$	6,720,773.31	\$	-	\$	-	\$	-	2024	8	0.00	0.00	5.74	10.28	10.28	10.28	10.28	10.28	10.28	10.28	7.4%	3
DDOR_2022_8477	\$	803,052.57	\$	-	\$	-	\$	-	\$	-	\$	-	2024	8	15.52	14.51	14.18	14.12	14.01	13.54	14.01	16.54	17.06	17.49	7.4%	3
DDOR_2022_8478_473037	\$	305,442.84	\$	-	\$	3,366,157.90	\$	-	\$	-	\$	-	2024	8	1.09	3.41	5.69	8.22	11.20	11.44	12.55	12.94	13.04	13.46	7.4%	3
DDOR_2022_8478_473040	\$	305,442.84	\$	-	\$	3,366,157.90	\$	-	\$	-	\$	-	2024	8	0.00	0.74	3.02	5.52	7.59	6.35	7.04	7.00	6.93	6.89	7.4%	3
DDOR_2022_8482	\$	1,487,797.27	\$	-	\$	-	\$	-	\$	-	\$	-	2024	8	0.00	0.00	0.13	0.59	0.54	0.50	0.35	0.26	0.22	0.15	7.4%	3
DDOR_2022_8495_277962	\$	60,487.41	\$	-	\$	8,500.02	\$	-	\$	-	\$	-	2022	10	8.27	11.08	4.78	5.32	5.32	5.35	5.32	5.22	5.11	5.00	7.4%	1
DDOR_2022_8496	\$	336,076.99	\$	-	\$	3,373,560.31	\$	-	\$	-	\$	-	2024	8	0.00	0.00	0.00	0.00	1.20	6.37	8.51	10.47	12.44	14.57	7.4%	3
DDOR_2022_8496_434551	\$	336,076.99	\$	-	\$	3,373,560.31	\$	-	\$	-	\$	-	2024	8	0.00	0.00	2.59	2.96	2.98	3.57	3.91	4.07	4.24	4.57	7.4%	3
DDOR_2022_8507	\$	1,411,833.00	\$	-	\$	-	\$	-	\$	-	\$	-	2024	8	40.40	39.30	19.50	19.30	18.10	17.60	19.60	22.20	23.50	25.00	7.4%	3
DDOR_2022_879027	\$	-	\$	-	\$	1,577,233.00	\$	-	\$	-	\$	-	2022	10	5.97	6.42	3.80	3.48	3.48	3.15	3.48	2.07	2.29	2.40	7.4%	1
DDOR_2022_953002	\$	-	\$	-	\$	14,290,450.00	\$	-	\$	-	\$	-	2024	8	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	7.4%	3
DDOR_2022_973262	\$	-	\$	-	\$	1,439,422.00	\$	-	\$	-	\$	-	2022	10	0.49	0.73	0.36	0.30	0.24	0.18	0.24	0.33	0.40	0.47	7.4%	1
DDOR_2022_977279	\$	-	\$	-	\$	16,000,298.00	\$	-	\$	-	\$	-	2022	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.4%	1
DDOR_2022_984254	\$	-	\$	-	\$	16,208,652.00	\$	-	\$	-	\$	-	2022	10	0.93	0.94	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	7.4%	1
DDOR_2022_DSP33061_479085	\$	12,047,400.00	\$	-	\$	12,047,400.00	\$	-	\$	-	\$	-	2024	8	0.00	0.00	0.00	16.23	9.10	10.40	14.40	14.30	14.10	14.00	7.4%	3
DDOR_2022_DSP33808_231755	\$	3,373,515.00	\$	-	\$	3,373,515.00	\$	-	\$	-	\$	-	2023	9	3.54	2.20	1.09	2.39	2.63	2.57	2.52	2.52	2.61	2.61	7.4%	2
DDOR_2022_DSP34706_477076	\$	3,783,326.64	\$	-	\$	-	\$	-	\$	-	\$	-	2024	8	4.13	3.81	5.44	5.98	6.41	6.96	7.07	6.96	6.85	6.85	7.4%	3
DDOR_2022_DSP34909_333089	\$	441,336.25	\$	-	\$	-	\$	-	\$	-	\$	-	2023	9	1.20	1.87	2.13	2.71	2.59	2.48	2.41	2.37	2.34	2.30	7.4%	2
DDOR_2022_DSP35401_473042	\$	82,084.57	\$	-	\$	-	\$	-	\$	-	\$	-	2024	8	2.65	2.50	2.39	2.27	2.15	2.07	2.28	2.68	3.07	3.41	7.4%	3
DDOR_2022_DSP35767	\$	3,791,648.87	\$	-	\$	-	\$	-	\$	-	\$	-	2024	8	0.00	0.00	0.31	3.06	3.00	2.91	2.83	2.91	3.02	2.96	7.4%	3
DDOR_2022_TSP_STL35270	\$	110,184.73	\$	-	\$	-	\$	-	\$	-	\$	-	2023	9	3.00	3.00	3.00	5.00	5.00	5.00	7.00					

DDOR_2022_2022 DVAR Plan_8	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2022	10	0.10	0.10	0.10	0.10	0.07	0.07	0.07	0.07	0.07	0.07	7.4%	1
DDOR_2022_2022 DVAR Plan_9	\$	-	\$	-	\$	-	\$	-	\$	90,634.54	\$	-	\$	-	2022	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.4%	1
DDOR_2022_2023 DVAR Plan_1	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.08	0.10	7.4%	2
DDOR_2022_2023 DVAR Plan_10	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	0.18	0.18	0.13	0.13	0.09	0.09	0.09	0.04	0.04	0.01	7.4%	2
DDOR_2022_2023 DVAR Plan_11	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	1.36	1.63	1.72	1.72	1.63	1.63	1.63	1.63	1.54	1.54	7.4%	2
DDOR_2022_2023 DVAR Plan_12	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	0.11	0.11	0.11	0.11	0.11	0.11	0.14	0.14	0.17	0.17	7.4%	2
DDOR_2022_2023 DVAR Plan_13	\$	-	\$	-	\$	-	\$	-	\$	90,634.54	\$	-	\$	-	2023	9	2.35	2.35	2.35	2.41	2.41	2.65	2.65	2.65	2.65	2.65	7.4%	2
DDOR_2022_2023 DVAR Plan_14	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	1.38	1.32	1.26	1.20	1.14	0.01	0.01	0.01	0.01	0.01	7.4%	2
DDOR_2022_2023 DVAR Plan_15	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	2.61	2.53	2.53	2.53	2.53	2.53	2.46	2.46	2.46	2.39	7.4%	2
DDOR_2022_2023 DVAR Plan_16	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.12	7.4%	2
DDOR_2022_2023 DVAR Plan_17	\$	-	\$	-	\$	-	\$	-	\$	90,634.54	\$	-	\$	-	2023	9	0.82	1.30	1.53	1.56	1.53	1.83	1.86	1.89	1.92	1.98	7.4%	2
DDOR_2022_2023 DVAR Plan_18	\$	-	\$	-	\$	-	\$	-	\$	90,634.54	\$	-	\$	-	2023	9	1.12	1.12	1.12	1.12	1.07	1.37	1.37	1.37	1.33	1.33	7.4%	2
DDOR_2022_2023 DVAR Plan_19	\$	-	\$	-	\$	-	\$	-	\$	90,634.54	\$	-	\$	-	2023	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.4%	2
DDOR_2022_2023 DVAR Plan_2	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	0.02	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	7.4%	2
DDOR_2022_2023 DVAR Plan_20	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	3.33	3.33	3.33	3.25	3.25	3.25	3.16	3.16	3.16	3.16	7.4%	2
DDOR_2022_2023 DVAR Plan_21	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	0.79	0.79	0.75	0.75	0.75	0.70	0.70	0.70	0.65	0.65	7.4%	2
DDOR_2022_2023 DVAR Plan_22	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	0.56	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	7.4%	2
DDOR_2022_2023 DVAR Plan_23	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	1.78	1.78	1.78	1.78	1.78	1.71	1.78	1.78	1.78	1.78	7.4%	2
DDOR_2022_2023 DVAR Plan_24	\$	-	\$	-	\$	-	\$	-	\$	90,634.54	\$	-	\$	-	2023	9	0.67	1.71	1.71	1.71	1.71	2.01	2.06	2.06	2.11	2.16	7.4%	2
DDOR_2022_2023 DVAR Plan_25	\$	-	\$	-	\$	-	\$	-	\$	90,634.54	\$	-	\$	-	2023	9	1.69	2.13	2.08	2.08	2.02	2.32	2.38	2.43	2.49	2.54	7.4%	2
DDOR_2022_2023 DVAR Plan_26	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	2.15	2.26	2.32	2.32	2.32	2.26	1.99	2.10	2.15	2.26	7.4%	2
DDOR_2022_2023 DVAR Plan_27	\$	-	\$	-	\$	-	\$	-	\$	90,634.54	\$	-	\$	-	2023	9	1.29	2.21	3.13	3.13	3.06	3.36	3.51	3.82	4.05	4.36	7.4%	2
DDOR_2022_2023 DVAR Plan_28	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	1.22	1.22	1.22	1.17	1.17	1.17	1.22	1.31	1.41	1.50	7.4%	2
DDOR_2022_2023 DVAR Plan_29	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	0.91	0.91	0.91	1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.4%	2
DDOR_2022_2023 DVAR Plan_3	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	0.27	0.42	0.50	0.49	0.66	0.83	0.83	0.85	1.05	1.07	7.4%	2
DDOR_2022_2023 DVAR Plan_30	\$	-	\$	-	\$	-	\$	-	\$	88,526.76	\$	-	\$	-	2023	9	0.92	0.92	0.92	0.98	0.98	0.98	0.98	0.98	0.98	0.98	7.4%	2
DDOR_2022_2023 DVAR Plan_4	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	2.08	2.01	2.01	1.94	1.94	1.86	1.86	1.94	1.94	1.86	7.4%	2
DDOR_2022_2023 DVAR Plan_5	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	1.02	1.17	1.24	1.57	1.94	2.31	2.43	2.39	2.39	2.35	7.4%	2
DDOR_2022_2023 DVAR Plan_6	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.18	3.23	3.23	7.4%	2
DDOR_2022_2023 DVAR Plan_7	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	3.69	3.69	3.69	3.61	3.61	3.61	3.61	3.61	3.61	3.61	7.4%	2
DDOR_2022_2023 DVAR Plan_8	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	0.57	0.57	0.57	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.4%	2
DDOR_2022_2023 DVAR Plan_9	\$	-	\$	-	\$	-	\$	-	\$	44,263.38	\$	-	\$	-	2023	9	0.81	0.81	0.73	0.73	0.65	0.18	0.26	0.41	1.53	1.69	7.4%	2
DDOR_2022_DSP26358_688019	\$	332,149.09	\$	-	\$	3,373,515.00	\$	-	\$	-	\$	-	\$	-	2026	6	0.00	0.00	0.00	0.00	2.65	3.72	3.67	3.65	3.63	3.61	7.4%	5
DDOR_2022_8425	\$	668,980.46	\$	-	\$	24,583,889.78	\$	-	\$	-	\$	-	\$	104,287.40	2026	6	0.00	0.00	0.00	0.00	6.30	21.90	21.90	21.80	21.80	21.70	7.4%	5
DDOR_2022_8325_339553	\$	410,187.84	\$	-	\$	3,373,632.56	\$	-	\$	-	\$	-	\$	3,793.82	2025	7	0.00	0.00	0.00	5.31	8.89	16.78	16.72	16.82	16.69	16.59	7.4%	4
DDOR_2022_4800	\$	31,363,342.20	\$	-	\$	100,373,070.37	\$	-	\$	-	\$	-	\$	3,531,311.43	2027	5	0.00	0.00	0.00	0.00	0.00	0.00	1.22	22.14	38.14	55.30	7.4%	6
DDOR_2022_8256	\$	208,550,005.46	\$	-	\$	123,145,043.25	\$	-	\$	-	\$	-	\$	1,745,413.30	2028	4	6.21	9.93	33.78	56.02	80.05	80.04	80.74	80.14	80.22	80.26	7.4%	7
DDOR_2022_6092	\$	414,554,736.51	\$	-	\$	104,351,279.77	\$	-	\$	-	\$	-	\$	5,813,562.72	2029	3	205.30	218.60	225.00	228.10	237.40	245.70	256.40	265.40	275.40	286.30	7.4%	8
DDOR_2022_8469_577046	\$	1,643,841.72	\$	-	\$	3,383,332.56	\$	-	\$	-	\$	-	\$	3,804.72	2025	7	0.00	0.00	0.00	1.21	7.58	8.92	10.84	12.87	14.22	15.68	7.4%	4
DDOR_2022_8481	\$	3,353,389.66	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	2025	7	0.00	0.52	1.57	3.04	3.50	4.35	5.65	6.78	7.96	8.39	7.4%	4
DDOR_2022_8476	\$	1,488,136.58	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	2025	7	0.00	0.00	0.57	1.17	1.07	1.77	1.97	1.77	1.57	1.27	7.4%	4
DDOR_2022_DSP34759_334554	\$	215,726.79	\$	-	\$	2,563,027.34	\$	-	\$	-	\$	-	\$	3,081.70	2025	7	1.39	1.69	1.93	2.37	2.91	3.37	3.55	3.55	3.47	3.52	7.4%	4
DDOR_2022_TSP35570	\$	-	\$	-	\$	-	\$	-	\$	1,555,391.13	\$	-	\$	-	2026	6	0.00	0.00	0.00	0.00	70.00	70.00	70.00	70.00	70.00	70.00	7.4%	5
DDOR_2022_6055	\$	1,127,004.43	\$	-	\$	4,949,981.67	\$	-	\$	-	\$	-	\$	-	2025	7	0.20	0.50	0.60	0.50	0.40	0.30	0.60	1.10	1.50	1.50	7.4%	4
DDOR_2022_6871	\$	5,473,418.57	\$	-	\$	24,120,362.58	\$	-	\$	-	\$	-	\$	2,398,975.25	2026	6	14.00	17.50	19.00	19.00	19.00	19.00	19.00	19.00	20.00	21.00	7.4%	5
DDOR_2022_DSP35666	\$	3,667,334.09	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	2025	7	6.55	9.64	11.42	13.03	14.00	19.25	19.60	20.09	20.64	21.12	7.4%	4
DDOR_2022_6698	\$	66,124.24	\$	-	\$	12,397,542.88	\$	-	\$	-	\$	-	\$	3,098.51	2026	6	0.00	0.00	0.00	0.00	1.70	5.60	8.80	10.80	13.00	13.20	7.4%	5
DDOR_2022_8509	\$	-	\$	-	\$	7,228,868.08	\$	-	\$	-	\$	-	\$	-	2026	6	0.00	0.00	0.00	0.00	3.40	1.70	3.30	3.50	3.80	4.00	7.4%	5
DDOR_2022_DSP35713_430018	\$	-	\$	-	\$	3,791,648.87	\$	-	\$	-	\$	-	\$	-	2025	7	0.62	1.32	4.72	4.72	4.67	4.62	4.58	4.53	4.48	4.41	7.4%	4
DDOR_2022_8511_543018	\$	-	\$	-	\$	3,787,464.60	\$	-	\$	-	\$	-	\$	-	2025	7	0.00	0.00	0.00	0.87	0.82	0.80	2.42	2.83	3.20	3.43	7.4%	4
DDOR_2022_8502_530023	\$	-	\$	-	\$	3,812,077.00	\$	-	\$	-	\$	-	\$	-	2025	7	2.57	5.53	5.38	5.31	5.02	4.83	4.95	5.26	5.63	5.66	7.4%	4
DDOR_2022_DSP35738_532018	\$	-	\$	-	\$	5,628,574.00	\$	-	\$	-	\$	-	\$	-	2025	7	0.00	0.00	2.80	2.60	2.60	2.50	2.50	2.50	2.50	2.50	7.4%	4
DDOR_2022_DSP35747	\$	126,640.39	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	2026	6	0.00	0.00	0.00	0.00	0.01	0.30	0.60	0.80	1.00	1.00	7.4%	5
DDOR_2022_8505_429067	\$	-	\$	-	\$	3,791,649.00	\$	-	\$	-	\$</																	

Substation																								
Cumulative Deferral Value of Capital Projects												Deferral Value of Avoided Incremental O&M												
#2 Nper	#3 PMT	1	2	3	4	5	6	7	8	9	10	#1 Rate	#3 PMT	1	2	3	4	5	6	7	8	9	10	
Number of no deficiency years after the DER Install yr	Revenue Requirement Cost in Nominal Dollars in Analysis Yr \$'s * RECC	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Discount rate net of O&M inflation	Incremental O&M Cost	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
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[illegible]

0	101708.27	\$	-	\$	-	\$	101,708.3	\$	196,452.2	\$	284,708.7	\$	366,922.0	\$	443,505.8	\$	514,845.7	\$	581,300.7	\$	643,205.2	8.3%	\$	19,743.39	\$	-	\$	-	\$	20,358.64	\$	39,152.66	\$	56,502.31	\$	72,518.57	\$	87,303.94	\$	100,953.01	\$	113,553.10	\$	125,184.84
0	143889.96	\$	143,890.0	\$	277,927.3	\$	402,786.6	\$	519,096.3	\$	627,441.9	\$	728,368.7	\$	822,384.7	\$	909,963.1	\$	991,544.7	\$	1,067,540.1	8.3%	\$	29,327.28	\$	29,327.28	\$	56,400.67	\$	81,393.39	\$	104,465.34	\$	125,764.14	\$	145,426.06	\$	163,576.90	\$	180,332.80	\$	195,800.95	\$	210,080.33
10	19326.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	8.3%	\$	3,938.98	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
0	167744.31	\$	-	\$	167,744.3	\$	324,002.6	\$	469,561.3	\$	605,153.1	\$	731,460.4	\$	849,119.1	\$	958,721.2	\$	1,060,818.5	\$	1,155,924.8	8.3%	\$	33,365.78	\$	-	\$	33,381.66	\$	65,159.42	\$	94,033.38	\$	120,688.29	\$	145,294.69	\$	168,010.01	\$	188,979.59	\$	208,337.59	\$	226,207.37
0	11733.13	\$	11,733.1	\$	22,662.8	\$	42,328.3	\$	51,163.1	\$	59,329.9	\$	67,059.2	\$	74,200.5	\$	80,852.9	\$	87,049.7	\$	92,810.7	8.3%	\$	2,391.42	\$	2,391.42	\$	4,599.04	\$	6,637.01	\$	8,518.35	\$	10,255.10	\$	11,858.38	\$	13,388.45	\$	14,704.76	\$	15,666.07	\$	17,130.45
0	15256.23	\$	-	\$	-	\$	15,256.2	\$	29,467.8	\$	42,706.3	\$	55,038.3	\$	66,525.8	\$	77,226.8	\$	87,195.0	\$	96,480.7	8.3%	\$	2,961.51	\$	-	\$	-	\$	3,053.79	\$	5,872.89	\$	8,475.34	\$	10,877.78	\$	13,095.58	\$	15,142.94	\$	17,032.95	\$	18,777.71
0	20293.73	\$	20,293.7	\$	-	\$	39,197.9	\$	56,807.6	\$	73,211.5	\$	88,492.2	\$	102,726.6	\$	115,986.2	\$	128,338.0	\$	139,844.0	8.3%	\$	4,136.22	\$	4,136.22	\$	7,954.55	\$	11,479.44	\$	14,734.42	\$	17,737.33	\$	20,510.38	\$	23,070.31	\$	25,433.50	\$	27,615.08	\$	29,628.99
0	21351.19	\$	-	\$	21,351.2	\$	41,240.4	\$	59,767.7	\$	77,026.4	\$	93,103.3	\$	108,079.4	\$	122,030.0	\$	135,025.4	\$	147,130.9	8.3%	\$	4,246.94	\$	-	\$	4,312.60	\$	8,293.76	\$	11,968.96	\$	15,361.71	\$	18,493.71	\$	21,385.01	\$	24,054.11	\$	26,518.08	\$	28,792.68
0	363930.42	\$	363,930.4	\$	702,941.2	\$	1,018,738.8	\$	1,312,912.6	\$	1,586,943.3	\$	1,842,210.1	\$	2,079,997.9	\$	2,301,503.6	\$	2,507,842.0	\$	2,700,051.6	8.3%	\$	74,175.36	\$	74,175.36	\$	142,650.12	\$	205,862.39	\$	264,216.59	\$	318,086.10	\$	367,815.57	\$	413,723.18	\$	456,102.64	\$	495,225.12	\$	531,340.91
0	1048020.18	\$	-	\$	-	\$	1,048,020.2	\$	2,024,278.7	\$	2,933,689.4	\$	3,780,829.6	\$	4,569,963.0	\$	5,305,061.8	\$	5,989,825.7	\$	6,627,701.4	8.3%	\$	203,439.46	\$	-	\$	-	\$	209,779.10	\$	403,436.03	\$	582,209.83	\$	747,244.31	\$	899,595.39	\$	1,040,237.82	\$	1,170,071.44	\$	1,289,926.95
0	60207.80	\$	-	\$	60,207.8	\$	116,293.0	\$	168,537.8	\$	217,205.2	\$	262,540.2	\$	304,771.0	\$	344,110.0	\$	380,755.4	\$	413,587.5	8.3%	\$	11,687.41	\$	-	\$	-	\$	12,051.62	\$	23,177.03	\$	33,447.42	\$	42,928.51	\$	51,680.94	\$	59,760.71	\$	67,219.54	\$	74,105.13
1	270867.53	\$	-	\$	252,320.3	\$	487,363.3	\$	706,312.1	\$	910,268.7	\$	1,100,259.7	\$	1,277,241.3	\$	1,442,104.4	\$	1,595,678.7	\$	1,738,737.3	8.3%	\$	55,207.53	\$	-	\$	50,964.66	\$	98,012.52	\$	141,444.62	\$	181,538.82	\$	218,551.66	\$	252,719.85	\$	284,262.80	\$	313,380.53	\$	340,260.93
1	133122.77	\$	-	\$	124,007.4	\$	239,523.5	\$	347,129.9	\$	447,368.1	\$	540,742.6	\$	627,723.4	\$	708,748.4	\$	784,225.3	\$	854,534.0	8.3%	\$	27,132.74	\$	-	\$	25,047.51	\$	48,170.03	\$	69,515.53	\$	89,220.55	\$	107,411.18	\$	124,203.81	\$	139,705.87	\$	154,016.55	\$	167,227.41
1	32900.47	\$	-	\$	30,647.7	\$	59,196.8	\$	85,791.0	\$	110,564.3	\$	133,641.2	\$	155,138.0	\$	175,162.8	\$	193,816.5	\$	211,192.8	8.3%	\$	6,705.79	\$	-	\$	6,190.34	\$	11,904.93	\$	17,180.34	\$	22,050.31	\$	26,546.01	\$	30,696.21	\$	34,527.45	\$	38,064.25	\$	41,329.23
0	197184.01	\$	-	\$	197,184.0	\$	380,866.1	\$	551,970.9	\$	711,359.5	\$	859,834.2	\$	998,142.4	\$	1,126,980.0	\$	1,246,995.8	\$	1,358,793.6	8.3%	\$	39,221.58	\$	-	\$	39,828.01	\$	76,595.12	\$	110,536.56	\$	141,869.50	\$	170,794.41	\$	197,496.34	\$	222,146.15	\$	244,901.55	\$	265,908.13
0	197184.01	\$	-	\$	197,184.0	\$	380,866.1	\$	551,970.9	\$	711,359.5	\$	859,834.2	\$	998,142.4	\$	1,126,980.0	\$	1,246,995.8	\$	1,358,793.6	8.3%	\$	39,221.58	\$	-	\$	39,828.01	\$	76,595.12	\$	110,536.56	\$	141,869.50	\$	170,794.41	\$	197,496.34	\$	222,146.15	\$	244,901.55	\$	265,908.13
0	197184.01	\$	-	\$	197,184.0	\$	380,866.1	\$	551,970.9	\$	711,359.5	\$	859,834.2	\$	998,142.4	\$	1,126,980.0	\$	1,246,995.8	\$	1,358,793.6	8.3%	\$	39,221.58	\$	-	\$	39,828.01	\$	76,595.12	\$	110,536.56	\$	141,869.50	\$	170,794.41	\$	197,496.34	\$	222,146.15	\$	244,901.55	\$	265,908.13
0	698944.67	\$	-	\$	-	\$	698,944.7	\$	1,350,030.1	\$	1,956,533.5	\$	2,521,507.4	\$	3,047,795.6	\$	3,538,047.0	\$	3,994,729.2	\$	4,420,140.7	8.3%	\$	135,677.66	\$	-	\$	-	\$	139,905.69	\$	269,059.19	\$	388,286.85	\$	498,351.50	\$	599,957.35	\$	693,754.47	\$	780,342.99	\$	860,276.92
0	124367.46	\$	-	\$	124,367.5	\$	240,219.0	\$	348,137.9	\$	448,667.1	\$	542,312.7	\$	629,546.1	\$	710,806.3	\$	786,502.4	\$	857,015.3	8.3%	\$	24,737.75	\$	-	\$	25,120.24	\$	48,309.90	\$	69,717.37	\$	89,479.61	\$	107,723.07	\$	124,564.45	\$	140,111.53	\$	154,463.76	\$	167,712.98
1	190610.08	\$	-	\$	-	\$	177,558.3	\$	342,958.6	\$	497,033.4	\$	640,558.1	\$	774,255.2	\$	898,797.5	\$	1,014,812.0	\$	1,122,882.6	8.3%	\$	37,913.97	\$	-	\$	-	\$	35,541.33	\$	68,351.19	\$	98,639.52	\$	126,600.10	\$	152,411.82	\$	176,239.83	\$	198,236.58	\$	216,524.82
0	190610.08	\$	-	\$	190,610.1	\$	368,168.4	\$	533,568.7	\$	687,643.5	\$	831,168.2	\$	964,865.2	\$	1,089,407.6	\$	1,205,422.1	\$	1,313,492.7	8.3%	\$	37,913.97	\$	-	\$	38,500.18	\$	74,041.51	\$	106,851.38	\$	137,139.70	\$	165,100.28	\$	190,912.00	\$	214,740.01	\$	236,736.76	\$	257,043.00
0	190610.08	\$	-	\$	190,610.1	\$	368,168.4	\$	533,568.7	\$	687,643.5	\$	831,168.2	\$	964,865.2	\$	1,089,407.6	\$	1,205,422.1	\$	1,313,492.7	8.3%	\$	37,913.97	\$	-	\$	38,500.18	\$	74,041.51	\$	106,851.38	\$	137,139.70	\$	165,100.28	\$	190,912.00	\$	214,740.01	\$	236,736.76	\$	257,043.00
0	20384.97	\$	-	\$	20,385.0	\$	39,374.1	\$	57,063.0	\$	73,540.7	\$	88,890.1	\$	103,188.4	\$	116,507.7	\$	128,915.0	\$	140,472.7	8.3%	\$	4,054.75	\$	-	\$	4,117.44	\$	7,918.44	\$	11,427.32	\$	14,666.53	\$	17,656.80	\$	20,417.26	\$	22,965.57	\$	25,310.83	\$	27,802.70
0	8751.81	\$	-	\$	8,751.8	\$	16,904.3	\$	24,498.7	\$	31,573.0	\$	38,162.8	\$	44,301.5	\$	50,019.8	\$	55,346.6	\$	60,308.6	8.3%	\$	1,740.81	\$	-	\$	1,767.72	\$	3,399.59	\$	4,906.05	\$	6,296.73	\$	7,580.53	\$	8,765.67	\$	9,859.73	\$	10,869.70	\$	11,802.06
0	330389.80	\$	-	\$	330,389.8	\$	638,156.7	\$	924,849.6	\$	1,191,911.7	\$	1,440,687.1	\$	1,672,428.0	\$	1,888,300.8	\$	2,089,392.0	\$	2,276,713.8	8.3%	\$	65,717.35	\$	-	\$	66,734.45	\$	128,338.23	\$	185,208.49	\$	237,708.10	\$	286,172.96	\$	330,913.14	\$	372,214.90	\$	410,342.49	\$	445,539.86
0	338543.54	\$	-	\$	-	\$	338,543.5	\$	653,905.8	\$	947,674.1	\$	1,221,327.1	\$	1,476,242.0	\$	1,713,702.1	\$	1,934,902.4	\$	2,140,956.4	8.3%	\$	65,717.35	\$	-	\$	67,765.26	\$	130,322.55	\$	188,072.12	\$	241,383.46	\$	290,597.65	\$	336,029.59	\$	377,969.94	\$	416,687.08		
9	784082.36	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	8.3%	\$	155,960.68	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-		
6	4642.13	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	8.3%	\$	923.36	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-		
0	244488.82	\$	-	\$	-	\$	244,488.8	\$	472,236.6	\$	684,389.8	\$	882,016.0	\$	1,066,110.1	\$	1,237,598.6	\$	1,397,344.7	\$	1,546,152.4	8.3%	\$	47,459.65	\$	-	\$	-	\$	48,938.60	\$	94,116.13	\$	135,821.62	\$	174,321.91	\$	209,863.34	\$	242,673.30	\$	272,961.72	\$	300,922.37
0	10458.04	\$	10,458.0	\$	20,200.0	\$	29,278.8	\$	37,728.3	\$	45,603.0	\$	52,938.4	\$	59,771.6	\$	66,136.8	\$	72,066.3	\$	77,589.7	8.3%	\$	2,131.53	\$	2,131.53	\$	4,099.25	\$	5,915.74	\$	7,592.62	\$	9,140.64	\$	10,569.68	\$	11,888.90	\$	13,106.73	\$	14,230.97	\$	15,268.80
0	32146.06	\$	-	\$	32,146.1	\$	62,091.0	\$	89,985.4	\$	115,969.9	\$	140,175.1	\$	162,722.8	\$	183,726.7	\$	203,292.3	\$	221,518.2	8.3%	\$	6,394.13	\$	-	\$	6,492.99	\$	12,486.97	\$	18,020.30	\$	23,128.37	\$	27,843.87	\$	32,196.97	\$	36,				

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Primary Feeder																																Deferral Value of Avoided Incremental O&M											
Cumulative Deferral Value of Capital Projects											#1 Rate	#3 PMT	Deferral Value of Avoided Incremental O&M										#1 Rate	DER Installation Year Reference Index																			
#3 PMT	1	2	3	4	5	6	7	8	9	10			1	2	3	4	5	6	7	8	9	10																					
Revenue Requirement Cost in Nominal Dollars in Analysis Yr \$'s * RECC	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Discount rate net of O&M inflation	Incremental O&M Cost	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Discount rate net or project inflation (%/yr)																				
152625.15	\$ -	\$152,625.1	\$294,799.5	\$427,238.7	\$550,609.3	\$665,532.3	\$772,586.1	\$872,309.6	\$965,204.6	\$1,051,738.8	8.3%	\$26,483.14	\$ -	\$26,892.62	\$51,718.45	\$74,636.35	\$95,792.93	\$115,323.56	\$133,353.21	\$149,997.22	\$165,362.09	\$179,546.12	7.4%	2																			
59208.18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8.3%	\$10,527.20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.4%	1																			
23392.03	\$23,392.0	\$45,182.3	\$65,480.6	\$84,388.9	\$102,002.6	\$118,410.1	\$133,694.2	\$147,931.7	\$161,194.3	\$173,548.8	8.3%	\$4,159.10	\$4,159.10	\$7,998.56	\$11,542.95	\$14,814.93	\$17,835.46	\$20,623.85	\$23,197.94	\$25,574.21	\$27,767.85	\$29,792.91	7.4%	1																			
17373.01	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8.3%	\$30,083.26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.4%	2																			
393879.60	\$393,879.6	\$760,788.9	#####	#####	#####	\$1,993,812.4	\$2,251,168.6	#####	#####	\$2,922,248.8	8.3%	\$70,031.72	#####	\$134,681.30	\$194,362.35	\$249,456.73	\$300,316.94	\$347,268.38	\$390,611.47	\$430,623.50	\$467,560.48	\$501,658.75	7.4%	1																			
492798.92	\$ -	\$492,798.9	\$951,854.2	#####	#####	\$2,148,883.1	\$2,494,540.4	#####	#####	\$3,395,873.9	8.3%	\$85,509.27	\$ -	\$86,831.38	\$166,989.50	\$240,987.22	\$309,298.00	\$372,358.87	\$430,573.33	\$484,313.83	\$533,924.20	\$579,721.86	7.4%	2																			
42507.10	\$ -	\$42,507.1	\$82,103.6	\$118,988.8	\$153,348.3	\$185,355.1	\$215,170.3	\$242,943.9	\$268,815.8	\$292,916.1	8.3%	\$7,375.73	\$ -	\$7,489.77	\$14,403.93	\$20,786.71	\$26,678.96	\$32,118.37	\$37,139.74	\$41,775.21	\$46,054.42	\$50,004.77	7.4%	2																			
24906.81	\$24,906.8	\$48,108.2	\$69,720.8	\$89,853.6	\$108,607.8	\$126,077.9	\$142,351.7	\$157,511.2	\$171,632.7	\$184,787.2	8.3%	\$4,428.43	\$4,428.43	\$8,516.51	\$12,290.42	\$15,774.29	\$18,990.41	\$21,959.37	\$24,700.15	\$27,230.29	\$29,565.99	\$31,722.18	7.4%	1																			
2831.51	\$2,831.5	\$5,469.1	\$7,926.2	\$10,214.9	\$12,347.0	\$14,333.1	\$16,183.1	\$17,906.5	\$19,511.9	\$21,007.4	8.3%	\$503.44	\$503.44	\$968.19	\$1,397.23	\$1,793.29	\$2,158.91	\$2,496.43	\$2,808.02	\$3,095.65	\$3,361.18	\$3,606.31	7.4%	1																			
10045.85	\$10,045.9	\$19,403.8	\$28,121.0	\$36,241.3	\$43,805.6	\$50,851.9	\$57,415.8	\$63,530.2	\$69,225.9	\$74,531.6	8.3%	\$1,786.15	\$1,786.15	\$3,435.03	\$4,957.19	\$6,362.36	\$7,659.55	\$8,857.04	\$9,962.50	\$10,983.00	\$11,925.07	\$12,794.75	7.4%	1																			
102288.05	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8.3%	\$18,186.80	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.4%	1																			
7218.68	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8.3%	\$1,283.48	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.4%	1																			
10779.88	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8.3%	\$1,916.66	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.4%	1																			
161936.48	\$161,936.5	\$312,784.6	\$453,303.6	\$584,200.8	\$706,135.0	\$819,719.9	\$925,527.3	#####	#####	\$1,201,429.8	8.3%	\$28,792.28	#####	\$55,371.78	\$79,908.57	\$102,559.62	\$123,469.88	\$142,773.12	\$160,592.84	\$177,043.06	\$192,229.04	\$206,247.92	7.4%	1																			
127337.51	\$127,337.5	\$245,955.8	\$356,451.8	\$459,381.8	\$555,263.8	\$644,580.5	\$727,781.3	\$805,285.1	\$877,481.9	\$944,735.1	8.3%	\$22,640.59	#####	\$43,541.18	\$62,835.49	\$80,646.98	\$97,089.59	\$112,268.55	\$126,280.95	\$139,216.46	\$151,157.83	\$162,181.48	7.4%	1																			
168748.81	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8.3%	\$29,280.88	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.4%	2																			
5134.06	\$ -	\$5,134.1	\$9,916.6	\$14,371.6	\$18,521.6	\$22,387.4	\$25,988.5	\$29,343.0	\$32,467.9	\$35,378.7	8.3%	\$890.85	\$ -	\$904.62	\$1,739.72	\$2,510.64	\$3,222.32	\$3,879.29	\$4,485.78	\$5,045.66	\$5,562.51	\$6,039.63	7.4%	2																			
3437.62	\$34,375.6	\$66,397.4	\$96,226.6	\$124,013.2	\$149,897.2	\$174,008.8	\$196,469.5	\$217,392.1	\$236,882.1	\$255,037.6	8.3%	\$6,111.98	\$6,111.98	\$11,754.23	\$16,962.86	\$21,771.19	\$26,209.99	\$30,307.65	\$34,090.39	\$37,582.42	\$40,806.07	\$43,781.98	7.4%	1																			
74086.49	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8.3%	\$13,172.56	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.4%	1																			
10106.11	\$10,106.1	\$19,520.2	\$28,289.7	\$36,458.7	\$44,068.4	\$51,157.0	\$57,760.2	\$63,911.3	\$69,641.2	\$74,978.7	8.3%	\$1,796.87	\$1,796.87	\$3,455.64	\$4,986.92	\$6,400.53	\$7,705.49	\$8,910.17	\$10,022.26	\$11,048.88	\$11,996.61	\$12,871.50	7.4%	1																			
257365.39	\$257,365.4	\$497,108.1	\$720,434.7	\$928,469.4	#####	\$1,302,779.6	\$1,470,939.0	#####	#####	\$1,909,430.4	8.3%	\$45,759.52	#####	\$88,002.28	\$126,998.56	\$162,997.85	\$196,230.48	\$226,909.09	\$255,229.95	\$281,374.26	\$305,509.31	\$327,789.50	7.4%	1																			
10390.08	\$10,390.1	\$20,068.7	\$29,084.6	\$37,483.2	\$45,306.6	\$52,594.4	\$59,383.2	\$65,707.1	\$71,598.0	\$77,085.5	8.3%	\$1,847.35	\$1,847.35	\$3,552.73	\$5,127.05	\$6,580.37	\$7,922.01	\$9,160.53	\$10,303.87	\$11,359.34	\$12,333.69	\$13,233.17	7.4%	1																			
41483.33	\$41,483.3	\$80,126.1	\$116,123.0	\$149,654.9	\$180,890.9	\$209,988.0	\$237,092.7	\$262,341.4	\$285,861.3	\$307,770.7	8.3%	\$7,375.73	\$7,375.73	\$14,184.61	\$20,470.21	\$26,272.74	\$31,629.33	\$36,574.24	\$41,139.13	\$45,353.19	\$49,243.39	\$52,834.61	7.4%	1																			
24266.76	\$24,266.8	\$46,871.9	\$67,929.2	\$87,544.6	\$105,816.9	\$122,838.0	\$138,693.6	\$153,463.5	\$167,222.1	\$180,038.5	8.3%	\$4,314.63	\$4,314.63	\$8,297.66	\$11,974.58	\$15,368.93	\$18,502.40	\$21,395.06	\$24,065.41	\$26,530.54	\$28,806.21	\$30,906.99	7.4%	1																			
6223.61	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8.3%	\$1,106.56	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.4%	1																			
10253.54	\$10,253.5	\$19,805.0	\$28,702.4	\$36,990.6	\$44,711.2	\$51,903.3	\$58,602.8	\$64,843.6	\$70,657.1	\$76,072.5	8.3%	\$1,823.08	\$1,823.08	\$3,506.05	\$5,059.67	\$6,493.90	\$7,817.90	\$9,040.15	\$10,168.46	\$11,210.06	\$12,171.61	\$13,059.26	7.4%	1																			
63508.63	\$63,508.6	\$122,668.6	\$177,777.7	\$229,113.3	\$276,933.7	\$321,479.7	\$362,975.5	\$401,629.9	\$437,637.5	\$471,179.6	8.3%	\$11,291.82	#####	\$21,715.84	\$31,338.73	\$40,222.08	\$48,422.71	\$55,993.10	\$62,981.68	\$69,433.17	\$75,388.84	\$80,886.80	7.4%	1																			
7218.68	\$7,218.7	\$13,943.1	\$20,207.0	\$26,042.0	\$31,477.5	\$36,540.8	\$41,257.4	\$45,651.1	\$49,743.9	\$53,556.4	8.3%	\$1,283.48	\$1,283.48	\$2,468.32	\$3,562.10	\$4,571.82	\$5,503.94	\$6,364.43	\$7,158.78	\$7,892.09	\$8,569.04	\$9,193.96	7.4%	1																			
95244.41	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8.3%	\$16,934.44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.4%	1																			
271027.72	\$ -	\$271,027.7	\$523,497.2	\$758,679.2	\$977,757.5	\$1,181,834.7	\$1,371,938.1	#####	#####	\$1,867,650.1	8.3%	\$47,028.07	\$ -	\$47,755.20	\$91,840.27	\$132,537.26	\$170,106.56	\$204,788.55	\$236,805.12	\$266,361.12	\$293,645.65	\$318,833.28	7.4%	2																			
119493.54	\$ -	\$119,433.5	\$230,689.0	\$334,326.5	\$430,867.5	\$520,798.0	\$604,570.8	\$682,607.2	\$755,300.2	\$823,015.7	8.3%	\$20,723.82	\$ -	\$21,044.24	\$40,471.17	\$58,405.07	\$74,960.70	\$90,243.98	\$104,352.70	\$117,377.11	\$129,400.56	\$140,499.97	7.4%	2																			
19225.74	\$19,225.7	\$37,135.0	\$53,818.0	\$69,358.6	\$83,835.1	\$97,320.4	\$109,882.3	\$121,584.0	\$132,484.4	\$142,638.5	8.3%	\$3,418.33	\$3,418.33	\$6,573.96	\$9,487.06	\$12,176.28	\$14,658.83	\$16,950.59	\$19,066.22	\$21,019.25	\$22,822.19	\$24,486.57	7.4%	1																			
3849.94	\$3,849.9	\$7,436.3	\$10,777.0	\$13,889.0	\$16,787.9	\$19,488.4	\$22,093.3	\$24,547.1	\$26,529.9	\$28,563.3	8.3%	\$684.52	\$684.52	\$1,316.43	\$1,899.78	\$2,438.29	\$2,935.42	\$3,394.35	\$3,818.00	\$4,209.09	\$4,570.13	\$4,903.42	7.4%	1																			
4334.78	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8.3%	\$770.72	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.4%	1																			
47406.95	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8.3%	\$8,428.95	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.4%	1																			
7218.68	\$7,218.7	\$13,943.1	\$20,207.0	\$26,042.0	\$31,477.5	\$36,540.8	\$41,257.4	\$45,651.1	\$49,743.9	\$53,556.4	8.3%	\$1,283.48	\$1,283.48	\$2,468.32	\$3,562.10	\$4,571.82	\$5,503.94	\$6,364.43	\$7,158.78	\$7,892.09	\$8,569.04	\$9,193.96	7.4%	1																			
101168.21	\$101,168.2	\$195,409.1	\$283,196.9	\$364,973.7	\$441,150.8	\$511,111.9	\$578,214.9	\$639,798.9	\$697,149.4	\$750,581.3	8.3%	\$17,987.699</																															

54547.89	\$	-	\$	54,547.9	\$	105,360.7	\$	152,694.2	\$	196,786.6	\$	237,859.8	\$	276,120.6	\$	311,761.5	\$	344,962.0	\$	375,889.1	8.3%	\$	9,465.02	\$	-	\$	9,611.36	\$	18,484.06	\$	26,674.87	\$	34,236.18	\$	41,216.39	\$	47,660.14	\$	53,608.68	\$	59,100.05	\$	64,169.39	7.4%	2
87092.27	\$	-	\$	-	\$	-	\$	-	\$	70,398.8	\$	135,977.1	\$	197,065.1	\$	253,970.2	\$	306,978.7	\$	356,357.6	8.3%	\$	15,112.04	\$	-	\$	-	\$	-	\$	12,072.55	\$	23,217.29	\$	33,505.52	\$	43,003.07	\$	51,770.70	\$	59,864.52	7.4%	2		
13126.25	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	8.3%	\$	2,277.64	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
10026.01	\$	-	\$	10,026.0	\$	19,365.5	\$	28,065.5	\$	36,169.8	\$	43,719.1	\$	50,751.5	\$	57,302.4	\$	63,404.7	\$	69,089.2	8.3%	\$	1,739.69	\$	-	\$	1,766.59	\$	3,397.41	\$	4,902.89	\$	6,292.68	\$	7,575.66	\$	8,760.03	\$	9,853.38	\$	10,862.71	\$	11,794.46	7.4%	2
69640.86	\$	-	\$	69,640.9	\$	134,513.2	\$	194,943.4	\$	251,235.9	\$	303,673.7	\$	352,521.0	\$	398,023.5	\$	440,410.3	\$	479,894.7	8.3%	\$	12,083.91	\$	-	\$	12,270.75	\$	23,598.46	\$	34,055.59	\$	43,709.06	\$	52,620.64	\$	60,847.33	\$	68,441.78	\$	75,452.57	\$	81,924.55	7.4%	2
3658.25	\$	-	\$	3,658.2	\$	7,066.0	\$	10,240.4	\$	13,197.5	\$	15,952.0	\$	18,518.0	\$	20,908.2	\$	23,134.8	\$	25,208.9	8.3%	\$	634.77	\$	-	\$	644.58	\$	1,239.63	\$	1,788.95	\$	2,296.04	\$	2,764.17	\$	3,196.32	\$	3,595.26	\$	3,963.54	\$	4,303.51	7.4%	2
9061.51	\$	-	\$	9,061.5	\$	17,502.6	\$	25,365.6	\$	32,690.2	\$	39,513.3	\$	45,869.2	\$	51,789.9	\$	57,305.2	\$	62,442.8	8.3%	\$	1,572.33	\$	-	\$	1,596.64	\$	3,070.58	\$	4,431.24	\$	5,687.33	\$	6,846.88	\$	7,917.32	\$	8,905.49	\$	9,817.72	\$	10,659.84	7.4%	2
20055.75	\$	-	\$	-	\$	18,682.5	\$	36,085.7	\$	52,297.2	\$	67,398.7	\$	81,466.1	\$	94,570.3	\$	106,777.2	\$	118,148.3	8.3%	\$	3,480.02	\$	-	\$	-	\$	3,262.25	\$	6,273.78	\$	9,053.86	\$	11,602.29	\$	13,989.48	\$	16,176.59	\$	18,195.62	\$	20,059.47	7.4%	2
28762.54	\$	-	\$	28,762.5	\$	55,555.6	\$	80,514.1	\$	103,763.5	\$	125,421.0	\$	145,955.9	\$	164,388.6	\$	181,894.9	\$	198,202.5	8.3%	\$	4,990.81	\$	-	\$	5,067.97	\$	9,746.46	\$	14,065.38	\$	18,052.39	\$	21,732.98	\$	25,130.70	\$	28,267.30	\$	31,162.85	\$	33,835.86	7.4%	2
10022.66	\$	-	\$	10,022.7	\$	19,359.9	\$	28,056.1	\$	36,157.7	\$	43,704.5	\$	50,734.5	\$	57,283.2	\$	63,383.5	\$	69,061.6	8.3%	\$	1,739.11	\$	-	\$	1,766.00	\$	3,396.27	\$	4,901.25	\$	6,290.57	\$	7,573.12	\$	8,757.10	\$	9,850.09	\$	10,859.07	\$	11,790.52	7.4%	2
12042.24	\$	-	\$	12,042.2	\$	23,259.9	\$	33,709.5	\$	43,443.5	\$	52,511.0	\$	60,957.6	\$	68,825.9	\$	76,155.4	\$	82,983.0	8.3%	\$	2,089.54	\$	-	\$	2,121.85	\$	4,080.63	\$	5,888.87	\$	7,558.14	\$	9,099.12	\$	10,521.67	\$	11,834.90	\$	13,047.20	\$	14,166.33	7.4%	2
55167.29	\$	-	\$	55,167.3	\$	106,557.1	\$	154,428.0	\$	199,021.1	\$	240,560.7	\$	279,255.9	\$	315,301.6	\$	348,879.1	\$	380,157.4	8.3%	\$	9,572.49	\$	-	\$	9,720.50	\$	18,693.95	\$	26,977.76	\$	34,624.94	\$	41,684.40	\$	48,201.33	\$	54,217.41	\$	59,771.13	\$	64,899.04	7.4%	2
3249.31	\$	-	\$	3,249.3	\$	6,276.1	\$	9,095.7	\$	11,722.2	\$	14,168.8	\$	16,447.9	\$	18,571.0	\$	20,548.7	\$	22,390.9	8.3%	\$	563.81	\$	-	\$	572.53	\$	1,101.06	\$	1,588.97	\$	2,039.38	\$	2,455.18	\$	2,839.02	\$	3,193.36	\$	3,520.47	\$	3,822.44	7.4%	2
3280.77	\$	-	\$	3,280.8	\$	6,369.9	\$	9,183.8	\$	11,835.7	\$	14,306.0	\$	16,607.2	\$	18,750.8	\$	20,747.7	\$	22,607.8	8.3%	\$	569.27	\$	-	\$	578.07	\$	1,111.72	\$	1,604.35	\$	2,059.13	\$	2,478.95	\$	2,866.51	\$	3,224.28	\$	3,554.56	\$	3,859.45	7.4%	2
3211.86	\$	-	\$	3,211.9	\$	6,203.8	\$	8,990.8	\$	11,587.1	\$	14,005.5	\$	16,258.4	\$	18,357.0	\$	20,311.9	\$	22,132.9	8.3%	\$	557.31	\$	-	\$	565.93	\$	1,088.37	\$	1,570.65	\$	2,015.87	\$	2,426.88	\$	2,806.30	\$	3,156.55	\$	3,479.89	\$	3,778.38	7.4%	2
3451.87	\$	-	\$	3,451.9	\$	6,667.4	\$	9,662.7	\$	12,452.9	\$	15,052.1	\$	17,473.3	\$	19,728.7	\$	21,829.7	\$	23,786.8	8.3%	\$	598.96	\$	-	\$	608.22	\$	1,169.70	\$	1,688.03	\$	2,166.52	\$	2,608.23	\$	3,016.00	\$	3,392.44	\$	3,739.94	\$	4,060.73	7.4%	2
6667.36	\$	-	\$	6,667.4	\$	12,878.2	\$	18,663.7	\$	24,053.1	\$	29,073.5	\$	33,750.0	\$	38,106.4	\$	42,164.5	\$	45,944.7	8.3%	\$	1,156.90	\$	-	\$	1,174.79	\$	2,259.30	\$	3,260.45	\$	4,184.67	\$	5,037.85	\$	5,825.47	\$	6,552.56	\$	7,223.76	\$	7,843.39	7.4%	2
3753.91	\$	-	\$	3,753.9	\$	7,250.8	\$	10,508.2	\$	13,542.6	\$	16,369.2	\$	19,002.2	\$	21,455.0	\$	23,739.8	\$	25,868.1	8.3%	\$	651.37	\$	-	\$	661.44	\$	1,272.05	\$	1,835.73	\$	2,356.08	\$	2,836.45	\$	3,279.90	\$	3,689.27	\$	4,067.18	\$	4,416.04	7.4%	2
3451.87	\$	-	\$	3,451.9	\$	6,667.4	\$	9,662.7	\$	12,452.9	\$	15,052.1	\$	17,473.3	\$	19,728.7	\$	21,829.7	\$	23,786.8	8.3%	\$	598.96	\$	-	\$	608.22	\$	1,169.70	\$	1,688.03	\$	2,166.52	\$	2,608.23	\$	3,016.00	\$	3,392.44	\$	3,739.94	\$	4,060.73	7.4%	2
2884.80	\$	-	\$	2,884.8	\$	5,572.1	\$	8,075.3	\$	10,407.2	\$	12,579.3	\$	14,602.8	\$	16,487.7	\$	18,243.5	\$	19,879.1	8.3%	\$	500.56	\$	-	\$	508.30	\$	977.54	\$	1,410.72	\$	1,810.60	\$	2,179.75	\$	2,520.53	\$	2,835.12	\$	3,125.54	\$	3,393.63	7.4%	2
47452.56	\$	-	\$	47,452.6	\$	91,655.9	\$	132,832.4	\$	171,189.5	\$	206,920.1	\$	240,204.1	\$	271,209.0	\$	300,090.9	\$	326,995.2	8.3%	\$	8,233.85	\$	-	\$	8,361.16	\$	16,079.74	\$	23,205.12	\$	29,782.60	\$	35,855.15	\$	41,460.73	\$	46,635.51	\$	51,412.59	\$	55,822.53	7.4%	2
49503.88	\$	-	\$	49,503.9	\$	95,618.0	\$	138,574.8	\$	178,589.8	\$	215,865.0	\$	250,587.8	\$	282,933.1	\$	313,063.5	\$	341,130.9	8.3%	\$	8,589.79	\$	-	\$	8,722.60	\$	16,774.85	\$	24,208.25	\$	31,070.38	\$	37,405.13	\$	43,253.03	\$	48,651.51	\$	53,635.10	\$	58,235.68	7.4%	2
9246.04	\$	-	\$	9,246.0	\$	17,859.9	\$	25,882.1	\$	33,355.9	\$	40,318.0	\$	46,803.3	\$	52,844.5	\$	58,472.1	\$	63,714.4	8.3%	\$	1,604.35	\$	-	\$	1,629.16	\$	3,133.11	\$	4,521.47	\$	5,803.14	\$	6,986.30	\$	8,078.54	\$	9,086.84	\$	10,017.64	\$	10,876.91	7.4%	2
28354.51	\$	-	\$	28,354.5	\$	54,767.5	\$	79,371.9	\$	102,291.5	\$	123,641.8	\$	143,530.1	\$	162,056.6	\$	179,314.5	\$	195,390.7	8.3%	\$	4,920.01	\$	-	\$	4,996.08	\$	9,608.19	\$	13,865.85	\$	17,796.29	\$	21,424.67	\$	24,774.19	\$	27,866.30	\$	30,720.76	\$	33,355.85	7.4%	2
24592.90	\$	-	\$	24,592.9	\$	47,501.8	\$	68,842.1	\$	88,721.1	\$	107,239.0	\$	124,488.9	\$	140,557.6	\$	155,526.0	\$	169,469.5	8.3%	\$	4,267.30	\$	-	\$	4,333.28	\$	8,333.53	\$	12,026.35	\$	15,435.37	\$	18,582.39	\$	21,487.56	\$	24,169.45	\$	26,645.23	\$	28,930.74	7.4%	2
72317.47	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	8.3%	\$	12,548.35	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.4%	2		
11583.79	\$	-	\$	11,583.8	\$	22,253.1	\$	32,355.0	\$	41,679.9	\$	50,401.0	\$	58,503.3	\$	66,604.4	\$	73,954.3	\$	79,487.1	8.3%	\$	2,005.82	\$	-	\$	20,365.91	\$	39,166.64	\$	56,522.48	\$	72,544.46	\$	87,335.11	\$	100,989.05	\$	113,593.65	\$	125,229.54	\$	135,971.18	7.4%	2
19780.01	\$	-	\$	19,780.0	\$	38,205.6	\$	55,369.5	\$	71,358.2	\$	86,252.1	\$	100,126.1	\$	113,050.1	\$	125,089.2	\$	136,303.9	8.3%	\$	3,432.18	\$	-	\$	3,485.25	\$	6,702.64	\$	9,672.77	\$	12,414.63	\$	14,945.77	\$	17,282.39	\$	19,439.43	\$	21,430.70	\$	23,268.93	7.4%	2
18492.07	\$	-	\$	18,492.1	\$	35,717.9	\$	51,764.3	\$	66,711.9	\$	80,635.9	\$	93,606.6	\$	105,689.1	\$	116,944.2	\$	127,428.7	8.3%	\$	3,208.70	\$	-	\$	3,258.31	\$	6,266.21	\$	9,042.94	\$	11,606.28	\$	13,972.61	\$	16,157.08	\$	18,173.67	\$	20,035.28	\$	21,753.82	7.4%	2
46854.38	\$	-	\$	46,854.4	\$	90,500.5	\$	131,158.0	\$	169,031.5	\$	204,311.7	\$	237,176.1	\$	267,790.2	\$	296,308.1	\$	322,873.4	8.3%	\$	8,130.06	\$	-	\$	8,255.76	\$	15,877.04	\$	22,912.60	\$	29,407.46	\$	35,403.17	\$	40,938.09	\$	46,047.63	\$	50,764.49	\$	55,118.85	7.4%	2
121714.81	\$	-	\$	121,714.8	\$	235,095.4	\$	340,712.4	\$	439,097.4	\$	530,745.7	\$	616,118.4	\$	695,645.5	\$	769,727.0	\$	838,735.9	8.3%	\$	21,119.66	\$	-	\$	21,446.20	\$	41,244.20	\$	59,520.65	\$	76,392.51	\$	91,967.71	\$	106,345.91	\$	119,619.10	\$	131,872.21	\$	143,183.62	7.4%	2
45465.80	\$	-	\$	45,465.8	\$	87,818.4	\$	127,271.0	\$	164,022.1	\$	198,256.7	\$	2																															

[illegible]

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[illegible]

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[illegible]

[illegible]

[illegible]

[illegible]

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Incremental O&M						Deferral Values										Final				
						1	2	3	4	5	6	7	8	9	10	Deferral Value	Max Need during Deferral Period(MW)	LNBA Value	LNBA Unit	
5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10					
2026	2027	2028	2029	2030	2031	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Deferral Value	Max Need during Deferral Period(MW)	LNBA Value	LNBA Unit	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 179,517.76	\$ 346,517.96	\$ 501,875.04	\$ 646,402.23	\$ 780,855.86	\$ 905,939.31	\$ 1,022,306.78	\$ 1,130,566.69	\$ 1,231,284.91	\$ 1,231,284.91	\$ 1.34	102096.59	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	0.00	\$/MW-year
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,551.13	\$ 53,180.89	\$ 77,023.52	\$ 99,203.86	\$ 119,838.01	\$ 139,033.96	\$ 156,892.13	\$ 173,505.92	\$ 188,962.20	\$ 203,341.74	\$ 203,341.74	\$ 1.50	13556.12	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	0.00	\$/MW-year
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 486,532.10	\$ 939,130.72	#####	\$ 1,751,845.90	#####	\$ 2,455,191.34	\$ 2,770,538.76	\$ 3,063,910.18	\$ 3,336,839.80	\$ 3,590,754.53	\$ 3,590,754.53	\$ 1.11	323491.40	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 579,630.30	#####	\$ 1,620,463.51	#####	\$ 2,521,241.98	\$ 2,925,113.77	\$ 3,300,843.23	\$ 3,650,394.84	\$ 3,975,595.72	\$ 3,975,595.72	\$ 8.21	53804.25	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 49,996.87	\$ 96,507.52	\$ 139,775.48	\$ 180,027.25	\$ 217,473.46	\$ 252,310.02	\$ 284,719.12	\$ 314,870.21	\$ 342,920.90	\$ 342,920.90	\$ 0.93	40823.92	\$/Vpu-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,335.24	\$ 56,624.68	\$ 82,011.26	\$ 105,627.91	\$ 127,598.25	\$ 148,037.25	\$ 167,051.85	\$ 184,741.48	\$ 201,198.64	\$ 216,509.35	\$ 216,509.35	\$ 4.69	4616.40	\$/MW-year	
5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10					
2026	2027	2028	2029	2030	2031	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Deferral Value	Max Need during Deferral Period(MW)	LNBA Value	LNBA Unit	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 179,517.76	\$ 346,517.96	\$ 501,875.04	\$ 646,402.23	\$ 780,855.86	\$ 905,939.31	\$ 1,022,306.78	\$ 1,130,566.69	\$ 1,231,284.91	\$ 1,231,284.91	\$ 1.34	102096.59	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	0.00	\$/MW-year
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,551.13	\$ 53,180.89	\$ 77,023.52	\$ 99,203.86	\$ 119,838.01	\$ 139,033.96	\$ 156,892.13	\$ 173,505.92	\$ 188,962.20	\$ 203,341.74	\$ 203,341.74	\$ 1.50	13556.12	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	0.00	\$/MW-year
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 486,532.10	\$ 939,130.72	#####	\$ 1,751,845.90	#####	\$ 2,455,191.34	\$ 2,770,538.76	\$ 3,063,910.18	\$ 3,336,839.80	\$ 3,590,754.53	\$ 3,590,754.53	\$ 1.11	323491.40	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 579,630.30	#####	\$ 1,620,463.51	#####	\$ 2,521,241.98	\$ 2,925,113.77	\$ 3,300,843.23	\$ 3,650,394.84	\$ 3,975,595.72	\$ 3,975,595.72	\$ 8.21	53804.25	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 49,996.87	\$ 96,507.52	\$ 139,775.48	\$ 180,027.25	\$ 217,473.46	\$ 252,310.02	\$ 284,719.12	\$ 314,870.21	\$ 342,920.90	\$ 342,920.90	\$ 0.93	40823.92	\$/Vpu-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,335.24	\$ 56,624.68	\$ 82,011.26	\$ 105,627.91	\$ 127,598.25	\$ 148,037.25	\$ 167,051.85	\$ 184,741.48	\$ 201,198.64	\$ 216,509.35	\$ 216,509.35	\$ 4.69	4616.40	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,334.95	\$ 6,437.33	\$ 9,323.38	\$ 12,008.22	\$ 14,505.90	\$ 16,829.49	\$ 18,991.15	\$ 21,002.18	\$ 22,873.10	\$ 24,613.68	\$ 24,613.68	\$ 3.11	791.44	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,832.00	\$ 22,838.86	\$ 33,078.22	\$ 42,603.70	\$ 51,465.16	\$ 59,708.98	\$ 67,378.28	\$ 74,513.18	\$ 81,150.97	\$ 87,326.35	\$ 87,326.35	\$ 1.11	7867.24	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	0.00	\$/MW-year
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	0.00	\$/MW-year
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	0.00	\$/MW-year
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 190,728.75	\$ 368,156.37	\$ 533,212.17	\$ 686,760.41	\$ 829,604.86	\$ 962,493.02	\$ 1,086,120.12	\$ 1,201,132.71	\$ 1,308,132.14	\$ 1,407,677.69	\$ 1,407,677.69	\$ 0.20	703838.84	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 149,978.10	\$ 289,496.95	\$ 419,287.31	\$ 540,028.80	\$ 652,353.43	\$ 756,849.03	\$ 854,062.25	\$ 944,501.52	\$ 1,028,639.70	\$ 1,106,916.58	\$ 1,106,916.58	\$ 1.00	110691.66	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	0.00	\$/MW-year
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,038.68	\$ 11,656.29	\$ 16,882.24	\$ 21,743.90	\$ 26,266.70	\$ 30,474.30	\$ 34,388.71	\$ 38,030.39	\$ 41,418.38	\$ 41,418.38	\$ 8.58	536.16	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,487.60	\$ 78,151.65	\$ 113,189.43	\$ 145,784.41	\$ 176,107.20	\$ 204,316.49	\$ 230,559.85	\$ 254,974.54	\$ 277,688.21	\$ 298,819.58	\$ 298,819.58	\$ 0.98	30491.79	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	0.00	\$/MW-year
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,902.98	\$ 22,975.86	\$ 33,276.65	\$ 42,859.27	\$ 51,773.89	\$ 60,067.16	\$ 67,782.46	\$ 74,960.16	\$ 81,637.77	\$ 87,850.19	\$ 87,850.19	\$ 6.40	1372.66	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 303,124.91	\$ 585,110.34	\$ 847,433.26	\$ 1,091,467.24	#####	\$ 1,529,688.65	\$ 1,726,169.00	\$ 1,908,958.33	\$ 2,079,012.35	\$ 2,237,219.93	\$ 2,237,219.93	\$ 6.52	34313.19	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,237.43	\$ 23,621.45	\$ 34,211.66	\$ 44,063.54	\$ 53,228.65	\$ 61,754.95	\$ 69,687.04	\$ 77,066.41	\$ 83,931.65	\$ 90,318.64	\$ 90,318.64	\$ 1.90	4753.61	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 48,859.06	\$ 94,310.76	\$ 136,593.16	\$ 175,927.67	\$ 212,520.19	\$ 246,562.20	\$ 278,231.80	\$ 307,694.62	\$ 335,104.70	\$ 360,605.33	\$ 360,605.33	\$ 0.93	38984.36	\$/Vpu-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,581.39	\$ 55,169.55	\$ 79,903.75	\$ 102,913.51	\$ 124,319.26	\$ 144,233.02	\$ 162,758.99	\$ 179,994.03	\$ 196,022.28	\$ 210,945.54	\$ 210,945.54	\$ 0.40	52736.38	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	0.00	\$/MW-year
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,076.62	\$ 23,311.03	\$ 33,762.07	\$ 43,484.48	\$ 52,529.15	\$ 60,943.40	\$ 68,771.25	\$ 76,053.65	\$ 82,828.67	\$ 89,131.72	\$ 89,131.72	\$ 0.10	89131.72	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 74,800.45	\$ 144,384.44	\$ 209,116.41	\$ 269,335.33	\$ 325,356.40	\$ 377,472.80	\$ 425,957.17	\$ 471,063.08	\$ 513,026.37	\$ 552,066.38	\$ 552,066.38	\$ 0.20	276033.19	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,502.16	\$ 16,411.39	\$ 23,769.12	\$ 30,613.87	\$ 36,981.48	\$ 42,905.26	\$ 48,416.22	\$ 53,543.16	\$ 58,312.89	\$ 62,750.36	\$ 62,750.36	\$ 0.30	20916.79	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	0.00	\$/MW-year
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 318,782.92	\$ 615,337.48	\$ 891,216.50	#####	\$ 1,386,623.29	\$ 1,608,743.20	\$ 1,815,385.49	\$ 2,007,630.59	\$ 2,186,483.35	\$ 2,186,483.35	\$ 8.44	28784.67	\$/MW-year		
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 140,477.78	\$ 271,160.21	\$ 392,731.56	\$ 505,828.22	\$ 611,042.02	\$ 708,923.39	\$ 799,984.26	\$ 884,700.74	\$ 963,515.62	\$ 963,515.62	\$ 1.78	60144.55	\$/MW-year		
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,644.07	\$ 43,708.98	\$ 63,305.06	\$ 81,534.91	\$ 98,493.97	\$ 114,270.98	\$ 128,948.47	\$ 142,603.22	\$ 155,306.62	\$ 167,125.06	\$ 167,125.06	\$ 3.66	4566.26	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,534.46	\$ 8,752.70	\$ 12,676.80	\$ 16,327.32	\$ 19,723.36	\$ 22,882.70	\$ 25,821.86	\$ 28,556.22	\$ 31,100.07	\$ 33,466.70	\$ 33,466.70	\$ 2.72	1230.39	\$/MW-year	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	0.00	\$/MW-year
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	0.00	\$/MW-year

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	110451.66 \$/You-year
	1369.75 \$/MW-year
	0.00 \$/MW-year
03	8069.91 \$/MW-year
50	6511.26 \$/MW-year
55	5794.83 \$/MW-year
56	22830.25 \$/MW-year
91	5659.70 \$/MW-year
90	29618.63 \$/MW-year
51	26257.96 \$/MW-year
51	1427.83 \$/MW-year
91	10365.37 \$/MW-year
31	3121.24 \$/MW-year
31	22493.07 \$/MW-year
30	20999.35 \$/MW-year
54	49805.72 \$/MW-year
17	45091.58 \$/MW-year
16	37172.69 \$/MW-year
17	27369.88 \$/MW-year
37	36594.70 \$/MW-year
48	90796.55 \$/MW-year
19	16132.01 \$/MW-year
48	4744.74 \$/MW-year
30	6163.31 \$/MW-year
69	87865.83 \$/MW-year
07	111293.76 \$/MW-year
	0.00 \$/MW-year
20	5611.70 \$/MW-year
75	12916.98 \$/MW-year
95	495.25 \$/MW-year
66	650.90 \$/MW-year
56	50716.44 \$/MW-year
59	15759.76 \$/MW-year
28	58043.49 \$/MW-year
46	3514.40 \$/MW-year
46	32627.34 \$/MW-year
59	42161.97 \$/MW-year
59	193013.76 \$/MW-year
08	433.19 \$/MW-year
57	15047.86 \$/MW-year
00	69220.05 \$/MW-year
42	432.55 \$/MW-year
42	18897.95 \$/MW-year
73	151676.77 \$/MW-year
	0.00 \$/MW-year
94	132400.043 \$/You-year
33	101439.48 \$/MW-year
63	197143.85 \$/MW-year
07	40591.58 \$/MW-year
17	17193.23 \$/MW-year
41	1842.48 \$/MW-year
06	94842.55 \$/MW-year
00	886.57 \$/MW-year
91	90815.80 \$/You-year
33	116309.86 \$/You-year
56	173575.89 \$/MW-year
57	730.32 \$/MW-year
57	53516.17 \$/MW-year
57	1717.62 \$/MW-year
62	97467.66 \$/MW-year
	0.00 \$/MW-year
41	2663.24 \$/MW-year
	0.00 \$/MW-year
23	3884.27 \$/MW-year
	0.00 \$/MW-year
23	14718.67 \$/MW-year
	0.00 \$/MW-year
03	0.00 \$/MW-year
	0.00 \$/MW-year
	0.00 \$/MW-year
48	977.64 \$/MW-year
20	15079.73 \$/MW-year
20	630.74 \$/MW-year
	0.00 \$/MW-year
81	4206.12 \$/MW-year
31	22650.50 \$/MW-year
91	15364.94 \$/You-year
39	1426.46 \$/MW-year
	0.00 \$/MW-year
24	2150.48 \$/MW-year
	0.00 \$/MW-year

General Inputs

First load forecast year	2022
Discount Rate (%/yr)	10.00%
Cost Year Basis	2022

Parameters	Substation	Substation Bank	Primary Feeder	Poles and towers	Capacitors	Protection equipment	IT
Revenue Requirement Multiplier	1.12	1.17	1.17	1.17	1.17	1.15	1.32
Equipment Inflation (%/yr)	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	1.0%
O&M Inflation (%/yr)	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.8%
O&M Factor	1.6%	1.6%	1.6%	1.6%	1.6%	1.6%	1.6%
Book Life (yrs)	67	67	33	55	33	49	11
RECC	0.069	0.069	0.076	0.070	0.076	0.071	0.134
Discount rate net or project inflation (%/yr)	7.4%	7.4%	7.4%	7.4%	7.4%	7.4%	8.0%
Discount rate net of O&M inflation (%/yr)	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.0%

Project Inputs and LNBA Calculation

										Capital Cost											Project Information		Cumulative MW Reduction Needed for Deferral											Cumulative Deferral Value of Capital Projects										
Project ID		Substation	Substation Bank	Primary Feeder	Poles and towers	Capacitors	Protection equipment	IT	Operating Year / Install Year	Deferral Period	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	#1 Rate	#2.1	#2 Nper	#3 PMT	1	2	3	4	5	6														
											Discount rate net or project inflation (%/yr)	DER Installation Year Reference Index	Number of no deficiency years after the DER install yr	Revenue Requirement Cost in Nominal Dollars in Analysis Yr \$'s * RECC	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2022	2023	2024	2025	2026	2027														
DDOR 2022 05P26358 688019		\$ 332,149.09	\$ -	\$ 3,373,515.00	\$ -	\$ -	\$ -	\$ -	2026	6	0.00	0.00	0.00	0.00	2.65	3.72	3.67	3.65	3.63	3.61	7.4%	5	0		28266.36	\$ -	\$ -	\$ -	\$ -	\$ 28,266.4	\$ 54,597.2													
DDOR 2022 8425		\$ 668,980.46	\$ -	\$ 24,583,889.78	\$ -	\$ -	\$ -	\$ 104,287.40	2026	6	0.00	0.00	0.00	0.00	6.30	21.90	21.90	21.80	21.80	21.70	7.4%	5	0		56931.19	\$ -	\$ -	\$ -	\$ -	\$ 56,931.2	\$ 109,964.1													
DDOR 2022 8325 339553		\$ 410,187.84	\$ -	\$ 3,373,632.56	\$ -	\$ -	\$ -	\$ 3,793.82	2025	7	0.00	0.00	0.00	0.00	5.31	8.89	16.78	16.72	16.82	16.69	7.4%	4	0		34066.83	\$ -	\$ -	\$ 34,066.8	\$ 65,801.0	\$ 95,362.2	\$ -													
DDOR 2022 4800		\$ 31,363,342.20	\$ -	\$ 100,373,070.37	\$ -	\$ -	\$ -	\$ 5,531,311.43	2027	5	0.00	0.00	0.00	0.00	0.00	0.00	1.22	22.14	38.14	55.30	7.4%	6	1		2734935.27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 8256		\$ 208,550,005.46	\$ -	\$ 123,145,043.25	\$ -	\$ -	\$ -	\$ 1,745,413.30	2028	4	6.21	9.93	33.78	56.02	80.05	80.04	80.24	80.14	80.22	80.26	7.4%	7	0		18634717.46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 6092		\$ 414,554,736.51	\$ -	\$ 104,351,279.77	\$ -	\$ -	\$ -	\$ 5,813,562.72	2029	3	205.30	218.60	225.00	228.10	237.40	245.70	256.40	265.40	275.40	286.30	7.4%	8	0		37956169.67	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 8469 577046		\$ 1,643,841.72	\$ -	\$ 3,383,332.56	\$ -	\$ -	\$ -	\$ 3,804.72	2025	7	0.00	0.00	0.00	1.21	7.58	8.92	10.84	12.87	14.22	15.68	7.4%	4	0		136523.98	\$ -	\$ -	\$ 136,524.0	\$ 263,699.7	\$ 382,167.2	\$ -													
DDOR 2022 8481		\$ 3,353,389.66	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2025	7	0.00	0.52	1.57	3.04	3.50	4.35	5.65	6.78	7.96	8.39	7.4%	4	0		278504.97	\$ -	\$ -	\$ 278,505.0	\$ 537,939.7	\$ 779,610.1	\$ -													
DDOR 2022 8476		\$ 1,488,136.58	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2025	7	0.00	0.00	0.57	1.17	1.07	1.77	1.97	1.77	1.57	1.27	7.4%	4	0		123592.39	\$ -	\$ -	\$ 123,592.4	\$ 238,722.0	\$ 345,968.2	\$ -													
DDOR 2022 05P4759 334554		\$ 215,726.79	\$ -	\$ 2,563,027.34	\$ -	\$ -	\$ -	\$ 3,081.70	2026	6	1.39	1.69	1.93	2.37	2.91	3.37	3.55	3.55	3.47	3.52	7.4%	4	0		17916.49	\$ -	\$ -	\$ 17,916.5	\$ 34,606.2	\$ 50,153.1	\$ -													
DDOR 2022 TSP 5TV35570		\$ -	\$ -	\$ -	\$ -	\$ 1,555,391.13	\$ -	\$ -	2026	6	0.00	0.00	0.00	0.00	70.00	70.00	70.00	70.00	70.00	70.00	7.4%	5	0		0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 6055		\$ 1,127,004.43	\$ -	\$ 4,949,981.67	\$ -	\$ -	\$ -	\$ -	2025	7	0.20	0.50	0.60	0.50	0.40	0.30	0.60	1.10	1.50	1.50	7.4%	4	0		93599.72	\$ -	\$ -	\$ 93,599.7	\$ 180,790.3	\$ 262,010.7	\$ -													
DDOR 2022 6871		\$ 5,473,418.57	\$ -	\$ 24,120,362.58	\$ -	\$ -	\$ -	\$ 2,398,975.25	2026	6	14.00	17.50	19.00	19.00	19.00	19.00	19.00	19.50	20.00	21.00	7.4%	5	0		465795.71	\$ -	\$ -	\$ -	\$ -	\$ 465,795.7	\$ 899,696.8													
DDOR 2022 05P35666		\$ 3,667,334.09	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2025	7	6.55	9.64	11.42	13.03	14.00	19.25	19.60	20.09	20.64	21.12	7.4%	4	0		304578.62	\$ -	\$ -	\$ 304,578.6	\$ 588,301.7	\$ 852,597.2	\$ -													
DDOR 2022 6698		\$ 66,124.24	\$ -	\$ 12,397,542.88	\$ -	\$ -	\$ -	\$ 3,098.51	2026	6	0.00	0.00	0.00	0.00	1.70	5.60	8.80	10.80	13.00	13.20	7.4%	4	0		5627.27	\$ -	\$ -	\$ 5,627.3	\$ 10,869.2	\$ -	\$ -													
DDOR 2022 8509		\$ -	\$ -	\$ 7,228,868.08	\$ -	\$ -	\$ -	\$ -	2026	6	0.00	0.00	0.00	0.00	0.00	3.40	1.70	3.30	3.50	3.80	7.4%	5	0		0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 05P35713 430018		\$ -	\$ -	\$ 3,791,648.87	\$ -	\$ -	\$ -	\$ -	2025	7	0.62	1.32	4.72	4.72	4.67	4.62	4.58	4.53	4.48	4.41	7.4%	4	0		0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 8511 543018		\$ -	\$ -	\$ 3,787,464.60	\$ -	\$ -	\$ -	\$ -	2025	7	0.00	0.00	0.00	0.87	0.82	0.80	2.42	2.83	3.20	3.43	7.4%	4	0		0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 8502 530023		\$ -	\$ -	\$ 3,812,077.00	\$ -	\$ -	\$ -	\$ -	2025	7	2.57	5.53	5.38	5.31	5.02	4.83	4.95	5.26	5.63	5.66	7.4%	4	0		0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 05P35738 532018		\$ -	\$ -	\$ 5,628,574.00	\$ -	\$ -	\$ -	\$ -	2025	7	0.00	0.00	2.80	2.60	2.60	2.50	2.50	2.50	2.50	2.50	7.4%	4	0		0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 05P35747		\$ 126,640.39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2026	6	0.00	0.00	0.00	0.00	0.01	0.30	0.60	0.80	1.00	1.00	7.4%	5	0		10777.28	\$ -	\$ -	\$ -	\$ -	\$ 10,777.3	\$ 20,816.6													
DDOR 2022 8505 429067		\$ -	\$ -	\$ 3,791,649.00	\$ -	\$ -	\$ -	\$ -	2025	7	1.70	4.20	4.10	4.00	4.00	3.90	4.00	4.20	4.40	4.60	7.4%	4	0		0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 8068		\$ 4,962,838.89	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 298,272.34	2025	7	6.60	7.60	8.10	7.90	7.80	7.50	7.60	7.90	8.20	8.50	7.4%	4	0		412172.59	\$ -	\$ -	\$ 412,172.6	\$ 796,122.3	\$ 1,153,781.6	\$ -													
DDOR 2022 06328 459030		\$ 201,927.72	\$ -	\$ 6,999,656.16	\$ -	\$ -	\$ -	\$ -	2026	6	0.00	0.00	0.00	0.00	6.04	16.25	9.75	14.36	13.42	12.10	7.4%	5	0		17184.34	\$ -	\$ -	\$ -	\$ -	\$ 17,184.3	\$ 33,192.0													
DDOR 2022 7978 959298		\$ 258,028.58	\$ -	\$ 6,410,810.10	\$ -	\$ -	\$ -	\$ 3,759	2026	6	0.00	0.00	0.00	0.00	1.59	3.23	5.03	5.61	5.32	4.07	4.60	7.4%	5	0		21958.55	\$ -	\$ -	\$ -	\$ 21,958.5	\$ 42,413.5	\$ -												
DDOR 2022 05P26358 688019		\$ 332,149.09	\$ -	\$ 3,373,515.00	\$ -	\$ -	\$ -	\$ -	2026	6	0.00	0.00	0.00	0.00	12.00	16.90	16.60	16.50	16.60	16.30	7.4%	5	0		28266.36	\$ -	\$ -	\$ -	\$ -	\$ 28,266.4	\$ 54,597.2													
DDOR 2022 8425		\$ 668,980.46	\$ -	\$ 24,583,889.78	\$ -	\$ -	\$ -	\$ 104,287.40	2026	6	0.00	0.00	0.00	0.00	16.40	176.20	163.40	194.20	158.70	197.10	7.4%	5	0		56931.19	\$ -	\$ -	\$ -	\$ -	\$ 56,931.2	\$ 109,964.1													
DDOR 2022 8325 339553		\$ 410,187.84	\$ -	\$ 3,373,632.56	\$ -	\$ -	\$ -	\$ 3,793.82	2025	7	0.00	0.00	0.00	59.00	110.10	267.10	262.70	269.60	277.40	269.60	7.4%	4	0		34066.83	\$ -	\$ -	\$ 34,066.8	\$ 65,801.0	\$ 95,362.2	\$ -													
DDOR 2022 4800		\$ 31,363,342.20	\$ -	\$ 100,373,070.37	\$ -	\$ -	\$ -	\$ 5,531,311.43	2027	5	0.00	0.00	0.00	0.00	0.00	0.00	2.20	160.10	407.80	669.40	7.4%	6	1		2734935.27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 8256		\$ 208,550,005.46	\$ -	\$ 123,145,043.25	\$ -	\$ -	\$ -	\$ 1,745,413.30	2028	4	6.20	83.60	485.20	892.20	1335.60	1340.20	1348.20	1347.50	1351.80	1355.70	7.4%	7	0		18634717.46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 6092		\$ 414,554,736.51	\$ -	\$ 104,351,279.77	\$ -	\$ -	\$ -	\$ 5,813,562.72	2029	3	205.30	218.60	225.00	228.10	237.40	245.70	256.40	265.40	275.40	286.30	7.4%	8	0		37956169.67	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 8469 577046		\$ 1,643,841.72	\$ -	\$ 3,383,332.56	\$ -	\$ -	\$ -	\$ 3,804.72	2025	7	0.00	0.00	0.00	1.30	20.40	32.40	42.20	49.60	61.00	66.70	7.4%	4	0		136523.98	\$ -	\$ -	\$ 136,524.0	\$ 263,699.7	\$ 382,167.2	\$ -													
DDOR 2022 8481		\$ 3,353,389.66	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2025	7	0.00	0.70	2.60	6.20	9.00	12.70	16.30	21.10	25.80	28.90	7.4%	4	0		278504.97	\$ -	\$ -	\$ 278,505.0	\$ 537,939.7	\$ 779,610.1	\$ -													
DDOR 2022 8476		\$ 1,488,136.58	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2025	7	0.00	0.00	0.60	2.00	2.10	3.10	4.90	4.20	3.00	2.70	7.4%	4	0		123592.39	\$ -	\$ -	\$ 123,592.4	\$ 238,722.0	\$ 345,968.2	\$ -													
DDOR 2022 05P4759 334554		\$ 215,726.79	\$ -	\$ 2,563,027.34	\$ -	\$ -	\$ -	\$ 3,081.70	2026	6	0.00	0.00	10.10	14.70	20.40	23.10	25.50	26.50	25.60	27.80	7.4%	4	0		17916.49	\$ -	\$ -	\$ 17,916.5	\$ 34,606.2	\$ 50,153.1	\$ -													
DDOR 2022 TSP 5TV35570		\$ -	\$ -	\$ -	\$ -	\$ 1,555,391.13	\$ -	\$ -	2026	6	0.00	0.00	0.00	0.00	1026.50	991.80	1003.90	1012.80	1088.70	1016.70	7.4%	5	0		0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -													
DDOR 2022 6055		\$ 1,127,004.43	\$ -	\$ 4,949,981.67	\$ -	\$ -	\$ -	\$ -	2025	7	0.20	0.50	0.60																															

[illegible]

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[illegible]

Deferral Value of Avoided Incremental O&M														Deferral Values										Final					
10	#1 Rate	#3 PMT	1	2	3	4	5	6	7	8	9	10		1	2	3	4	5	6	7	8	9	10	Deferral Value	Max Need during Deferral Period(MW)	LNBA Value	LNBA Unit		
2031	Discount rate net of O&M inflation	Incremental O&M Cost	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031						
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 419,361.13	\$ 809,487.66	\$ 1,172,421.29	\$ 1,510,060.88	\$ 1,824,172.42	\$ 2,116,398.38	\$ 2,116,398.38	\$	3.72	94,820.72	\$/MW-year	
\$ 86,867.3	8.0%	\$ 1,640.81	\$ -	\$ -	\$ -	\$ -	\$ 1,762.90	\$ 3,394.55	\$ 4,904.73	\$ 6,302.47	\$ 7,596.15	\$ 8,793.51	\$ -	\$ -	\$ -	\$ -	\$ 2,897,148.04	\$ 5,592,135.51	\$ 8,099,096.83	\$ 10,431,176.06	\$ 12,600,596.51	\$ 14,618,725.31	\$ 14,618,725.31	\$	21.90	111,253.62	\$/MW-year		
\$ 3,511.0	8.0%	\$ 59.69	\$ -	\$ -	\$ -	\$ 62.99	\$ 121.29	\$ 175.25	\$ 225.20	\$ 271.42	\$ 314.21	\$ 353.80	\$ -	\$ -	\$ -	\$ -	\$ 418,291.28	\$ 807,409.60	\$ 1,169,393.38	\$ 1,506,138.34	\$ 1,819,407.47	\$ 2,110,840.37	\$ 2,381,961.92	\$ 2,381,961.92	\$	16.82	20,230.69	\$/MW-year	
\$ 1,969,213.3	8.0%	\$ 55,560.05	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 56,250.19	\$ 108,312.52	\$ 156,498.79	\$ 201,097.57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,573,113.94	\$ 28,123,455.45	\$ 40,722,950.29	\$ 52,438,522.44	\$ 52,438,522.44	\$	55.30	189,659.88	\$/MW-year	
\$ 1,070,061.3	8.0%	\$ 27,461.54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,582.92	\$ 58,888.92	\$ 85,087.53	\$ 109,335.64	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37,303,630.32	\$ 72,000,855.45	\$ 104,724,167.00	\$ 134,293,250.12	\$ 134,293,250.12	\$	80.74	415,801.84	\$/MW-year	
\$ 2,813,572.7	8.0%	\$ 91,467.95	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 103,708.74	\$ 199,696.31	\$ 288,537.56	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 59,120,859.02	\$ 114,103,377.02	\$ 165,237,908.74	\$ 165,237,908.74	\$	286.30	192,383.17	\$/MW-year	
\$ 3,521.1	8.0%	\$ 59.86	\$ -	\$ -	\$ -	\$ 63.17	\$ 121.64	\$ 175.76	\$ 225.84	\$ 272.20	\$ 315.11	\$ 354.82	\$ -	\$ -	\$ -	\$ -	\$ 542,157.80	\$ 1,046,489.38	\$ 1,515,638.90	\$ 1,952,065.27	\$ 2,358,055.23	\$ 2,735,735.37	\$ 3,087,083.40	\$ 3,087,083.40	\$	15.68	28,128.98	\$/MW-year	
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 333,751.01	\$ 644,185.98	\$ 932,937.02	\$ 1,201,521.74	\$ 1,451,351.32	\$ 1,683,737.99	\$ 1,899,901.96	\$ 1,899,901.96	\$	8.39	32,349.77	\$/MW-year	
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 148,108.97	\$ 285,870.96	\$ 414,010.25	\$ 533,200.32	\$ 644,067.41	\$ 747,193.84	\$ 843,121.11	\$ 843,121.11	\$	1.97	61,140.04	\$/MW-year	
\$ 2,851.9	8.0%	\$ 48.49	\$ -	\$ -	\$ -	\$ 51.17	\$ 98.53	\$ 142.36	\$ 182.93	\$ 220.48	\$ 255.23	\$ 287.39	\$ -	\$ -	\$ -	\$ -	\$ 308,277.67	\$ 595,055.78	\$ 861,836.55	\$ 1,110,016.99	\$ 1,340,896.37	\$ 1,555,682.97	\$ 1,755,500.55	\$ 1,755,500.55	\$	3.53	70,641.89	\$/MW-year	
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 177,756.01	\$ 343,122.40	\$ 496,964.28	\$ 640,086.26	\$ 773,236.63	\$ 897,111.38	\$ 897,111.38	\$	70.00	215.98	\$/MW-year	
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 664,978.26	\$ 1,283,584.19	\$ 1,859,057.53	\$ 2,394,411.25	\$ 2,892,447.43	\$ 3,355,772.05	\$ 3,786,808.76	\$ 3,786,808.76	\$	1.50	360,648.45	\$/MW-year	
\$ 1,998,251.4	8.0%	\$ 37,744.39	\$ -	\$ -	\$ -	\$ -	\$ 40,552.88	\$ 78,086.58	\$ 112,825.88	\$ 144,978.82	\$ 174,737.96	\$ 202,281.52	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,762,149.28	\$ 7,256,962.07	\$ 10,503,516.12	\$ 13,519,521.49	\$ 16,321,419.10	\$ 18,924,472.11	\$ 18,924,472.11	\$	21.00	150,194.22	\$/MW-year	
\$ 2,580.9	8.0%	\$ 48.75	\$ -	\$ -	\$ -	\$ -	\$ 52.38	\$ 100.86	\$ 145.73	\$ 187.25	\$ 225.69	\$ 261.27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 704,494.69	\$ 1,020,278.60	\$ 1,314,008.23	\$ 1,587,226.87	\$ 1,841,369.59	\$ 2,077,770.83	\$ 2,077,770.83	\$	21.12	14,054.19	\$/MW-year	
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 826,142.52	\$ 1,594,702.77	\$ 2,309,701.50	\$ 2,974,787.16	\$ 3,593,710.59	\$ 4,169,433.43	\$ 4,169,433.43	\$	4.00	173,726.39	\$/MW-year	
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 423,449.46	\$ 817,380.41	\$ 1,183,854.31	\$ 1,524,788.38	\$ 1,841,965.69	\$ 2,137,044.62	\$ 2,411,567.53	\$ 2,411,567.53	\$	4.72	72,989.33	\$/MW-year
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 422,982.16	\$ 816,478.39	\$ 1,182,547.87	\$ 1,523,105.70	\$ 1,839,932.99	\$ 2,134,686.29	\$ 2,408,906.24	\$ 2,408,906.24	\$	3.43	100,329.29	\$/MW-year
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 425,730.87	\$ 821,784.18	\$ 1,190,232.52	\$ 1,533,003.42	\$ 1,851,889.59	\$ 2,148,558.30	\$ 2,424,560.24	\$ 2,424,560.24	\$	5.66	61,195.36	\$/MW-year
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 628,596.35	\$ 1,213,373.46	\$ 1,757,391.52	\$ 2,263,496.57	\$ 2,734,335.53	\$ 3,172,370.18	\$ 3,579,890.11	\$ 3,579,890.11	\$	2.60	196,697.26	\$/MW-year
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,895.90	\$ 24,891.01	\$ 36,408.39	\$ 46,426.66	\$ 56,080.32	\$ 65,060.07	\$ 65,060.07	\$	1.00	104,834.34	\$/MW-year
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 423,449.46	\$ 817,380.44	\$ 1,183,854.35	\$ 1,524,788.43	\$ 1,841,965.76	\$ 2,137,044.70	\$ 2,411,567.61	\$ 2,411,567.61	\$	4.60	74,893.40	\$/MW-year
\$ 276,033.8	8.0%	\$ 4,692.88	\$ -	\$ -	\$ -	\$ 4,952.41	\$ 9,536.11	\$ 13,778.55	\$ 17,705.14	\$ 21,339.40	\$ 24,703.08	\$ 27,816.33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 549,057.20	\$ 1,059,146.87	\$ 1,533,045.70	\$ 1,973,311.66	\$ 2,382,398.29	\$ 2,762,467.99	\$ 3,115,604.25	\$ 3,115,604.25	\$	8.50	52,363.10	\$/MW-year
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 820,509.78	\$ 1,583,826.81	\$ 2,293,944.87	\$ 2,954,578.31	\$ 3,569,181.63	\$ 4,140,967.71	\$ 4,140,967.71	\$	16.25	42,479.31	\$/MW-year	
\$ 3,130.9	8.0%	\$ 59.14	\$ -	\$ -	\$ -	\$ -	\$ 63.54	\$ 122.35	\$ 176.78	\$ 227.15	\$ 273.78	\$ 316.94	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 759,629.21	\$ 1,466,300.33	\$ 2,123,712.13	\$ 2,735,304.36	\$ 3,304,276.85	\$ 3,833,604.43	\$ 3,833,604.43	\$	35.10	182,025.27	\$/MW-year	
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 419,361.13	\$ 809,487.66	\$ 1,172,421.29	\$ 1,510,060.88	\$ 1,824,172.42	\$ 2,116,398.38	\$ 2,116,398.38	\$	15.90	20,871.76	\$/MW-day	
\$ 86,867.3	8.0%	\$ 1,640.81	\$ -	\$ -	\$ -	\$ -	\$ 1,762.90	\$ 3,394.55	\$ 4,904.73	\$ 6,302.47	\$ 7,596.15	\$ 8,793.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,897,148.04	\$ 5,592,135.51	\$ 8,099,096.83	\$ 10,431,176.06	\$ 12,600,596.51	\$ 14,618,725.31	\$ 14,618,725.31	\$	197.10	12,615.51	\$/MW-day	
\$ 3,511.0	8.0%	\$ 59.69	\$ -	\$ -	\$ -	\$ 62.99	\$ 121.29	\$ 175.25	\$ 225.20	\$ 271.42	\$ 314.21	\$ 353.80	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 418,291.28	\$ 807,409.60	\$ 1,169,393.38	\$ 1,506,138.34	\$ 1,819,407.47	\$ 2,110,840.37	\$ 2,381,961.92	\$ 2,381,961.92	\$	277.40	1,226.68	\$/MW-day
\$ 1,969,213.3	8.0%	\$ 55,560.05	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 56,250.19	\$ 108,312.52	\$ 156,498.79	\$ 201,097.57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,573,113.94	\$ 28,123,455.45	\$ 40,722,950.29	\$ 52,438,522.44	\$ 52,438,522.44	\$	669.40	15,667.32	\$/MW-day	
\$ 1,070,061.3	8.0%	\$ 27,461.54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,582.92	\$ 58,888.92	\$ 85,087.53	\$ 109,335.64	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37,303,630.32	\$ 72,000,855.45	\$ 104,724,167.00	\$ 134,293,250.12	\$ 134,293,250.12	\$	66.00	24,764.56	\$/MW-day	
\$ 2,813,572.7	8.0%	\$ 91,467.95	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 103,708.74	\$ 199,696.31	\$ 288,537.56	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 59,120,859.02	\$ 114,103,377.02	\$ 165,237,908.74	\$ 165,237,908.74	\$	1,588.40	34,675.97	\$/MW-day	
\$ 3,521.1	8.0%	\$ 59.86	\$ -	\$ -	\$ -	\$ 63.17	\$ 121.64	\$ 175.76	\$ 225.84	\$ 272.20	\$ 315.11	\$ 354.82	\$ -	\$ -	\$ -	\$ -	\$ 542,157.80	\$ 1,046,489.38	\$ 1,515,638.90	\$ 1,952,065.27	\$ 2,358,055.23	\$ 2,735,735.37	\$ 3,087,083.40	\$ 3,087,083.40	\$	66.70	6,611.87	\$/MW-day	
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 333,751.01	\$ 644,185.98	\$ 932,937.02	\$ 1,201,521.74	\$ 1,451,351.32	\$ 1,683,737.99	\$ 1,899,901.96	\$ 1,899,901.96	\$	28.90	9,391.51	\$/MW-day	
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 148,108.97	\$ 285,870.96	\$ 414,010.25	\$ 533,200.32	\$ 644,067.41	\$ 747,193.84	\$ 843,121.11	\$ 843,121.11	\$	4.90	24,580.79	\$/MW-day	
\$ 2,851.9	8.0%	\$ 48.49	\$ -	\$ -	\$ -	\$ 51.17	\$ 98.53	\$ 142.36	\$ 182.93	\$ 220.48	\$ 255.23	\$ 287.39	\$ -	\$ -	\$ -	\$ -	\$ 308,277.67	\$ 595,055.78	\$ 861,836.55	\$ 1,110,016.99	\$ 1,340,896.37	\$ 1,555,682.97	\$ 1,755,500.55	\$ 1,755,500.55	\$	27.80	9,021.07	\$/MW-day	
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 177,756.01	\$ 343,122.40	\$ 496,964.28	\$ 640,086.26	\$ 773,236.63	\$ 897,111.38	\$ 897,111.38	\$	1,088.70	137.34	\$/MW-day	
\$ -	8.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 664,978.26	\$ 1,283,584.19	\$ 1,859,057.53	\$ 2,394,411.25	\$ 2,892,447.43	\$ 3,355,772.05	\$ 3,786,808.76	\$ 3,786,808.76	\$	2.60	208,664.42	\$/MW-day	
\$ 1,998,251.4	8.0%	\$ 37,744.39	\$ -	\$ -	\$ -	\$ -	\$ 40,552.88	\$ 78,086.58	\$ 112,825.88	\$ 144,978.82	\$ 174,737.96	\$ 202,281.52	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,762,149.28	\$ 7,256,962.07	\$ 10,503,516.12	\$ 13,519,521.49	\$ 16,321,419.10	\$ 18,924,472.11	\$ 18,924,472.11	\$	128.70	24,507.22	\$/MW-day	
\$ 2,580.9	8.0%	\$ 48.75	\$ -	\$ -	\$ -	\$ -	\$ 52.38	\$ 100.86	\$ 145.73	\$ 187.25	\$ 225.69	\$ 261.27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 704,494.69	\$ 1,020,278.60	\$ 1,314,008.23	\$ 1,587,226.87	\$ 1,841							

Parameters								Source/Citation
Discount Rate (%/yr)	10.00%							Incremental cost of capital based on authorized cost of capital adjusted for long term interest rate projections, and used for ratepayer analysis.
	Substation	Substation Bank	Primary Feeder	Poles and towers	Capacitors	Protection equipment	IT	
Revenue Requirement Multiplier	1.12	1.12	1.17	1.21	1.17	1.15	1.22	Present value of revenue requirement calculations from model typically used to support analysis for capital approvals and other ad-hoc financial analysis. Calculations done for each equipment type using other depreciation/tax assumptions supporting the GRC, and previously defined cost of capital inputs
Equipment Inflation (%/yr)	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	1.0%	IHS Markit, April 20, 2022 Update
O&M Inflation (%/yr)	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.8%	IHS Markit, April 20, 2022 Update
O&M Factor	1.6%	1.6%	1.6%	1.6%	1.6%	1.6%	1.6%	2021 GRC Final Decision Authorized Rates AL 4586-E, AL 4639
Book Life (yrs)	67	67	33	55	33	49	11	2021 GRC Final Decision Authorized Rates AL 4586-E, AL 4639

Attachment F

Known Load Projects

Circuit	Unique Project Identifier	Sector	Category	IEPR Status	Requested Load Amount (MVA)	Initial Service Request Date	Current Expected In-Service Date	Status	Actual In-Service	Actual Load Amount
ACALA	256573	Agricultural	Agricultural Water Pump	Embedded	0.3	2019-09-18	N/A	Ongoing	N/A	N/A
ACME	134573	Commercial	Other	Embedded	1.413	2017-08-31	N/A	Ongoing	N/A	N/A
ACROBAT	302330	Commercial	Other	Embedded	0.75	2019-10-17	N/A	Ongoing	N/A	N/A
ADDIS	519399	Commercial	Low Duty Commercial EV Charger	Incremental	0.95	2020-10-16	N/A	Ongoing	N/A	N/A
ADMIRAL	256765	Commercial	Lodging	Embedded	0.75	2019-10-16	2023	Ongoing	N/A	N/A
ADMIRAL	256766	Residential	Mixed Use	Embedded	0.9	2019-10-16	2023	Ongoing	N/A	N/A
ADMIRAL	550564	Commercial	Business Park (Office Buildings)	Embedded	3	2021-10-13	N/A	Ongoing	N/A	N/A
ADOLFO	550570	Commercial	Business Park (Office Buildings)	Embedded	1.5	2021-10-13	2023	Ongoing	N/A	N/A
ADOLFO	550571	Industrial	Industrial Plant	Embedded	2.5	2021-10-13	N/A	Ongoing	N/A	N/A
ADOLFO	550572	Commercial	Schools (including universities and colleges)	Embedded	1.5	2021-10-13	N/A	Ongoing	N/A	N/A
ADOLFO	550573	Commercial	Schools (including universities and colleges)	Embedded	1.5	2021-10-13	N/A	Ongoing	N/A	N/A
AGAVE	134713	Residential	Mega Tract Homes	Embedded	2.36	2017-12-19	N/A	Ongoing	N/A	N/A
AHOY	540234	Industrial	Industrial Plant	Embedded	5.8	2021-02-10	2023	Ongoing	N/A	N/A
ALAMO	439613	Residential	Mixed Use	Embedded	1.2	2020-04-29	N/A	Ongoing	N/A	N/A
ALASKA	519403	Residential	Zero Net Energy (ZNE)	Embedded	3	2020-10-16	2023	Ongoing	N/A	N/A
ALASKA	542762	Commercial	Other	Embedded	0.395	2021-10-01	N/A	Ongoing	N/A	N/A
ALBACORE	540323	Commercial	Low Duty Commercial EV Charger	Incremental	0.774	2021-05-20	N/A	Ongoing	N/A	N/A
ALFREDO	550576	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-10-13	N/A	Ongoing	N/A	N/A
ALLA	238497	Commercial	Business Park (Office Buildings)	Embedded	1.8	2018-10-12	2023	Ongoing	N/A	N/A
ALMANSOR	519364	Residential	Mixed Use	Embedded	0.3	2020-10-15	N/A	Ongoing	N/A	N/A
ALMANSOR	519365	Residential	Mixed Use	Embedded	0.714	2020-10-15	2023	Ongoing	N/A	N/A
ALMANSOR	550465	Residential	Mixed Use	Embedded	1.5	2021-10-12	2023	Ongoing	N/A	N/A
ALTERRA	373977	Residential	Tract Homes	Embedded	1.281	2019-10-17	N/A	Ongoing	N/A	N/A
ALTERRA	439631	Commercial	Low Duty Commercial EV Charger	Incremental	1.355	2020-05-27	N/A	Ongoing	N/A	N/A
ALUMINUM	439693	Commercial	Mixed Use	Embedded	4.14	2020-07-15	2026	Ongoing	N/A	N/A
ALVARADO	2540	Residential	Tract Homes	Embedded	0.765	2012-08-10	N/A	Ongoing	N/A	N/A
ALVARADO	550635	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-10-14	2023	Ongoing	N/A	N/A
ALVERA	519348	Commercial	Other	Embedded	2.5	2020-10-15	N/A	Ongoing	N/A	N/A
AMANDA	550579	Residential	Tract Homes	Embedded	0.36	2021-10-13	2024	Ongoing	N/A	N/A
AMBRUS	519466	Commercial	Mixed Use	Embedded	2.06	2020-10-16	N/A	Ongoing	N/A	N/A
AMBRUS	550462	Residential	Mixed Use	Embedded	2	2021-10-12	2023	Ongoing	N/A	N/A
ANDES	519540	Industrial	Industrial Plant	Embedded	1.2	2020-10-25	N/A	Ongoing	N/A	N/A
ANDES	519541	Commercial	Distribution/Fulfillment Centers	Embedded	1.5	2020-10-25	N/A	Ongoing	N/A	N/A
ANGELINA	519401	Commercial	Speculative Building	Embedded	1.25	2020-10-16	2023	Ongoing	N/A	N/A
ANTLER	548496	Commercial	Speculative Building	Embedded	1.12	2021-10-08	2023	Ongoing	N/A	N/A
ANTONE	134573	Commercial	Other	Embedded	0.8696	2017-08-31	N/A	Ongoing	N/A	N/A
APEX	519218	Industrial	Cultivation	Incremental	2.238	2020-10-08	N/A	Ongoing	N/A	N/A
APEX	542740	Commercial	Mixed Use	Embedded	6.714	2021-10-01	2025	Ongoing	N/A	N/A
APEX	550602	Commercial	Commercial Water Pump	Embedded	0.613	2021-10-14	N/A	Ongoing	N/A	N/A
APPALOUSA	134741	Residential	Mega Tract Homes	Embedded	1.5296	2017-12-21	N/A	Ongoing	N/A	N/A
APPALOUSA	134742	Residential	Tract Homes	Embedded	1.6305	2017-12-21	N/A	Ongoing	N/A	N/A
APPALOUSA	519458	Residential	Tract Homes	Embedded	3	2020-10-16	N/A	Ongoing	N/A	N/A
APPALOUSA	557433	Residential	Apartments	Embedded	0.43	2021-10-18	2023	Ongoing	N/A	N/A
APRICOT	542733	Commercial	Medical	Embedded	0.984	2021-09-30	N/A	Ongoing	N/A	N/A
AQUARIUS	134575	Commercial	Medical	Embedded	4.5	2017-09-04	N/A	Ongoing	N/A	N/A
ARGONAUT	223291	Residential	Tract Homes	Embedded	0.3	2018-10-11	N/A	Ongoing	N/A	N/A
ARGONAUT	557398	Commercial	Speculative Building	Embedded	0.225	2021-10-18	2024	Ongoing	N/A	N/A
ARIES	550518	Commercial	Temporary Power	Incremental	0.345	2021-10-13	N/A	Ongoing	N/A	N/A
ARLENE	3209	Residential	Mega Tract Homes	Embedded	5.274	2013-12-10	N/A	Ongoing	N/A	N/A
ARLINGTON	216043	Commercial	Lodging	Embedded	0.225	2018-10-11	2023	Ongoing	N/A	N/A
ARLINGTON	519543	Commercial	Speculative Building	Embedded	3	2020-10-25	N/A	Ongoing	N/A	N/A
ARMADA	223294	Residential	Mega Tract Homes	Embedded	2	2018-10-11	N/A	Ongoing	N/A	N/A
ARMUO	540314	Industrial	Other	Embedded	1.3161	2021-05-04	2023	Ongoing	N/A	N/A
ARSENIC	540309	Industrial	Data Centers	Embedded	3	2021-04-30	N/A	Ongoing	N/A	N/A
ARTISANO	216095	Commercial	Speculative Building	Embedded	3.072	2018-10-11	2023	Ongoing	N/A	N/A
ARTIST	519483	Commercial	Low Duty Commercial EV Charger	Incremental	0.542	2020-10-16	N/A	Ongoing	N/A	N/A
ASHBERRY	134732	Residential	Tract Homes	Embedded	0.725	2017-12-21	N/A	Ongoing	N/A	N/A
ASSEMBLY	484245	Commercial	Mixed Use	Embedded	0.571	2020-10-07	N/A	Ongoing	N/A	N/A
ASSEMBLY	484246	Residential	Custom Homes	Embedded	1.071	2020-10-07	N/A	Ongoing	N/A	N/A
ASSEMBLY	557091	Industrial	Cultivation	Incremental	0.288	2021-10-15	2024	Ongoing	N/A	N/A
ASTON	586105	Industrial	Other	Embedded	0.5	2021-11-03	N/A	Ongoing	N/A	N/A
ASTORIA	256395	Commercial	Speculative Building	Embedded	2.25	2018-10-16	N/A	Ongoing	N/A	N/A
ASTROLOGY	425327	Commercial	Mixed Use	Embedded	1.35	2019-12-04	N/A	Ongoing	N/A	N/A
ATENTO	28295	Residential	Mega Tract Homes	Embedded	1.5	2015-07-07	N/A	Ongoing	N/A	N/A
ATENTO	134586	Commercial	Schools (including universities and colleges)	Embedded	1.6	2017-09-23	N/A	Ongoing	N/A	N/A
ATENTO	191947	Residential	Tract Homes	Embedded	1.095	2018-10-09	N/A	Ongoing	N/A	N/A
ATLANTA	550615	Commercial	Mixed Use	Embedded	2.9	2021-10-14	N/A	Ongoing	N/A	N/A
ATMORE	191950	Commercial	Medical	Embedded	0.5	2018-10-09	N/A	Ongoing	N/A	N/A

Circuit	Unique Project Identifier	Sector	Category	IEPR Status	Requested Load Amount (MVA)	Initial Service Request Date	Current Expected In-Service Date	Status	Actual In-Service	Actual Load Amount
ATMORE	550578	Commercial	Low Duty Commercial EV Charger	Incremental	0.45	2021-10-13	N/A	Ongoing	N/A	N/A
ATMORE	550590	Residential	Apartments	Embedded	0.75	2021-10-13	2023	Ongoing	N/A	N/A
AUGUSTA	199133	Residential	Tract Homes	Embedded	3.93	2018-10-10	N/A	Ongoing	N/A	N/A
AUTRY	115911	Residential	Tract Homes	Embedded	5.1031	2017-01-04	N/A	Ongoing	N/A	N/A
AUTUMN	256361	Commercial	Business Park (Office Buildings)	Embedded	0.613	2018-10-13	N/A	Ongoing	N/A	N/A
AUTUMN	540306	Commercial	Low Duty Commercial EV Charger	Incremental	0.813	2021-04-29	N/A	Ongoing	N/A	N/A
AUTUMN	550460	Residential	Tract Homes	Embedded	1.6	2021-10-12	2023	Ongoing	N/A	N/A
AVANTI	519521	Residential	Tract Homes	Embedded	0.9	2020-10-19	N/A	Ongoing	N/A	N/A
AVCO	395542	Commercial	Lodging	Embedded	1.2	2019-10-21	2023	Ongoing	N/A	N/A
AVENGER	519476	Residential	Tract Homes	Embedded	1.76	2020-10-16	N/A	Ongoing	N/A	N/A
AVIATOR	557461	Residential	Tract Homes	Embedded	2.5	2021-10-18	2023	Ongoing	N/A	N/A
BADWATER	206534	Commercial	Lodging	Embedded	1.2	2018-10-10	N/A	Ongoing	N/A	N/A
BALBOA	134411	Residential	Custom Homes	Embedded	0.15	2017-02-10	N/A	Ongoing	N/A	N/A
BALL	256536	Agricultural	Agricultural Water Pump	Embedded	0.3	2019-07-15	N/A	Ongoing	N/A	N/A
BALL	256552	Agricultural	Agriculture / Food Processing	Embedded	1.8	2019-08-19	N/A	Ongoing	N/A	N/A
BALL	256610	Agricultural	Agricultural Water Pump	Embedded	0.303	2019-09-27	N/A	Ongoing	N/A	N/A
BALLARD	550467	Commercial	Shopping Centers	Embedded	0.8	2021-10-12	N/A	Ongoing	N/A	N/A
BALLONA	540317	Commercial	Low Duty Commercial EV Charger	Incremental	0.774	2021-05-07	N/A	Ongoing	N/A	N/A
BALLONA	540390	Commercial	Other	Embedded	1.632	2021-08-23	N/A	Ongoing	N/A	N/A
BALLZAK	548506	Commercial	Distribution/Fulfillment Centers	Embedded	0.7	2021-10-08	N/A	Ongoing	N/A	N/A
BALLZAK	548507	Commercial	Other	Embedded	0.409	2021-10-08	N/A	Ongoing	N/A	N/A
BALSAM	550649	Residential	Tract Homes	Embedded	1	2021-10-15	N/A	Ongoing	N/A	N/A
BAMBOO	550547	Commercial	Business Park (Office Buildings)	Embedded	0.383	2021-10-13	N/A	Ongoing	N/A	N/A
BAMBOO	550557	Commercial	Shopping Centers	Embedded	0.7	2021-10-13	N/A	Ongoing	N/A	N/A
BANDANA	540296	Commercial	Commercial Water Pump	Embedded	11	2021-03-31	2023	Ongoing	N/A	N/A
BARBARA	461589	Industrial	Industrial Plant	Embedded	3.52	2020-08-06	N/A	Ongoing	N/A	N/A
BARBARA	550458	Commercial	Speculative Building	Embedded	0.3	2021-10-11	2024	Ongoing	N/A	N/A
BARCELONA	540372	Residential	Mega Tract Homes	Embedded	1.412	2021-08-02	2023	Ongoing	N/A	N/A
BARLEY FLATS	540473	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	2.167	2021-09-22	N/A	Ongoing	N/A	N/A
BARNACLE	216101	Commercial	Low Duty Commercial EV Charger	Incremental	0.774	2018-10-11	N/A	Ongoing	N/A	N/A
BARNACLE	461582	Commercial	Low Duty Commercial EV Charger	Incremental	1.161	2020-08-03	N/A	Ongoing	N/A	N/A
BARRACKS	256792	Commercial	Business Park (Office Buildings)	Embedded	0.3	2019-10-16	N/A	Ongoing	N/A	N/A
BARRACUDA	540319	Commercial	Low Duty Commercial EV Charger	Incremental	0.766	2021-05-11	N/A	Ongoing	N/A	N/A
BASELINE	557099	Agricultural	Agriculture Water Pump	Embedded	0.3	2021-10-15	N/A	Ongoing	N/A	N/A
BASENJI	550484	Commercial	Low Duty Commercial EV Charger	Incremental	0.54	2021-10-12	N/A	Canceled	N/A	N/A
BATEMAN	519457	Commercial	Lodging	Embedded	0.75	2020-10-16	N/A	Ongoing	N/A	N/A
BATEMAN	548540	Residential	Apartments	Embedded	1.7	2021-10-11	2023	Ongoing	N/A	N/A
BATTALION	134594	Industrial	Cultivation	Incremental	0.656	2017-10-06	N/A	Ongoing	N/A	N/A
BAXTER	256767	Industrial	Cultivation	Incremental	1	2019-10-16	2023	Ongoing	N/A	N/A
BAXTER	439584	Industrial	Cultivation	Incremental	1	2020-03-06	2024	Ongoing	N/A	N/A
BAZOOKA	557442	Residential	Tract Homes	Embedded	0.91	2021-10-18	N/A	Ongoing	N/A	N/A
BAZOOKA	560607	Industrial	Cultivation	Incremental	2.5	2021-10-19	N/A	Ongoing	N/A	N/A
BEAGLE	519484	Commercial	Low Duty Commercial EV Charger	Incremental	1.288	2020-10-16	N/A	Ongoing	N/A	N/A
BEARDSLEY	410255	Commercial	Other	Embedded	0.75	2019-10-22	2023	Ongoing	N/A	N/A
BEARDSLEY	519265	Industrial	Distribution/Fulfillment Centers	Embedded	27.5	2020-10-12	N/A	Ongoing	N/A	N/A
BEARDSLEY	519293	Commercial	Business Park (Office Buildings)	Embedded	0.75	2020-10-14	N/A	Ongoing	N/A	N/A
BEAVER	439626	Agricultural	Agricultural Water Pump	Embedded	0.3	2020-05-20	N/A	Ongoing	N/A	N/A
BEAVER	540219	Agricultural	Agricultural Water Pump	Embedded	0.25	2021-01-15	N/A	Ongoing	N/A	N/A
BEECHNUT	540456	Commercial	Low Duty Commercial EV Charger	Incremental	2.568	2021-09-21	2023	Canceled	N/A	N/A
BEECHNUT	548471	Industrial	Other	Embedded	0.75	2021-10-06	N/A	Ongoing	N/A	N/A
BEELER	519462	Residential	Tract Homes	Embedded	1	2020-10-16	N/A	Ongoing	N/A	N/A
BEELER	557444	Residential	Tract Homes	Embedded	0.86	2021-10-18	N/A	Ongoing	N/A	N/A
BEGONIA	519505	Commercial	Business Park (Office Buildings)	Embedded	0.45	2020-10-17	N/A	Ongoing	N/A	N/A
BEGONIA	540464	Commercial	Business Park (Office Buildings)	Embedded	2	2021-09-21	N/A	Ongoing	N/A	N/A
BEIJING	412603	Industrial	Data Centers	Embedded	1.928	2019-10-23	2023	Ongoing	N/A	N/A
BELFAST	395539	Commercial	Mixed Use	Embedded	1.515	2019-10-18	N/A	Ongoing	N/A	N/A
BELLGRAVE	540339	Industrial	Industrial Plant	Embedded	3	2021-06-21	N/A	Ongoing	N/A	N/A
BELPAC	550511	Commercial	Low Duty Commercial EV Charger	Incremental	0.75	2021-10-13	N/A	Ongoing	N/A	N/A
BELUSHI	550549	Commercial	Schools (including universities and colleges)	Embedded	0.73	2021-10-13	2023	Ongoing	N/A	N/A
BEONE	302327	Industrial	Other	Embedded	0.413	2019-10-17	N/A	Ongoing	N/A	N/A
BERTEA	191916	Residential	Tract Homes	Embedded	0.8	2018-10-08	N/A	Ongoing	N/A	N/A
BERTEA	395531	Commercial	Mixed Use	Embedded	3.292	2019-10-18	N/A	Ongoing	N/A	N/A
BERTEA	550470	Commercial	Low Duty Commercial EV Charger	Incremental	1.355	2021-10-12	2023	Ongoing	N/A	N/A
BIGELOW	439593	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2020-03-30	N/A	Ongoing	N/A	N/A
BILL	200967	Commercial	Metro and Train Lines	Embedded	2.657	2018-10-10	N/A	Ongoing	N/A	N/A
BILTON	238513	Residential	Mixed Use	Embedded	0.966	2018-10-12	2023	Ongoing	N/A	N/A
BILTON	548482	Commercial	Mixed Use	Embedded	0.85	2021-10-07	N/A	Ongoing	N/A	N/A
BILTON	548483	Commercial	Mixed Use	Embedded	0.85	2021-10-07	N/A	Ongoing	N/A	N/A

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BILTON	557385	Commercial	Lodging	Embedded	1.5	2021-10-16	N/A	Ongoing	N/A	N/A
BINGO	410220	Industrial	Cultivation	Incremental	0.5	2019-10-22	N/A	Ongoing	N/A	N/A
BINGO	519508	Industrial	Cultivation	Incremental	1.2	2020-10-17	N/A	Ongoing	N/A	N/A
BIRCHIM	256674	Commercial	Business Park (Office Buildings)	Embedded	1	2019-10-11	N/A	Ongoing	N/A	N/A
BISHOP	238529	Commercial	Low Duty Commercial EV Charger	Incremental	1.92	2018-10-12	N/A	Ongoing	N/A	N/A
BISON	191932	Commercial	Reservation-related	Embedded	10	2018-10-09	N/A	Ongoing	N/A	N/A
BLACKBIRD	478235	Commercial	Business Park (Office Buildings)	Embedded	0.39	2020-10-06	2023	Ongoing	N/A	N/A
BLACKBURN	224224	Residential	Tract Homes	Embedded	1.9304	2018-10-11	N/A	Ongoing	N/A	N/A
BLACKWIDOW	548519	Commercial	Other	Embedded	0.3	2021-10-08	N/A	Ongoing	N/A	N/A
BLAKE	519383	Residential	Zero Net Energy (ZNE)	Embedded	0.5	2020-10-16	N/A	Ongoing	N/A	N/A
BLITZ	519446	Commercial	Shopping Centers	Embedded	0.2	2020-10-16	N/A	Ongoing	N/A	N/A
BLOCKER	540280	Commercial	Low Duty Commercial EV Charger	Incremental	0.55	2021-03-17	N/A	Ongoing	N/A	N/A
BOA	256640	Commercial	Other	Embedded	1.178	2019-10-08	N/A	Ongoing	N/A	N/A
BOBBIT	519532	Commercial	Lodging	Embedded	0.53	2020-10-22	N/A	Ongoing	N/A	N/A
BOBSLED	550461	Commercial	Lodging	Embedded	3	2021-10-12	2024	Ongoing	N/A	N/A
BOBSLED	550463	Residential	Tract Homes	Embedded	0.2	2021-10-12	N/A	Ongoing	N/A	N/A
BODKIN	557434	Residential	Tract Homes	Embedded	0.425	2021-10-18	N/A	Ongoing	N/A	N/A
BOEING	216064	Commercial	Mixed Use	Embedded	2.3528	2018-10-11	2023	Ongoing	N/A	N/A
BOEING	540388	Commercial	Low Duty Commercial EV Charger	Incremental	1.25	2021-08-23	N/A	Ongoing	N/A	N/A
BOEING	542734	Commercial	Temporary Power	Incremental	0	2021-09-30	N/A	Ongoing	N/A	N/A
BOEING	586106	Commercial	Low Duty Commercial EV Charger	Incremental	0.9	2021-11-05	N/A	Ongoing	N/A	N/A
BOGEY	256678	Commercial	Temporary Power	Incremental	-0.14	2019-10-11	2023	Ongoing	N/A	N/A
BOGEY	519375	Industrial	Cultivation	Incremental	1	2020-10-16	2023	Ongoing	N/A	N/A
BOISE	256649	Commercial	Shopping Centers	Embedded	0.642	2019-10-08	N/A	Ongoing	N/A	N/A
BOLIVIA	478233	Commercial	Distribution/Fulfillment Centers	Embedded	1	2020-10-06	N/A	Ongoing	N/A	N/A
BONITA	206539	Commercial	Other	Embedded	1.3	2018-10-10	2023	Ongoing	N/A	N/A
BONSALL	134571	Commercial	Other	Embedded	6	2017-08-28	2025	Ongoing	N/A	N/A
BONSALL	256393	Commercial	Temporary Power	Incremental	-3	2018-10-16	N/A	Ongoing	N/A	N/A
BONTANIC	557100	Commercial	Low Duty Commercial EV Charger	Embedded	0.556	2021-10-15	N/A	Ongoing	N/A	N/A
BONVIEW	548503	Commercial	Speculative Building	Embedded	0.407	2021-10-08	N/A	Ongoing	N/A	N/A
BONVIEW	548509	Residential	Apartments	Embedded	0.254	2021-10-08	2023	Ongoing	N/A	N/A
BORBA	410171	Commercial	Shopping Centers	Embedded	1	2019-10-21	2023	Ongoing	N/A	N/A
BORBA	439535	Commercial	Distribution/Fulfillment Centers	Embedded	7.586	2019-12-12	N/A	Ongoing	N/A	N/A
BORBA	519499	Commercial	Speculative Building	Embedded	5	2020-10-17	N/A	Ongoing	N/A	N/A
BORBA	548522	Commercial	Speculative Building	Embedded	0.329	2021-10-08	N/A	Ongoing	N/A	N/A
BORIS	542725	Residential	Zero Net Energy (ZNE)	Embedded	0.252	2021-09-30	N/A	Ongoing	N/A	N/A
BOULDER	550661	Residential	Tract Homes	Embedded	1.32	2021-10-15	N/A	Ongoing	N/A	N/A
BOUQUET	54898	Commercial	Other	Embedded	5.0294	2016-01-13	2023	Ongoing	N/A	N/A
BOWEN	54910	Agricultural	Agricultural Water Pump	Embedded	0.15	2016-01-19	N/A	Ongoing	N/A	N/A
BOWMAN	519577	Commercial	Shopping Centers	Embedded	1.102	2020-12-22	N/A	Ongoing	N/A	N/A
BOXCAR	484248	Industrial	Cultivation	Incremental	0.828	2020-10-07	N/A	Ongoing	N/A	N/A
BOXCAR	557095	Commercial	Low Duty Commercial EV Charger	Incremental	0.883	2021-10-15	2023	Ongoing	N/A	N/A
BOXCAR	557096	Commercial	Low Duty Commercial EV Charger	Incremental	1.355	2021-10-15	2024	Ongoing	N/A	N/A
BOXER	548446	Commercial	Speculative Building	Embedded	0.3	2021-10-04	N/A	Ongoing	N/A	N/A
BOYER	519291	Commercial	Commercial Water Pump	Embedded	0.6	2020-10-13	2023	Ongoing	N/A	N/A
BRADSHAW	557488	Commercial	Low Duty Commercial EV Charger	Incremental	1.625	2021-10-18	2023	Ongoing	N/A	N/A
BRAND	238522	Commercial	Shopping Centers	Embedded	0.5629	2018-10-12	N/A	Ongoing	N/A	N/A
BRAND	256685	Residential	Mixed Use	Embedded	0.627	2019-10-14	N/A	Ongoing	N/A	N/A
BRAND	475874	Commercial	Speculative Building	Embedded	0.5	2020-10-01	N/A	Ongoing	N/A	N/A
BRAUN	560613	Commercial	Low Duty Commercial EV Charger	Incremental	0.813	2021-10-20	2023	Ongoing	N/A	N/A
BRETHREN	557394	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	0.668	2021-10-18	N/A	Canceled	N/A	N/A
BREWER	519542	Industrial	Industrial Plant	Embedded	4.9	2020-10-25	N/A	Ongoing	N/A	N/A
BRIDE	519340	Commercial	Lodging	Embedded	0.7	2020-10-15	2023	Ongoing	N/A	N/A
BROOKLINE	540355	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	3.6	2021-07-15	2023	Ongoing	N/A	N/A
BROOME	519265	Industrial	Distribution/Fulfillment Centers	Embedded	27.5	2020-10-12	N/A	Ongoing	N/A	N/A
BROTHERTON	557484	Commercial	Distribution/Fulfillment Centers	Embedded	0.5	2021-10-18	N/A	Ongoing	N/A	N/A
BRYANT	216095	Commercial	Speculative Building	Embedded	3.072	2018-10-11	2023	Ongoing	N/A	N/A
BRYANT	542723	Industrial	Other	Embedded	1.133	2021-09-30	2023	Ongoing	N/A	N/A
BRYANT	542726	Commercial	Other	Embedded	0.253	2021-09-30	N/A	Ongoing	N/A	N/A
BRYANT	542728	Commercial	Other	Embedded	0.849	2021-09-30	N/A	Ongoing	N/A	N/A
BRYCE	540298	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-04-06	N/A	Ongoing	N/A	N/A
BRYN MAWR	540419	Commercial	Low Duty Commercial EV Charger	Incremental	0.54	2021-09-07	N/A	Canceled	N/A	N/A
BUCK	586098	Commercial	Other	Embedded	0.613	2021-10-28	N/A	Ongoing	N/A	N/A
BUDD	519567	Agricultural	Agricultural Water Pump	Embedded	0.25	2020-11-23	N/A	Ongoing	N/A	N/A
BUFFALO	302311	Commercial	Lodging	Embedded	0.492	2019-10-17	N/A	Ongoing	N/A	N/A
BURLESON	256643	Residential	Tract Homes	Embedded	1.2	2019-10-08	2023	Ongoing	N/A	N/A
BURMA	519216	Commercial	Other	Embedded	0.81	2020-10-08	N/A	Ongoing	N/A	N/A
BURNT MOUNTAIN	54734	Industrial	Industrial Plant	Embedded	0.2	2015-12-18	N/A	Ongoing	N/A	N/A

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BURNT MOUNTAIN	519416	Industrial	Other	Embedded	0.25	2020-10-16	N/A	Ongoing	N/A	N/A
BURR	542713	Industrial	Industrial Plant	Embedded	0.55	2021-09-28	N/A	Ongoing	N/A	N/A
BURUM	59993	Agricultural	Agricultural Water Pump	Embedded	0.25	2016-04-11	N/A	Ongoing	N/A	N/A
BUSH	134692	Residential	Tract Homes	Embedded	0.242	2017-12-17	N/A	Ongoing	N/A	N/A
BUSHARD	548477	Commercial	Low Duty Commercial EV Charger	Incremental	0.813	2021-10-06	N/A	Ongoing	N/A	N/A
BUTANE	461648	Commercial	Low Duty Commercial EV Charger	Incremental	0.4	2020-09-10	N/A	Ongoing	N/A	N/A
BYER	256658	Commercial	Sports Facilities	Embedded	0.75	2019-10-09	2023	Ongoing	N/A	N/A
BYER	550483	Industrial	Data Centers	Embedded	0.75	2021-10-12	N/A	Ongoing	N/A	N/A
C B S	206548	Commercial	Speculative Building	Embedded	0.4348	2018-10-10	N/A	Ongoing	N/A	N/A
C B S	206567	Commercial	Speculative Building	Embedded	0.4348	2018-10-11	N/A	Ongoing	N/A	N/A
C B S	216086	Commercial	Speculative Building	Embedded	0.6522	2018-10-11	N/A	Ongoing	N/A	N/A
C B S	439648	Agricultural	Agricultural Water Pump	Embedded	0.25	2020-06-16	N/A	Ongoing	N/A	N/A
CABANA	540338	Industrial	Industrial Plant	Embedded	6	2021-06-21	N/A	Ongoing	N/A	N/A
CABLE	238443	Residential	Tract Homes	Embedded	0.531	2018-10-12	N/A	Ongoing	N/A	N/A
CADENCE	2921	Residential	Mega Tract Homes	Embedded	2	2013-11-04	N/A	Ongoing	N/A	N/A
CADENCE	238525	Commercial	Sports Facilities	Embedded	0.3	2018-10-12	N/A	Ongoing	N/A	N/A
CADENCE	392937	Residential	Mega Tract Homes	Embedded	1.2	2019-10-18	N/A	Ongoing	N/A	N/A
CADWAY	191953	Commercial	Other	Embedded	0.75	2018-10-09	N/A	Ongoing	N/A	N/A
CAGNEY	439605	Commercial	Low Duty Commercial EV Charger	Incremental	2.1	2020-04-21	N/A	Ongoing	N/A	N/A
CALGARY	2845	Residential	Tract Homes	Embedded	0.8	2013-06-17	N/A	Ongoing	N/A	N/A
CALGROVE	134531	Commercial	Business Park (Office Buildings)	Embedded	4.886	2017-06-08	N/A	Ongoing	N/A	N/A
CALLA	410218	Commercial	Other	Embedded	0.3	2019-10-22	N/A	Ongoing	N/A	N/A
CALLAWAY	519434	Commercial	Lodging	Embedded	0.4	2020-10-16	N/A	Ongoing	N/A	N/A
CALLAWAY	519437	Commercial	Lodging	Embedded	0.4	2020-10-16	2023	Ongoing	N/A	N/A
CALLAWAY	519471	Residential	Tract Homes	Embedded	1	2020-10-16	N/A	Ongoing	N/A	N/A
CALLAWAY	557443	Residential	Apartments	Embedded	1.55	2021-10-18	2023	Ongoing	N/A	N/A
CALLISON	519553	Agricultural	Agricultural Water Pump	Embedded	0.2174	2020-11-10	N/A	Ongoing	N/A	N/A
CALLISON	540360	Agricultural	Agricultural Water Pump	Embedded	0.2	2021-07-27	N/A	Ongoing	N/A	N/A
CALM	586099	Residential	Apartments	Embedded	0.442	2021-10-29	2024	Ongoing	N/A	N/A
CALMEN	548521	Commercial	Speculative Building	Embedded	2.132	2021-10-08	N/A	Ongoing	N/A	N/A
CALORA	206540	Commercial	Other	Embedded	2.6	2018-10-10	N/A	Ongoing	N/A	N/A
CALVO	548484	Commercial	Low Duty Commercial EV Charger	Incremental	1.355	2021-10-07	2023	Ongoing	N/A	N/A
CAMPBELL	540231	Commercial	Commercial Water Pump	Embedded	0.15	2021-02-08	N/A	Ongoing	N/A	N/A
CANBY	540290	Commercial	Shopping Centers	Embedded	0.66	2021-03-23	2023	Ongoing	N/A	N/A
CANBY	548499	Residential	Zero Net Energy (ZNE)	Embedded	0.413	2021-10-08	N/A	Ongoing	N/A	N/A
CANBY	548500	Residential	Zero Net Energy (ZNE)	Embedded	0.43	2021-10-08	N/A	Ongoing	N/A	N/A
CARAVEL	519409	Industrial	Industrial Plant	Embedded	0.95	2020-10-16	N/A	Ongoing	N/A	N/A
CARBINE	519449	Industrial	Distribution/Fulfillment Centers	Embedded	1.5	2020-10-16	N/A	Ongoing	N/A	N/A
CARBINE	519450	Commercial	Speculative Building	Embedded	0.7	2020-10-16	N/A	Ongoing	N/A	N/A
CARBINE	519453	Commercial	Speculative Building	Embedded	1.5	2020-10-16	2023	Ongoing	N/A	N/A
CARBINE	557432	Industrial	Other	Embedded	0.13	2021-10-18	2023	Ongoing	N/A	N/A
CARBINE	557476	Commercial	Speculative Building	Embedded	0.3	2021-10-18	2023	Ongoing	N/A	N/A
CARBON	557383	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	8.7	2021-10-15	2024	Ongoing	N/A	N/A
CARDINAL	550645	Residential	Custom Homes	Embedded	0.0065	2021-10-15	N/A	Ongoing	N/A	N/A
CARGO	256745	Residential	Apartments	Embedded	1.1	2019-10-15	N/A	Ongoing	N/A	N/A
CARLET	519517	Residential	Custom Homes	Embedded	1	2020-10-18	N/A	Ongoing	N/A	N/A
CARNEGIE	550593	Industrial	Cultivation	Incremental	7	2021-10-13	N/A	Ongoing	N/A	N/A
CARNELIAN	540293	Commercial	Low Duty Commercial EV Charger	Incremental	0.9	2021-03-29	N/A	Ongoing	N/A	N/A
CARPOIL	540281	Industrial	Cultivation	Incremental	3.65	2021-03-18	N/A	Ongoing	N/A	N/A
CART	410262	Commercial	Business Park (Office Buildings)	Embedded	2.5	2019-10-23	N/A	Ongoing	N/A	N/A
CASALS	550544	Commercial	Distribution/Fulfillment Centers	Embedded	1.949	2021-10-13	N/A	Ongoing	N/A	N/A
CASSIDY	550477	Commercial	Speculative Building	Embedded	1.779	2021-10-12	N/A	Ongoing	N/A	N/A
CASSIDY	550481	Commercial	Speculative Building	Embedded	0.179	2021-10-12	N/A	Ongoing	N/A	N/A
CASSINI	540460	Industrial	Cultivation	Incremental	2.5	2021-09-21	N/A	Ongoing	N/A	N/A
CASSINI	548466	Industrial	Cultivation	Incremental	0.9778	2021-10-05	N/A	Ongoing	N/A	N/A
CATALYTIC	542750	Commercial	Low Duty Commercial EV Charger	Incremental	1.084	2021-10-01	N/A	Ongoing	N/A	N/A
CATALYTIC	548439	Commercial	Low Duty Commercial EV Charger	Incremental	0.75	2021-10-04	N/A	Ongoing	N/A	N/A
CATERPILLAR	54829	Industrial	Industrial Plant	Embedded	2.422	2016-01-04	N/A	Ongoing	N/A	N/A
CATERPILLAR	256368	Industrial	Cultivation	Incremental	0.863	2018-10-13	N/A	Ongoing	N/A	N/A
CATERPILLAR	256632	Industrial	Cultivation	Incremental	1.899	2019-10-08	N/A	Ongoing	N/A	N/A
CATERPILLAR	461588	Industrial	Cultivation	Incremental	0.573	2020-08-05	N/A	Ongoing	N/A	N/A
CATERPILLAR	472938	Industrial	Cultivation	Incremental	0.4	2020-09-28	N/A	Ongoing	N/A	N/A
CATERPILLAR	472940	Industrial	Cultivation	Incremental	0.8	2020-09-28	N/A	Ongoing	N/A	N/A
CATERPILLAR	540258	Industrial	Cultivation	Incremental	1.4	2021-03-01	2023	Ongoing	N/A	N/A
CATERPILLAR	560631	Industrial	Cultivation	Incremental	1.08	2021-10-27	2024	Ongoing	N/A	N/A
CATTLE	540345	Residential	Tract Homes	Embedded	1.75	2021-06-30	N/A	Ongoing	N/A	N/A
CEDAR GLEN	135065	Commercial	Business Park (Office Buildings)	Embedded	0.355	2018-10-04	N/A	Ongoing	N/A	N/A
CEDAR GLEN	519549	Commercial	Low Duty Commercial EV Charger	Incremental	0.542	2020-10-29	N/A	Ongoing	N/A	N/A

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CELESTIAL	557451	Residential	Tract Homes	Embedded	1.98	2021-10-18	2023	Ongoing	N/A	N/A
CEMENT	540328	Industrial	Industrial Plant	Embedded	1.101	2021-06-01	N/A	Ongoing	N/A	N/A
CENTAUR	484261	Residential	Tract Homes	Embedded	1.5	2020-10-07	N/A	Ongoing	N/A	N/A
CENTINELA	31978	Commercial	Other	Embedded	1.6	2015-10-29	2023	Ongoing	N/A	N/A
CENTINELA	542717	Residential	Zero Net Energy (ZNE)	Embedded	0.526	2021-09-30	2023	Ongoing	N/A	N/A
CESSNA	134786	Residential	Tract Homes	Embedded	0.5	2017-12-27	2023	Ongoing	N/A	N/A
CHABLIS	519514	Commercial	Speculative Building	Embedded	2.3	2020-10-18	N/A	Ongoing	N/A	N/A
CHALLENGER	540450	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-09-21	N/A	Ongoing	N/A	N/A
CHANEY	519427	Industrial	Distribution/Fulfillment Centers	Embedded	0.5	2020-10-16	N/A	Ongoing	N/A	N/A
CHANEY	557468	Commercial	Schools (including universities and colleges)	Embedded	1.5	2021-10-18	2023	Ongoing	N/A	N/A
CHANEY	557471	Commercial	Speculative Building	Embedded	0.8	2021-10-18	N/A	Ongoing	N/A	N/A
CHANEY	557475	Industrial	Industrial Plant	Embedded	1	2021-10-18	2023	Ongoing	N/A	N/A
CHANEY	560618	Industrial	Cultivation	Incremental	1.2	2021-10-22	2023	Ongoing	N/A	N/A
CHANG	550556	Commercial	Distribution/Fulfillment Centers	Embedded	0.75	2021-10-13	N/A	Ongoing	N/A	N/A
CHARDONNAY	413768	Commercial	Mixed Use	Embedded	0.3	2019-10-25	2024	Ongoing	N/A	N/A
CHARIOT	191927	Residential	Tract Homes	Embedded	0.4	2018-10-08	N/A	Ongoing	N/A	N/A
CHARIOT	542768	Commercial	Shopping Centers	Embedded	0.305	2021-10-03	N/A	Ongoing	N/A	N/A
CHARTREUSE	548457	Commercial	Medical	Embedded	1.63	2021-10-05	2023	Ongoing	N/A	N/A
CHEVELLE	550550	Commercial	Low Duty Commercial EV Charger	Incremental	0.192	2021-10-13	N/A	Ongoing	N/A	N/A
CHIME	548490	Commercial	Distribution/Fulfillment Centers	Embedded	0.36	2021-10-08	N/A	Ongoing	N/A	N/A
CHOLITA	519417	Commercial	Lodging	Embedded	0.1	2020-10-16	N/A	Ongoing	N/A	N/A
CHUMASH	134632	Industrial	Speculative Building	Embedded	0.6	2017-12-04	N/A	Ongoing	N/A	N/A
CHURCH	542759	Commercial	Low Duty Commercial EV Charger	Incremental	0.75	2021-10-01	N/A	Ongoing	N/A	N/A
CISTERN	550638	Residential	Tract Homes	Embedded	0.25	2021-10-15	2023	Ongoing	N/A	N/A
CLANCY	256439	Residential	Tract Homes	Embedded	1.1	2019-01-17	N/A	Ongoing	N/A	N/A
CLARINET	3160	Commercial	Schools (including universities and colleges)	Embedded	0.678	2013-12-06	N/A	Ongoing	N/A	N/A
CLEAT	540500	Commercial	Distribution/Fulfillment Centers	Embedded	0.72	2021-09-23	N/A	Ongoing	N/A	N/A
CLERK	586101	Commercial	Commercial Water Pump	Embedded	0.346	2021-10-29	N/A	Ongoing	N/A	N/A
CLOER	28138	Agricultural	Agricultural Water Pump	Embedded	0.25	2015-02-19	N/A	Ongoing	N/A	N/A
CLOER	104359	Agricultural	Agricultural Water Pump	Embedded	0.2	2016-12-28	N/A	Ongoing	N/A	N/A
CLOER	134510	Commercial	Reservation-related	Embedded	2.2	2017-05-12	N/A	Ongoing	N/A	N/A
CLOER	519584	Industrial	Industrial Plant	Embedded	0.5625	2020-12-23	N/A	Ongoing	N/A	N/A
CLOER	548481	Agricultural	Agricultural Water Pump	Embedded	0.16	2021-10-07	N/A	Ongoing	N/A	N/A
CLUTCH	548525	Commercial	Other	Embedded	0.15	2021-10-08	N/A	Ongoing	N/A	N/A
CLYDESDALE	134745	Residential	Tract Homes	Embedded	1	2017-12-21	N/A	Ongoing	N/A	N/A
CLYDESDALE	423869	Commercial	Medical	Embedded	1	2019-10-25	N/A	Ongoing	N/A	N/A
CLYDESDALE	519442	Commercial	Medical	Embedded	2	2020-10-16	N/A	Ongoing	N/A	N/A
COACH	548455	Commercial	Mixed Use	Embedded	3.143	2021-10-05	2023	Ongoing	N/A	N/A
COACHELLA	93204	Industrial	Cultivation	Incremental	31.47	2016-10-22	N/A	Ongoing	N/A	N/A
COCHISE	550621	Residential	Other	Embedded	0.66	2021-10-14	N/A	Ongoing	N/A	N/A
COLLIER	413765	Commercial	Shopping Centers	Embedded	1	2019-10-25	N/A	Ongoing	N/A	N/A
COLLIER	557437	Residential	Tract Homes	Embedded	0.95	2021-10-18	N/A	Ongoing	N/A	N/A
COLLIER	557447	Residential	Tract Homes	Embedded	1.72	2021-10-18	2023	Ongoing	N/A	N/A
COLLINS	256634	Residential	Tract Homes	Embedded	0.5	2019-10-08	N/A	Ongoing	N/A	N/A
COLT	519435	Commercial	Shopping Centers	Embedded	0.75	2020-10-16	N/A	Ongoing	N/A	N/A
COLT	557454	Residential	Tract Homes	Embedded	0.915	2021-10-18	N/A	Ongoing	N/A	N/A
COMBAT	256445	Commercial	Other	Embedded	1.67	2019-01-22	N/A	Ongoing	N/A	N/A
CONCOURSE	540397	Commercial	Low Duty Commercial EV Charger	Incremental	0.225	2021-08-30	N/A	Canceled	N/A	N/A
CONCOURSE	550604	Industrial	Industrial Plant	Embedded	0.5	2021-10-14	N/A	Ongoing	N/A	N/A
CONEJO	475885	Commercial	Low Duty Commercial EV Charger	Incremental	0.45	2020-10-01	N/A	Ongoing	N/A	N/A
CONGRESS	586100	Commercial	Commercial Water Pump	Embedded	0.552	2021-10-29	N/A	Ongoing	N/A	N/A
CONINE	134751	Residential	Mega Tract Homes	Embedded	1.1739	2017-12-21	N/A	Ongoing	N/A	N/A
CONNECTICUT	542704	Commercial	Low Duty Commercial EV Charger	Incremental	1.625	2021-09-23	N/A	Ongoing	N/A	N/A
CONNERS	475879	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	1.2	2020-10-01	2023	Ongoing	N/A	N/A
CONNING	540337	Industrial	Industrial Plant	Embedded	2	2021-06-21	N/A	Ongoing	N/A	N/A
CONNING	540347	Commercial	Shopping Centers	Embedded	3	2021-07-08	N/A	Ongoing	N/A	N/A
CONSEJO	28178	Industrial	Industrial Plant	Embedded	5.22	2015-03-30	N/A	Ongoing	N/A	N/A
CONVEYOR	519334	Commercial	Business Park (Office Buildings)	Embedded	0.848	2020-10-15	N/A	Ongoing	N/A	N/A
CONY	557487	Commercial	Low Duty Commercial EV Charger	Incremental	0.3	2021-10-18	N/A	Ongoing	N/A	N/A
COOLER	540326	Residential	Tract Homes	Embedded	1.2	2021-05-26	2023	Ongoing	N/A	N/A
COOLEY	540343	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-06-29	N/A	Ongoing	N/A	N/A
COOPER	540361	Agricultural	Agricultural Water Pump	Embedded	0.163	2021-07-27	N/A	Ongoing	N/A	N/A
COPPERHEAD	550449	Commercial	Low Duty Commercial EV Charger	Incremental	0.813	2021-10-11	2023	Canceled	N/A	N/A
COPPERHEAD	550450	Commercial	Low Duty Commercial EV Charger	Incremental	1.625	2021-10-11	2023	Canceled	N/A	N/A
CORDOBA	439681	Commercial	Shopping Centers	Embedded	1.993	2020-07-14	2023	Ongoing	N/A	N/A
CORINTH	519448	Commercial	Medical	Embedded	3	2020-10-16	2024	Ongoing	N/A	N/A
CORNNUT	540448	Commercial	Low Duty Commercial EV Charger	Incremental	0.54	2021-09-20	N/A	Ongoing	N/A	N/A
CORNNUT	548462	Commercial	Schools (including universities and colleges)	Embedded	0.5	2021-10-05	N/A	Ongoing	N/A	N/A

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CORONADO	548476	Industrial	Data Centers	Embedded	5.7	2021-10-06	2023	Ongoing	N/A	N/A
CORPORAL	423872	Residential	Tract Homes	Embedded	0.8	2019-10-25	N/A	Ongoing	N/A	N/A
CORPORAL	519472	Residential	Tract Homes	Embedded	2	2020-10-16	2023	Ongoing	N/A	N/A
CORSAIR	519468	Residential	Tract Homes	Embedded	0.5	2020-10-16	N/A	Ongoing	N/A	N/A
COUNTERFEIT	439692	Commercial	Medical	Embedded	7.384	2020-07-15	2023	Ongoing	N/A	N/A
COUNTRYWOOD	540340	Commercial	Low Duty Commercial EV Charger	Incremental	0.54	2021-06-21	N/A	Ongoing	N/A	N/A
COUNTRYWOOD	540384	Commercial	Low Duty Commercial EV Charger	Incremental	0.812	2021-08-20	2023	Ongoing	N/A	N/A
COVENTRY	475881	Residential	Custom Homes	Embedded	0.404	2020-10-01	2023	Ongoing	N/A	N/A
CRABTREE	28279	Residential	Mega Tract Homes	Embedded	12.1404	2015-06-19	2023	Ongoing	N/A	N/A
CREE	550452	Industrial	Distribution/Fulfillment Centers	Embedded	2.111	2021-10-11	2023	Ongoing	N/A	N/A
CREEKSIDE	216066	Residential	Tract Homes	Embedded	0.725	2018-10-11	N/A	Ongoing	N/A	N/A
CREOSOTE	134713	Residential	Mega Tract Homes	Embedded	2.56	2017-12-19	2023	Ongoing	N/A	N/A
CRESTHAVEN	256387	Residential	Tract Homes	Embedded	0.2942	2018-10-14	N/A	Ongoing	N/A	N/A
CRONIN	540446	Commercial	Low Duty Commercial EV Charger	Incremental	0.175	2021-09-20	N/A	Ongoing	N/A	N/A
CROSSLEY	256434	Industrial	Cultivation	Incremental	14	2019-01-15	N/A	Ongoing	N/A	N/A
CROSSLEY	519335	Industrial	Cultivation	Incremental	4	2020-10-15	N/A	Ongoing	N/A	N/A
CRUMVILLE	256779	Commercial	Lodging	Embedded	0.3	2019-10-16	N/A	Ongoing	N/A	N/A
CRUMVILLE	550520	Residential	Apartments	Embedded	0.342	2021-10-13	2023	Ongoing	N/A	N/A
CRUZ	519438	Commercial	Mixed Use	Embedded	0.3	2020-10-16	2024	Ongoing	N/A	N/A
CUERVO	557497	Commercial	Speculative Building	Embedded	24.9	2021-10-18	2024	Ongoing	N/A	N/A
CUMMINS	256628	Industrial	Cultivation	Incremental	1.08	2019-10-08	N/A	Ongoing	N/A	N/A
CUMMINS	560623	Industrial	Cultivation	Incremental	0.1876	2021-10-27	N/A	Ongoing	N/A	N/A
CUMMINS	560634	Industrial	Cultivation	Incremental	0.864	2021-10-28	2023	Ongoing	N/A	N/A
CUPPLES	134957	Commercial	Other	Embedded	4.5	2018-05-09	N/A	Ongoing	N/A	N/A
CUPPLES	540356	Commercial	Low Duty Commercial EV Charger	Incremental	4.696	2021-07-19	N/A	Ongoing	N/A	N/A
CURTIS	439571	Agricultural	Agricultural Water Pump	Embedded	0.268	2020-02-14	N/A	Ongoing	N/A	N/A
CYANIDE	542729	Commercial	Mixed Use	Embedded	0.7	2021-09-30	2024	Ongoing	N/A	N/A
CYMBAL	115967	Residential	Tract Homes	Embedded	1.2	2017-01-20	N/A	Ongoing	N/A	N/A
DAFFODIL	540451	Commercial	Low Duty Commercial EV Charger	Incremental	0.54	2021-09-21	N/A	Ongoing	N/A	N/A
DAIRYMAN	548502	Commercial	Distribution/Fulfillment Centers	Embedded	0.562	2021-10-08	N/A	Ongoing	N/A	N/A
DAIRYMAN	548515	Commercial	Business Park (Office Buildings)	Embedded	0.375	2021-10-08	N/A	Ongoing	N/A	N/A
DAIRYMAN	557386	Commercial	Speculative Building	Embedded	0.19	2021-10-18	2023	Ongoing	N/A	N/A
DALBERG	550598	Commercial	Distribution/Fulfillment Centers	Embedded	0.473	2021-10-14	N/A	Ongoing	N/A	N/A
DALESIDE	439547	Residential	Zero Net Energy (ZNE)	Embedded	0.569	2020-01-13	N/A	Ongoing	N/A	N/A
DALMATIAN	548513	Commercial	Shopping Centers	Embedded	2.5	2021-10-08	N/A	Ongoing	N/A	N/A
DALMATIAN	548516	Commercial	Speculative Building	Embedded	0.407	2021-10-08	N/A	Ongoing	N/A	N/A
DALMATIAN	548528	Commercial	Speculative Building	Embedded	0.0703	2021-10-08	N/A	Ongoing	N/A	N/A
DANBY	548533	Commercial	Low Duty Commercial EV Charger	Incremental	0.7	2021-10-10	N/A	Ongoing	N/A	N/A
DANGERFIELD	550527	Industrial	Industrial Plant	Embedded	1.7	2021-10-13	2023	Ongoing	N/A	N/A
DANIELS	519238	Commercial	Mixed Use	Embedded	1.06	2020-10-09	2023	Ongoing	N/A	N/A
DANISH	519500	Residential	Tract Homes	Embedded	0.49	2020-10-17	N/A	Ongoing	N/A	N/A
DANISH	519501	Residential	Tract Homes	Embedded	1.3	2020-10-17	N/A	Ongoing	N/A	N/A
DANUBE	195451	Residential	Tract Homes	Embedded	0.1215	2018-10-09	N/A	Ongoing	N/A	N/A
DARTMOUTH	519428	Agricultural	Agricultural Water Pump	Embedded	0.4	2020-10-16	N/A	Ongoing	N/A	N/A
DARTMOUTH	519429	Agricultural	Agricultural Water Pump	Embedded	0.5	2020-10-16	N/A	Ongoing	N/A	N/A
DARTMOUTH	519431	Commercial	Shopping Centers	Embedded	0.6	2020-10-16	N/A	Ongoing	N/A	N/A
DARTMOUTH	519432	Commercial	Shopping Centers	Embedded	0.0109	2020-10-16	N/A	Ongoing	N/A	N/A
DAVENPORT	540242	Residential	Tract Homes	Embedded	2.1215	2021-02-25	2023	Ongoing	N/A	N/A
DAVIE	519235	Industrial	Cultivation	Incremental	3.28	2020-10-08	N/A	Ongoing	N/A	N/A
DAVIE	550605	Industrial	Industrial Plant	Embedded	0.425	2021-10-14	N/A	Ongoing	N/A	N/A
DEARBORN	519419	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	2.5	2020-10-16	N/A	Ongoing	N/A	N/A
DEBUG	238472	Commercial	Mixed Use	Embedded	2.5	2018-10-12	N/A	Ongoing	N/A	N/A
DEBUG	238474	Residential	Zero Net Energy (ZNE)	Embedded	0.571	2018-10-12	N/A	Ongoing	N/A	N/A
DEBUG	439583	Commercial	Low Duty Commercial EV Charger	Incremental	1.1	2020-03-04	N/A	Ongoing	N/A	N/A
DEBUG	540486	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	0.5	2021-09-23	N/A	Ongoing	N/A	N/A
DEERFIELD	540316	Commercial	Low Duty Commercial EV Charger	Incremental	0.12	2021-05-06	N/A	Ongoing	N/A	N/A
DELARRO	540331	Commercial	Schools (including universities and colleges)	Embedded	0.325	2021-06-04	2023	Ongoing	N/A	N/A
DELAWARE	410189	Commercial	Mixed Use	Embedded	0.98	2019-10-22	2023	Ongoing	N/A	N/A
DELCO	519396	Residential	Tract Homes	Embedded	1.05	2020-10-16	N/A	Ongoing	N/A	N/A
DESMOND	519286	Commercial	Mixed Use	Embedded	0.641	2020-10-13	N/A	Ongoing	N/A	N/A
DESSAU	548508	Commercial	Commercial Water Pump	Embedded	0.5	2021-10-08	2023	Ongoing	N/A	N/A
DIAZ	519514	Commercial	Speculative Building	Embedded	2.3	2020-10-18	N/A	Ongoing	N/A	N/A
DIAZ	557396	Commercial	Distribution/Fulfillment Centers	Embedded	1	2021-10-18	N/A	Ongoing	N/A	N/A
DIAZ	557428	Commercial	Commercial Water Pump	Embedded	0.5	2021-10-18	2023	Ongoing	N/A	N/A
DINGY	540470	Commercial	Business Park (Office Buildings)	Embedded	0.45	2021-09-22	N/A	Ongoing	N/A	N/A
DIPLOMAT	557483	Commercial	Distribution/Fulfillment Centers	Embedded	0.627	2021-10-18	N/A	Ongoing	N/A	N/A
DITCH	519296	Commercial	Schools (including universities and colleges)	Embedded	2.75	2020-10-14	2023	Ongoing	N/A	N/A
DIVISION	557382	Commercial	Low Duty Commercial EV Charger	Incremental	0.362	2021-10-15	N/A	Ongoing	N/A	N/A

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DIXON	540420	Commercial	Low Duty Commercial EV Charger	Incremental	1.625	2021-09-07	2024	Ongoing	N/A	N/A
DODGE	410229	Industrial	Cultivation	Incremental	2.494	2019-10-22	2023	Ongoing	N/A	N/A
DOERNER	548448	Commercial	Business Park (Office Buildings)	Embedded	0.15	2021-10-04	N/A	Ongoing	N/A	N/A
DOERNER	550517	Commercial	Other	Embedded	1.55	2021-10-13	N/A	Ongoing	N/A	N/A
DOGWOOD	542748	Commercial	Mixed Use	Embedded	0.75	2021-10-01	N/A	Ongoing	N/A	N/A
DONERT	439606	Commercial	Other	Embedded	0.5	2020-04-21	N/A	Ongoing	N/A	N/A
DONERT	540269	Industrial	Distribution/Fulfillment Centers	Embedded	1.058	2021-03-10	N/A	Ongoing	N/A	N/A
DONNER	2830	Residential	Mega Tract Homes	Embedded	5	2013-04-30	N/A	Ongoing	N/A	N/A
DORAN	256545	Agricultural	Agricultural Water Pump	Embedded	0.2	2019-08-02	N/A	Ongoing	N/A	N/A
DORAN	439596	Agricultural	Agricultural Water Pump	Embedded	0.35	2020-04-02	N/A	Ongoing	N/A	N/A
DORMAN	413766	Industrial	Cultivation	Incremental	1.3	2019-10-25	N/A	Ongoing	N/A	N/A
DORMAN	413769	Industrial	Cultivation	Incremental	2	2019-10-25	N/A	Ongoing	N/A	N/A
DORMAN	557397	Industrial	Cultivation	Incremental	1	2021-10-18	2023	Ongoing	N/A	N/A
DORMAN	557400	Industrial	Cultivation	Incremental	0.715	2021-10-18	N/A	Ongoing	N/A	N/A
DORMAN	557401	Industrial	Cultivation	Incremental	1	2021-10-18	N/A	Ongoing	N/A	N/A
DOROF	519443	Commercial	Mixed Use	Embedded	0.5	2020-10-16	N/A	Ongoing	N/A	N/A
DORSEY	461664	Commercial	Distribution/Fulfillment Centers	Embedded	0.5	2020-09-24	2023	Ongoing	N/A	N/A
DRAKE	519570	Industrial	Industrial Plant	Embedded	0.163	2020-11-23	N/A	Ongoing	N/A	N/A
DREYER	256499	Residential	Other	Embedded	0.5	2019-04-16	N/A	Ongoing	N/A	N/A
DRISKILL	106829	Residential	Tract Homes	Embedded	0.12	2016-12-30	N/A	Ongoing	N/A	N/A
DRONE	550529	Industrial	Industrial Plant	Embedded	0.5	2021-10-13	2023	Ongoing	N/A	N/A
DRUM	542705	Commercial	Commercial Water Pump	Embedded	0.26	2021-09-23	N/A	Ongoing	N/A	N/A
DRY CANYON	542770	Commercial	Low Duty Commercial EV Charger	Incremental	0.57	2021-10-03	N/A	Ongoing	N/A	N/A
DUFFER	519321	Commercial	Low Duty Commercial EV Charger	Incremental	0.525	2020-10-14	N/A	Ongoing	N/A	N/A
DUMAS	519221	Commercial	Schools (including universities and colleges)	Embedded	1	2020-10-08	N/A	Ongoing	N/A	N/A
DUMAS	519222	Commercial	Schools (including universities and colleges)	Embedded	2.5	2020-10-08	N/A	Ongoing	N/A	N/A
DUNLAP	519275	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	2.025	2020-10-13	N/A	Ongoing	N/A	N/A
DYNAMICS	550548	Industrial	Speculative Building	Embedded	5.5	2021-10-13	N/A	Ongoing	N/A	N/A
EAGLE	461567	Industrial	Cultivation	Incremental	2.5	2020-07-20	N/A	Ongoing	N/A	N/A
EDENDALE	540363	Agricultural	Agricultural Water Pump	Embedded	0.15	2021-07-27	N/A	Ongoing	N/A	N/A
EDENDALE	540434	Agricultural	Agricultural Water Pump	Embedded	0.22	2021-09-15	N/A	Ongoing	N/A	N/A
EDINBURG	28096	Commercial	Other	Embedded	6	2015-01-20	2023	Ongoing	N/A	N/A
EDWIN	519456	Commercial	Speculative Building	Embedded	0.5	2020-10-16	N/A	Ongoing	N/A	N/A
EFFIE	134967	Industrial	Distribution/Fulfillment Centers	Embedded	1.955	2018-05-24	N/A	Ongoing	N/A	N/A
EFFIE	439672	Industrial	Distribution/Fulfillment Centers	Embedded	0.75	2020-07-10	N/A	Ongoing	N/A	N/A
EFFIE	550452	Industrial	Distribution/Fulfillment Centers	Embedded	1.911	2021-10-11	2023	Ongoing	N/A	N/A
ELECTRA	256604	Commercial	Lodging	Embedded	1.179	2019-09-26	N/A	Ongoing	N/A	N/A
ELECTRA	548453	Commercial	Low Duty Commercial EV Charger	Incremental	1.625	2021-10-04	2023	Canceled	N/A	N/A
ELMER	540368	Commercial	Low Duty Commercial EV Charger	Incremental	1.084	2021-07-29	2023	Ongoing	N/A	N/A
ELMER	548538	Commercial	Mixed Use	Embedded	0.5	2021-10-11	2023	Ongoing	N/A	N/A
ELMO	256588	Agricultural	Agricultural Water Pump	Embedded	0.3	2019-09-23	N/A	Ongoing	N/A	N/A
ELSTER	540228	Commercial	Commercial Water Pump	Embedded	0.2826	2021-02-01	N/A	Ongoing	N/A	N/A
EMPIRE	550636	Commercial	Low Duty Commercial EV Charger	Incremental	0.558	2021-10-14	N/A	Ongoing	N/A	N/A
ENERGY	54747	Residential	Tract Homes	Embedded	2.2	2015-12-18	N/A	Ongoing	N/A	N/A
ENTERPRISE	199127	Commercial	Business Park (Office Buildings)	Embedded	0.5	2018-10-10	2023	Ongoing	N/A	N/A
ENTERPRISE	410176	Residential	Tract Homes	Embedded	2.3	2019-10-21	N/A	Ongoing	N/A	N/A
ENTERPRISE	540286	Industrial	Cultivation	Incremental	3.2	2021-03-18	N/A	Ongoing	N/A	N/A
ENTRADA	191910	Commercial	Lodging	Embedded	3.3	2018-10-08	2025	Ongoing	N/A	N/A
EQUINOX	423874	Residential	Tract Homes	Embedded	1.2	2019-10-25	N/A	Ongoing	N/A	N/A
EQUINOX	557453	Residential	Tract Homes	Embedded	1.3	2021-10-18	2023	Ongoing	N/A	N/A
ERSKINE	256463	Commercial	Shopping Centers	Embedded	0.2	2019-02-25	N/A	Ongoing	N/A	N/A
ESSEX	134573	Commercial	Other	Embedded	0.8043	2017-08-31	N/A	Ongoing	N/A	N/A
ESTABAN	54947	Industrial	Refineries	Embedded	1.5	2016-01-26	2023	Ongoing	N/A	N/A
ETHANAC	134768	Residential	Tract Homes	Embedded	6.5	2017-12-22	N/A	Ongoing	N/A	N/A
EVEREST	206566	Residential	Tract Homes	Embedded	1	2018-10-11	N/A	Ongoing	N/A	N/A
EVERETT	475880	Residential	Tract Homes	Embedded	1.977	2020-10-01	2023	Ongoing	N/A	N/A
EVERETT	550510	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-10-13	N/A	Ongoing	N/A	N/A
EXECUTIVE	439550	Commercial	Lodging	Embedded	5.69	2020-01-23	2023	Ongoing	N/A	N/A
EXLINE	519366	Residential	Mixed Use	Embedded	2	2020-10-15	2023	Ongoing	N/A	N/A
FAIRHAVEN	93196	Commercial	Other	Embedded	1.6	2016-10-11	2023	Ongoing	N/A	N/A
FAIRHAVEN	542718	Commercial	Mixed Use	Embedded	1.216	2021-09-30	N/A	Ongoing	N/A	N/A
FAIRHAVEN	586107	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	3.95	2021-11-05	N/A	Ongoing	N/A	N/A
FANTASTICO	412626	Commercial	Medical	Embedded	3	2019-10-24	N/A	Ongoing	N/A	N/A
FARALLON	519492	Commercial	Low Duty Commercial EV Charger	Incremental	0.875	2020-10-17	N/A	Ongoing	N/A	N/A
FARALLON	519494	Residential	Apartments	Embedded	0.44	2020-10-17	N/A	Ongoing	N/A	N/A
FARMS	550680	Commercial	Business Park (Office Buildings)	Embedded	0.429	2021-10-15	N/A	Ongoing	N/A	N/A
FARMS	550681	Industrial	Speculative Building	Embedded	0.8	2021-10-15	N/A	Ongoing	N/A	N/A
FARMS	557090	Industrial	Speculative Building	Embedded	1	2021-10-15	2023	Ongoing	N/A	N/A

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FEDERER	550537	Commercial	Speculative Building	Embedded	0.5	2021-10-13	N/A	Ongoing	N/A	N/A
FERNSTROM	548491	Commercial	Distribution/Fulfillment Centers	Embedded	0.31	2021-10-08	N/A	Ongoing	N/A	N/A
FIG	206556	Residential	Tract Homes	Embedded	0.245	2018-10-10	N/A	Ongoing	N/A	N/A
FIG	302295	Commercial	Lodging	Embedded	3	2019-10-16	2023	Ongoing	N/A	N/A
FILBERT	548473	Commercial	Distribution/Fulfillment Centers	Embedded	0.75	2021-10-06	N/A	Ongoing	N/A	N/A
FILLY	519318	Residential	Zero Net Energy (ZNE)	Embedded	0.51	2020-10-14	2023	Ongoing	N/A	N/A
FIZZ	550486	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-10-12	N/A	Ongoing	N/A	N/A
FLAME	548520	Commercial	Distribution/Fulfillment Centers	Embedded	0.2	2021-10-08	N/A	Ongoing	N/A	N/A
FLAME	548530	Commercial	Other	Embedded	0.221	2021-10-08	N/A	Ongoing	N/A	N/A
FLASK	519278	Commercial	Shopping Centers	Embedded	0.2	2020-10-13	2023	Ongoing	N/A	N/A
FLASK	519279	Residential	Zero Net Energy (ZNE)	Embedded	0.225	2020-10-13	2023	Ongoing	N/A	N/A
FLATCAR	540236	Commercial	Low Duty Commercial EV Charger	Incremental	0.8129	2021-02-12	N/A	Ongoing	N/A	N/A
FLATCAR	550538	Commercial	Speculative Building	Embedded	0.5	2021-10-13	N/A	Ongoing	N/A	N/A
FLEETWOOD	550528	Industrial	Industrial Plant	Embedded	2.5	2021-10-13	2023	Ongoing	N/A	N/A
FLOODGATE	550608	Agricultural	Other	Embedded	0.77	2021-10-14	N/A	Ongoing	N/A	N/A
FLORENCE	503595	Commercial	Schools (including universities and colleges)	Embedded	2.35	2020-10-08	N/A	Ongoing	N/A	N/A
FLORENCE	550599	Commercial	Shopping Centers	Embedded	0.766	2021-10-14	N/A	Ongoing	N/A	N/A
FLUE	540400	Commercial	Distribution/Fulfillment Centers	Embedded	1.7	2021-09-01	N/A	Ongoing	N/A	N/A
FLYCATCHER	519338	Commercial	Mixed Use	Embedded	0.39	2020-10-15	N/A	Ongoing	N/A	N/A
FLYNN	550574	Commercial	Business Park (Office Buildings)	Embedded	2.5	2021-10-13	N/A	Ongoing	N/A	N/A
FLYNN	550632	Commercial	Low Duty Commercial EV Charger	Incremental	0.813	2021-10-14	2024	Ongoing	N/A	N/A
FLYWHEEL	542715	Industrial	Data Centers	Embedded	5.4	2021-09-29	N/A	Ongoing	N/A	N/A
FOGG	550596	Agricultural	Agricultural Water Pump	Embedded	0.213	2021-10-14	N/A	Ongoing	N/A	N/A
FONDA	542703	Commercial	Low Duty Commercial EV Charger	Incremental	1.072	2021-09-23	N/A	Ongoing	N/A	N/A
FORMOSA	540476	Residential	Zero Net Energy (ZNE)	Embedded	0.75	2021-09-22	2024	Ongoing	N/A	N/A
FORTRESS	410244	Commercial	Speculative Building	Embedded	2	2019-10-22	N/A	Ongoing	N/A	N/A
FOYT	540437	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-09-16	N/A	Canceled	N/A	N/A
FRANC	519533	Commercial	Schools (including universities and colleges)	Embedded	1	2020-10-22	N/A	Ongoing	N/A	N/A
FRANKLIN	461581	Commercial	Low Duty Commercial EV Charger	Incremental	1.548	2020-08-03	N/A	Ongoing	N/A	N/A
FRANKLIN	519239	Residential	Mixed Use	Embedded	0.5	2020-10-09	2024	Ongoing	N/A	N/A
FRATERNITY	256510	Commercial	Low Duty Commercial EV Charger	Incremental	0.7	2019-05-16	N/A	Ongoing	N/A	N/A
FREIGHTLINER	560625	Industrial	Cultivation	Incremental	4.8525	2021-10-27	2023	Ongoing	N/A	N/A
FRIENDS	548443	Commercial	Distribution/Fulfillment Centers	Embedded	0.75	2021-10-04	N/A	Ongoing	N/A	N/A
FRONTAGE	478226	Commercial	Medical	Embedded	0.7	2020-10-05	N/A	Ongoing	N/A	N/A
FRONTAGE	478227	Commercial	Other	Embedded	0.261	2020-10-05	2023	Ongoing	N/A	N/A
FROOME	191886	Commercial	Business Park (Office Buildings)	Embedded	1.5	2018-10-08	N/A	Ongoing	N/A	N/A
FUGATE	28414	Agricultural	Agricultural Water Pump	Embedded	0.2	2015-09-26	N/A	Ongoing	N/A	N/A
FUGATE	256501	Agricultural	Agricultural Water Pump	Embedded	0.3	2019-04-29	N/A	Ongoing	N/A	N/A
FUGATE	439659	Agricultural	Agricultural Water Pump	Embedded	0.15	2020-06-29	N/A	Ongoing	N/A	N/A
FUJIYAMA	238469	Residential	Tract Homes	Embedded	0.5	2018-10-12	N/A	Ongoing	N/A	N/A
FUJIYAMA	542708	Commercial	Low Duty Commercial EV Charger	Incremental	0.7609	2021-09-24	N/A	Canceled	N/A	N/A
FULLER	410180	Commercial	Mixed Use	Embedded	2.5	2019-10-22	2023	Ongoing	N/A	N/A
FULLER	410199	Commercial	Lodging	Embedded	2.5	2019-10-22	2023	Ongoing	N/A	N/A
FULLER	540474	Commercial	Other	Embedded	3.75	2021-09-22	2023	Ongoing	N/A	N/A
FURY	475872	Residential	Tract Homes	Embedded	1.082	2020-10-01	N/A	Ongoing	N/A	N/A
FURY	550531	Commercial	Speculative Building	Embedded	0.062	2021-10-13	N/A	Ongoing	N/A	N/A
GAINSBOROUGH	550457	Commercial	Lodging	Embedded	0.42	2021-10-11	N/A	Ongoing	N/A	N/A
GALAHAD	550489	Commercial	Low Duty Commercial EV Charger	Incremental	1.355	2021-10-12	N/A	Ongoing	N/A	N/A
GARBONI	195464	Commercial	Shopping Centers	Embedded	1.7	2018-10-09	2023	Ongoing	N/A	N/A
GARBONI	423880	Residential	Mixed Use	Embedded	0.6	2019-10-27	N/A	Ongoing	N/A	N/A
GARRETT	410246	Residential	Tract Homes	Embedded	0.564	2019-10-22	N/A	Ongoing	N/A	N/A
GARRETT	519502	Residential	Tract Homes	Embedded	0.759	2020-10-17	N/A	Ongoing	N/A	N/A
GARRETT	519503	Residential	Tract Homes	Embedded	0.587	2020-10-17	N/A	Ongoing	N/A	N/A
GARRETT	540350	Commercial	Low Duty Commercial EV Charger	Incremental	1.354	2021-07-09	2023	Ongoing	N/A	N/A
GAUCHO	550499	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-10-12	N/A	Canceled	N/A	N/A
GAVIN	542769	Commercial	Low Duty Commercial EV Charger	Incremental	0.45	2021-10-03	N/A	Canceled	N/A	N/A
GAYLORD	238449	Commercial	Metro and Train Lines	Embedded	1.889	2018-10-12	2026	Ongoing	N/A	N/A
GAYLORD	540463	Residential	Tract Homes	Embedded	0.774	2021-09-21	N/A	Ongoing	N/A	N/A
GAYLORD	557102	Residential	Tract Homes	Embedded	0.9	2021-10-15	N/A	Ongoing	N/A	N/A
GEARLINE	217052	Commercial	Mixed Use	Embedded	0.15	2018-10-11	N/A	Ongoing	N/A	N/A
GEARLINE	519315	Commercial	Mixed Use	Embedded	2	2020-10-14	N/A	Ongoing	N/A	N/A
GENERAL PETROLEUM	519385	Commercial	Other	Embedded	1	2020-10-16	N/A	Ongoing	N/A	N/A
GERONA	519376	Residential	Mixed Use	Embedded	0.938	2020-10-16	2023	Ongoing	N/A	N/A
GERTRUDE	550657	Commercial	Distribution/Fulfillment Centers	Embedded	0.5	2021-10-15	N/A	Ongoing	N/A	N/A
GILFILLAN	550530	Industrial	Speculative Building	Embedded	0.51	2021-10-13	N/A	Ongoing	N/A	N/A
GIRARD	557439	Residential	Tract Homes	Embedded	2.9	2021-10-18	2023	Ongoing	N/A	N/A
GIZMO	410239	Commercial	Lodging	Embedded	0.941	2019-10-22	2023	Ongoing	N/A	N/A
GLACIER	216050	Residential	Tract Homes	Embedded	0.246	2018-10-11	N/A	Ongoing	N/A	N/A

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GLADIOLA	519314	Commercial	Business Park (Office Buildings)	Embedded	1.05	2020-10-14	N/A	Ongoing	N/A	N/A
GLADSTONE	206537	Commercial	Other	Embedded	2.67	2018-10-10	N/A	Ongoing	N/A	N/A
GLEN RIDGE	540275	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-03-15	N/A	Ongoing	N/A	N/A
GLOVER	461657	Industrial	Industrial Plant	Embedded	2.13	2020-09-23	N/A	Ongoing	N/A	N/A
GOETZ	305	Residential	Mega Tract Homes	Embedded	2.8	2008-02-20	N/A	Ongoing	N/A	N/A
GOLDBUCKLE	540418	Commercial	Low Duty Commercial EV Charger	Incremental	0.75	2021-09-07	N/A	Ongoing	N/A	N/A
GOLDENBEAR	439557	Agricultural	Agricultural Water Pump	Embedded	0.548	2020-01-29	N/A	Ongoing	N/A	N/A
GOLDPAN	540401	Commercial	Low Duty Commercial EV Charger	Incremental	1.354	2021-09-01	2023	Ongoing	N/A	N/A
GOLDPAN	550519	Commercial	Distribution/Fulfillment Centers	Embedded	4.91	2021-10-13	2023	Ongoing	N/A	N/A
GOLDPAN	550617	Residential	Tract Homes	Embedded	0.8	2021-10-14	N/A	Ongoing	N/A	N/A
GOLDPAN	550640	Residential	Tract Homes	Embedded	0.288	2021-10-15	N/A	Ongoing	N/A	N/A
GOPHER	60084	Agricultural	Agricultural Water Pump	Embedded	0.25	2016-06-10	N/A	Ongoing	N/A	N/A
GOPHER	256479	Agricultural	Agricultural Water Pump	Embedded	0.25	2019-03-26	N/A	Ongoing	N/A	N/A
GOPHER	540260	Agricultural	Agricultural Water Pump	Embedded	0.25	2021-03-03	N/A	Ongoing	N/A	N/A
GOPHER	540358	Agricultural	Agricultural Water Pump	Embedded	0.45	2021-07-27	N/A	Ongoing	N/A	N/A
GOPHER	540409	Agricultural	Agricultural Water Pump	Embedded	0.175	2021-09-02	N/A	Ongoing	N/A	N/A
GOSS	550653	Residential	Tract Homes	Embedded	1.025	2021-10-15	N/A	Ongoing	N/A	N/A
GOWAN	472942	Residential	Tract Homes	Embedded	0.15	2020-09-28	N/A	Ongoing	N/A	N/A
GRAHAM	134856	Residential	Tract Homes	Embedded	0.25	2018-01-02	N/A	Ongoing	N/A	N/A
GRAPEVINE	134851	Commercial	Shopping Centers	Embedded	0.55	2018-01-02	N/A	Ongoing	N/A	N/A
GRAVEYARD	542722	Commercial	Shopping Centers	Embedded	0.3	2021-09-30	N/A	Ongoing	N/A	N/A
GRAYSON	542743	Residential	Zero Net Energy (ZNE)	Embedded	0.1675	2021-10-01	N/A	Ongoing	N/A	N/A
GREAT PARK	18730	Residential	Mega Tract Homes	Embedded	0.24	2014-08-21	N/A	Ongoing	N/A	N/A
GREEN	519561	Agricultural	Agricultural Water Pump	Embedded	0.3261	2020-11-20	2023	Ongoing	N/A	N/A
GREEN	519571	Agricultural	Agricultural Water Pump	Embedded	0.2391	2020-11-23	N/A	Ongoing	N/A	N/A
GREEN	540262	Agricultural	Agricultural Water Pump	Embedded	0.163	2021-03-03	N/A	Ongoing	N/A	N/A
GREEN	540295	Agricultural	Agriculture/Food Processing	Embedded	0.262	2021-03-31	N/A	Ongoing	N/A	N/A
GREEN ACRES	238444	Residential	Tract Homes	Embedded	0.7	2018-10-12	N/A	Ongoing	N/A	N/A
GREGG	519370	Industrial	Cultivation	Incremental	0.8	2020-10-16	2023	Ongoing	N/A	N/A
GREGG	550456	Commercial	Medical	Embedded	1	2021-10-11	N/A	Ongoing	N/A	N/A
GRENADE	461637	Commercial	Lodging	Embedded	0.457	2020-09-01	2023	Ongoing	N/A	N/A
GRINGO	550594	Commercial	Business Park (Office Buildings)	Embedded	0.75	2021-10-13	N/A	Ongoing	N/A	N/A
GRIZZLEY	519311	Commercial	Commercial Water Pump	Embedded	0.57	2020-10-14	N/A	Ongoing	N/A	N/A
GRIZZLEY	540367	Commercial	Low Duty Commercial EV Charger	Incremental	1.25	2021-07-29	N/A	Ongoing	N/A	N/A
GUITAR	28279	Residential	Mega Tract Homes	Embedded	6.5266	2015-06-19	2024	Ongoing	N/A	N/A
GUITAR	54795	Commercial	Speculative Building	Embedded	1.302	2015-12-28	N/A	Ongoing	N/A	N/A
GUITAR	191918	Commercial	Business Park (Office Buildings)	Embedded	2.494	2018-10-08	N/A	Ongoing	N/A	N/A
GUITAR	191920	Commercial	Business Park (Office Buildings)	Embedded	0.39	2018-10-08	N/A	Ongoing	N/A	N/A
GURNEY	410251	Commercial	Mixed Use	Embedded	3	2019-10-22	N/A	Ongoing	N/A	N/A
GURNEY	519518	Commercial	Distribution/Fulfillment Centers	Embedded	1.1	2020-10-18	N/A	Ongoing	N/A	N/A
GUSHER	542706	Commercial	Business Park (Office Buildings)	Embedded	0.75	2021-09-23	N/A	Ongoing	N/A	N/A
GUST	191921	Residential	Tract Homes	Embedded	0.45	2018-10-08	2023	Ongoing	N/A	N/A
HACIENDA	256644	Residential	Tract Homes	Embedded	0.75	2019-10-08	N/A	Ongoing	N/A	N/A
HACK	519564	Agricultural	Agricultural Water Pump	Embedded	0.2413	2020-11-23	N/A	Ongoing	N/A	N/A
HACK	540221	Agricultural	Agricultural Water Pump	Embedded	0.15	2021-01-15	N/A	Ongoing	N/A	N/A
HACKLER	519455	Residential	Tract Homes	Embedded	0.6	2020-10-16	2023	Ongoing	N/A	N/A
HAHN	206543	Commercial	Low Duty Commercial EV Charger	Incremental	1.12	2018-10-10	2023	Ongoing	N/A	N/A
HALEY	439684	Commercial	Other	Embedded	1.9	2020-07-14	2023	Ongoing	N/A	N/A
HALFBACK	423879	Commercial	Mixed Use	Embedded	0.5	2019-10-27	N/A	Ongoing	N/A	N/A
HALFBACK	519447	Commercial	Business Park (Office Buildings)	Embedded	0.2	2020-10-16	N/A	Ongoing	N/A	N/A
HALFBACK	560606	Residential	Tract Homes	Embedded	0.5	2021-10-19	2024	Ongoing	N/A	N/A
HALLDALE	519358	Commercial	Mixed Use	Embedded	0.575	2020-10-15	N/A	Ongoing	N/A	N/A
HALLSWORTH	519327	Commercial	Business Park (Office Buildings)	Embedded	0.4	2020-10-15	N/A	Ongoing	N/A	N/A
HALTER	540226	Industrial	Distribution/Fulfillment Centers	Embedded	1.5	2021-01-20	N/A	Ongoing	N/A	N/A
HALTER	557094	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	3.71	2021-10-15	2023	Ongoing	N/A	N/A
HALTER	560629	Commercial	Schools (including universities and colleges)	Embedded	0.702	2021-10-27	N/A	Ongoing	N/A	N/A
HAMMOCK	557473	Industrial	Other	Embedded	5	2021-10-18	2023	Ongoing	N/A	N/A
HANCOCK	302321	Commercial	Other	Embedded	1.244	2019-10-17	N/A	Ongoing	N/A	N/A
HANCOCK	542724	Commercial	Low Duty Commercial EV Charger	Incremental	8	2021-09-30	2023	Ongoing	N/A	N/A
HARLEM SPRINGS	238499	Industrial	Industrial Plant	Embedded	3.3261	2018-10-12	N/A	Ongoing	N/A	N/A
HARLEM SPRINGS	439575	Industrial	Speculative Building	Embedded	1.3	2020-02-24	N/A	Ongoing	N/A	N/A
HARLOW	557395	Commercial	Distribution/Fulfillment Centers	Embedded	5	2021-10-18	N/A	Ongoing	N/A	N/A
HARLOW	557482	Commercial	Distribution/Fulfillment Centers	Embedded	1.404	2021-10-18	N/A	Ongoing	N/A	N/A
HARMONY	540300	Agricultural	Agricultural Water Pump	Embedded	0.23	2021-04-12	N/A	Ongoing	N/A	N/A
HARNAGE	305	Residential	Mega Tract Homes	Embedded	1.6	2008-02-20	N/A	Ongoing	N/A	N/A
HARRELL	256489	Commercial	Shopping Centers	Embedded	1.25	2019-04-10	N/A	Ongoing	N/A	N/A
HARRELL	256490	Commercial	Low Duty Commercial EV Charger	Incremental	1.3539	2019-04-10	2023	Ongoing	N/A	N/A
HARRELL	439600	Agricultural	Agricultural Water Pump	Embedded	0.215	2020-04-07	N/A	Ongoing	N/A	N/A

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HARRELL	461585	Industrial	Industrial Plant	Embedded	1.837	2020-08-05	N/A	Ongoing	N/A	N/A
HARRELL	461586	Industrial	Industrial Plant	Embedded	0.484	2020-08-05	N/A	Ongoing	N/A	N/A
HARRELL	540330	Commercial	Low Duty Commercial EV Charger	Incremental	1.354	2021-06-04	N/A	Ongoing	N/A	N/A
HARRELL	540344	Residential	Zero Net Energy (ZNE)	Embedded	0.993	2021-06-30	N/A	Ongoing	N/A	N/A
HARRIER	557481	Commercial	Speculative Building	Embedded	1	2021-10-18	2023	Ongoing	N/A	N/A
HARTLE	550601	Residential	Apartments	Embedded	0.308	2021-10-14	N/A	Ongoing	N/A	N/A
HATCHERY	256616	Commercial	Shopping Centers	Embedded	1	2019-10-01	N/A	Ongoing	N/A	N/A
HATCHERY	550651	Commercial	Medical	Embedded	0.66	2021-10-15	N/A	Ongoing	N/A	N/A
HAVANA	461646	Industrial	Cultivation	Incremental	1	2020-09-08	N/A	Ongoing	N/A	N/A
HAVOC	191964	Commercial	Speculative Building	Embedded	1	2018-10-09	N/A	Ongoing	N/A	N/A
HAVOC	199132	Commercial	Speculative Building	Embedded	1.2	2018-10-10	N/A	Ongoing	N/A	N/A
HAVOC	302302	Commercial	Distribution/Fulfillment Centers	Embedded	3.5	2019-10-16	N/A	Ongoing	N/A	N/A
HAVOC	302303	Industrial	Speculative Building	Embedded	0.8	2019-10-16	2023	Ongoing	N/A	N/A
HAVOC	519202	Commercial	Speculative Building	Embedded	0.65	2020-10-08	N/A	Ongoing	N/A	N/A
HAVOC	519413	Commercial	Shopping Centers	Embedded	8.8	2020-10-16	2023	Ongoing	N/A	N/A
HAVOC	519414	Commercial	Shopping Centers	Embedded	4.8	2020-10-16	N/A	Ongoing	N/A	N/A
HAVOC	519452	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	0.558	2020-10-16	N/A	Ongoing	N/A	N/A
HAVOC	548511	Residential	Zero Net Energy (ZNE)	Embedded	0.68	2021-10-08	N/A	Ongoing	N/A	N/A
HAWTHORNE	550611	Commercial	Low Duty Commercial EV Charger	Incremental	1.935	2021-10-14	2023	Canceled	N/A	N/A
HAZEL	519114	Commercial	Business Park (Office Buildings)	Embedded	1	2020-10-08	N/A	Ongoing	N/A	N/A
HAZELNUT	548497	Commercial	Low Duty Commercial EV Charger	Incremental	1.625	2021-10-08	N/A	Ongoing	N/A	N/A
HEATHER	550540	Commercial	Other	Embedded	0.232	2021-10-13	N/A	Ongoing	N/A	N/A
HEFTLER	560615	Commercial	Distribution/Fulfillment Centers	Embedded	2	2021-10-20	N/A	Ongoing	N/A	N/A
HELENKA	560605	Commercial	Mixed Use	Embedded	0.6	2021-10-18	2023	Ongoing	N/A	N/A
HELLCAT	205520	Industrial	Speculative Building	Embedded	0.5	2018-10-10	N/A	Ongoing	N/A	N/A
HELLCAT	461625	Industrial	Speculative Building	Embedded	21.8	2020-08-27	N/A	Ongoing	N/A	N/A
HELLCAT	519204	Industrial	Speculative Building	Embedded	6.3	2020-10-08	N/A	Ongoing	N/A	N/A
HELMET	548505	Industrial	Industrial Plant	Embedded	1.446	2021-10-08	N/A	Ongoing	N/A	N/A
HELMET	548523	Commercial	Speculative Building	Embedded	0.163	2021-10-08	N/A	Ongoing	N/A	N/A
HEMACINTO	423882	Residential	Tract Homes	Embedded	0.6	2019-10-29	2023	Ongoing	N/A	N/A
HERO	412618	Industrial	Distribution/Fulfillment Centers	Embedded	1.5	2019-10-24	N/A	Ongoing	N/A	N/A
HERZ	542714	Commercial	Low Duty Commercial EV Charger	Incremental	1.355	2021-09-29	2024	Canceled	N/A	N/A
HEWITT	557464	Commercial	Commercial Water Pump	Embedded	1.5	2021-10-18	N/A	Ongoing	N/A	N/A
HEWITT	557465	Industrial	Cultivation	Incremental	2.5	2021-10-18	2023	Ongoing	N/A	N/A
HEWITT	560608	Industrial	Industrial Plant	Embedded	2.5	2021-10-19	N/A	Ongoing	N/A	N/A
HEXNUT	548498	Commercial	Low Duty Commercial EV Charger	Incremental	1.625	2021-10-08	N/A	Canceled	N/A	N/A
HIGHWAY	104362	Residential	Tract Homes	Embedded	0.346	2016-12-28	N/A	Ongoing	N/A	N/A
HIGHWAY SIX	519548	Commercial	Low Duty Commercial EV Charger	Incremental	0.813	2020-10-29	N/A	Ongoing	N/A	N/A
HILLFIELD	3209	Residential	Mega Tract Homes	Embedded	2.636	2013-12-10	N/A	Ongoing	N/A	N/A
HILTON	216051	Residential	Zero Net Energy (ZNE)	Embedded	0.1678	2018-10-11	N/A	Ongoing	N/A	N/A
HILTON	216053	Residential	Zero Net Energy (ZNE)	Embedded	0.3	2018-10-11	N/A	Ongoing	N/A	N/A
HIMALAYAS	410250	Commercial	Mixed Use	Embedded	3.4	2019-10-22	N/A	Ongoing	N/A	N/A
HOBO	548494	Commercial	Distribution/Fulfillment Centers	Embedded	0.86	2021-10-08	N/A	Ongoing	N/A	N/A
HOFER	238458	Industrial	Industrial Plant	Embedded	2	2018-10-12	N/A	Ongoing	N/A	N/A
HOLLYWOOD	439670	Commercial	Low Duty Commercial EV Charger	Incremental	1.094	2020-07-10	N/A	Ongoing	N/A	N/A
HOME	560598	Commercial	Low Duty Commercial EV Charger	Incremental	2.328	2021-10-18	N/A	Canceled	N/A	N/A
HONEYCRISP	134499	Residential	Mega Tract Homes	Embedded	2.4566	2017-04-24	N/A	Ongoing	N/A	N/A
HONOR	519379	Residential	Mixed Use	Embedded	0.323	2020-10-16	2023	Ongoing	N/A	N/A
HONOR	540321	Commercial	Shopping Centers	Embedded	1.169	2021-05-13	2023	Ongoing	N/A	N/A
HORIZON	550472	Commercial	Distribution/Fulfillment Centers	Embedded	0.6	2021-10-12	N/A	Ongoing	N/A	N/A
HOSE	548517	Commercial	Speculative Building	Embedded	0.703	2021-10-08	N/A	Ongoing	N/A	N/A
HOT SPRINGS	550503	Commercial	Schools (including universities and colleges)	Embedded	0.662	2021-10-12	N/A	Ongoing	N/A	N/A
HOUSTON	256555	Agricultural	Agriculture/Food Processing	Embedded	1.5652	2019-08-26	N/A	Ongoing	N/A	N/A
HOUSTON	519387	Agricultural	Agricultural Water Pump	Embedded	0.225	2020-10-16	N/A	Ongoing	N/A	N/A
HUEVOS	550563	Commercial	Shopping Centers	Embedded	0.15	2021-10-13	N/A	Ongoing	N/A	N/A
HUMBER	557429	Residential	Mixed Use	Embedded	1	2021-10-18	2023	Ongoing	N/A	N/A
HUNTER	557399	Commercial	Other	Embedded	0.3	2021-10-18	N/A	Ongoing	N/A	N/A
HURON	557085	Industrial	Distribution/Fulfillment Centers	Embedded	1.1	2021-10-15	2023	Ongoing	N/A	N/A
HURSTVIEW	548541	Residential	Apartments	Embedded	2	2021-10-11	2024	Ongoing	N/A	N/A
HUSKIE	519485	Commercial	Low Duty Commercial EV Charger	Incremental	0.812	2020-10-16	N/A	Ongoing	N/A	N/A
IKE	412623	Industrial	Cultivation	Incremental	0.5	2019-10-24	N/A	Ongoing	N/A	N/A
IMPALA	550553	Commercial	Commercial Water Pump	Embedded	0.8	2021-10-13	2023	Ongoing	N/A	N/A
INN	134789	Commercial	Low Duty Commercial EV Charger	Incremental	3.792	2017-12-27	N/A	Ongoing	N/A	N/A
INN	135061	Commercial	Lodging	Embedded	1	2018-10-03	N/A	Ongoing	N/A	N/A
INN	238518	Commercial	Low Duty Commercial EV Charger	Incremental	0.525	2018-10-12	N/A	Ongoing	N/A	N/A
INTERN	191904	Residential	Tract Homes	Embedded	0.07	2018-10-08	N/A	Ongoing	N/A	N/A
INTERN	550666	Commercial	Medical	Embedded	0.8	2021-10-15	N/A	Ongoing	N/A	N/A
INTERNATIONAL	134817	Industrial	Cultivation	Incremental	0.9	2017-12-28	2023	Ongoing	N/A	N/A

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INTERNATIONAL	134819	Industrial	Cultivation	Incremental	1.55	2017-12-28	N/A	Ongoing	N/A	N/A
INTERNATIONAL	134822	Industrial	Cultivation	Incremental	1.18	2017-12-28	N/A	Ongoing	N/A	N/A
INTERNATIONAL	439579	Industrial	Cultivation	Incremental	0.1118	2020-02-24	N/A	Ongoing	N/A	N/A
INTERNATIONAL	461675	Industrial	Cultivation	Incremental	0.36	2020-09-25	N/A	Ongoing	N/A	N/A
INTERNATIONAL	519590	Industrial	Cultivation	Incremental	3.915	2020-12-29	N/A	Ongoing	N/A	N/A
INTERNATIONAL	540257	Industrial	Cultivation	Incremental	0.64	2021-03-01	2023	Ongoing	N/A	N/A
INTERNATIONAL	560630	Industrial	Cultivation	Incremental	6.4	2021-10-27	2023	Ongoing	N/A	N/A
INTERSTATE	519342	Commercial	Business Park (Office Buildings)	Embedded	3.479	2020-10-15	N/A	Ongoing	N/A	N/A
INTERSTATE	542745	Commercial	Business Park (Office Buildings)	Embedded	0.659	2021-10-01	N/A	Ongoing	N/A	N/A
INTERSTATE	542746	Commercial	Business Park (Office Buildings)	Embedded	0.458	2021-10-01	N/A	Ongoing	N/A	N/A
INVADER	100701	Industrial	Cultivation	Incremental	0.7278	2016-12-27	2026	Ongoing	N/A	N/A
INVADER	519398	Industrial	Cultivation	Incremental	0.941	2020-10-16	N/A	Ongoing	N/A	N/A
INVADER	519400	Industrial	Cultivation	Incremental	1.275	2020-10-16	N/A	Ongoing	N/A	N/A
INYO LUMBER	256670	Commercial	Lodging	Embedded	1.5	2019-10-11	N/A	Ongoing	N/A	N/A
INYO LUMBER	461653	Commercial	Business Park (Office Buildings)	Embedded	1	2020-09-22	N/A	Ongoing	N/A	N/A
IONA	461610	Residential	Tract Homes	Embedded	3.483	2020-08-14	N/A	Ongoing	N/A	N/A
IRAN	206546	Commercial	Schools (including universities and colleges)	Embedded	0.3	2018-10-10	N/A	Ongoing	N/A	N/A
IRONHORSE	550546	Commercial	Other	Embedded	0.232	2021-10-13	N/A	Ongoing	N/A	N/A
IRONWOOD	412616	Industrial	Distribution/Fulfillment Centers	Embedded	2.5	2019-10-24	N/A	Ongoing	N/A	N/A
IRONWOOD	560603	Industrial	Distribution/Fulfillment Centers	Embedded	5.5	2021-10-18	2023	Ongoing	N/A	N/A
IRWIN HTS	439548	Commercial	Mixed Use	Embedded	0.335	2020-01-23	N/A	Ongoing	N/A	N/A
JADE	519491	Commercial	Commercial Water Pump	Embedded	1.5	2020-10-17	N/A	Ongoing	N/A	N/A
JADE	519495	Commercial	Schools (including universities and colleges)	Embedded	1	2020-10-17	N/A	Ongoing	N/A	N/A
JANAE	519357	Residential	Apartments	Embedded	0.527	2020-10-15	N/A	Ongoing	N/A	N/A
JANAE	586095	Commercial	Distribution/Fulfillment Centers	Embedded	0.85	2021-10-28	N/A	Ongoing	N/A	N/A
JANSS	550508	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-10-13	N/A	Ongoing	N/A	N/A
JEDI	484260	Commercial	Lodging	Embedded	0.925	2020-10-07	N/A	Ongoing	N/A	N/A
JERRY	134771	Residential	Tract Homes	Embedded	3	2017-12-22	N/A	Ongoing	N/A	N/A
JERRY	134857	Residential	Mega Tract Homes	Embedded	6	2018-01-02	2023	Ongoing	N/A	N/A
JERRY	238496	Residential	Tract Homes	Embedded	0.5	2018-10-12	N/A	Ongoing	N/A	N/A
JERRY	423867	Residential	Tract Homes	Embedded	1.3696	2019-10-25	N/A	Ongoing	N/A	N/A
JERUSALEM	225212	Commercial	Business Park (Office Buildings)	Embedded	0.25	2018-10-12	N/A	Ongoing	N/A	N/A
JERUSALEM	557435	Residential	Tract Homes	Embedded	0.3	2021-10-18	2023	Ongoing	N/A	N/A
JERUSALEM	557436	Residential	Tract Homes	Embedded	0.4	2021-10-18	2023	Ongoing	N/A	N/A
JESSIE	256778	Commercial	Shopping Centers	Embedded	0.3	2019-10-16	N/A	Ongoing	N/A	N/A
JOAQUIN	135026	Commercial	Business Park (Office Buildings)	Embedded	1.5	2018-08-16	N/A	Ongoing	N/A	N/A
JOHNBOY	475883	Commercial	Speculative Building	Embedded	0.47	2020-10-01	N/A	Ongoing	N/A	N/A
JOHNBOY	550485	Industrial	Industrial Plant	Embedded	0.5	2021-10-12	N/A	Ongoing	N/A	N/A
JONAGOLD	27997	Residential	Tract Homes	Embedded	1.6	2014-12-15	N/A	Ongoing	N/A	N/A
JOSLYN	550522	Industrial	Cultivation	Incremental	1.1	2021-10-13	N/A	Ongoing	N/A	N/A
JOSTEN	256476	Residential	Zero Net Energy (ZNE)	Embedded	0.4	2019-03-18	N/A	Ongoing	N/A	N/A
JUDGE	557489	Commercial	Low Duty Commercial EV Charger	Incremental	1.084	2021-10-18	2023	Ongoing	N/A	N/A
JUDY	256660	Commercial	Other	Embedded	0.125	2019-10-09	N/A	Ongoing	N/A	N/A
JUDY	256662	Industrial	Industrial Plant	Embedded	3.34	2019-10-09	N/A	Ongoing	N/A	N/A
JULEP	550506	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-10-12	N/A	Ongoing	N/A	N/A
JULIUS	256665	Commercial	Mixed Use	Embedded	0.3	2019-10-09	N/A	Ongoing	N/A	N/A
KAHLUA	461571	Commercial	Low Duty Commercial EV Charger	Incremental	0.45	2020-07-22	N/A	Canceled	N/A	N/A
KAPPA	548460	Commercial	Low Duty Commercial EV Charger	Incremental	0.75	2021-10-05	N/A	Ongoing	N/A	N/A
KATELLA	560624	Residential	Tract Homes	Embedded	0.695	2021-10-27	N/A	Ongoing	N/A	N/A
KATHLEEN	542716	Commercial	Mixed Use	Embedded	0.912	2021-09-29	N/A	Ongoing	N/A	N/A
KAY	519362	Commercial	Medical	Embedded	0.4	2020-10-15	N/A	Ongoing	N/A	N/A
KAY	519363	Commercial	Medical	Embedded	0.4	2020-10-15	N/A	Ongoing	N/A	N/A
KEELINE	238466	Commercial	Mixed Use	Embedded	8.8	2018-10-12	N/A	Ongoing	N/A	N/A
KELLER	519460	Commercial	Shopping Centers	Embedded	1.5	2020-10-16	N/A	Ongoing	N/A	N/A
KENNEDY	256780	Agricultural	Agricultural Water Pump	Embedded	0.228	2019-10-16	N/A	Ongoing	N/A	N/A
KENTUCKY	224225	Residential	Mixed Use	Embedded	3.4	2018-10-11	N/A	Ongoing	N/A	N/A
KENTUCKY	412615	Commercial	Lodging	Embedded	0.5	2019-10-24	N/A	Ongoing	N/A	N/A
KENWORTH	439578	Industrial	Cultivation	Incremental	3.04	2020-02-24	N/A	Ongoing	N/A	N/A
KENWORTH	550650	Industrial	Cultivation	Incremental	0.532	2021-10-15	N/A	Ongoing	N/A	N/A
KERN	550647	Industrial	Other	Embedded	1	2021-10-15	2026	Ongoing	N/A	N/A
KERN	550648	Commercial	Speculative Building	Embedded	0.593	2021-10-15	N/A	Ongoing	N/A	N/A
KERNAN	519410	Commercial	Low Duty Commercial EV Charger	Incremental	1.103	2020-10-16	N/A	Ongoing	N/A	N/A
KERNAN	542707	Commercial	Low Duty Commercial EV Charger	Incremental	0.542	2021-09-23	N/A	Ongoing	N/A	N/A
KERNAN	542754	Commercial	Low Duty Commercial EV Charger	Incremental	0.75	2021-10-01	N/A	Ongoing	N/A	N/A
KETCH	195445	Industrial	Industrial Plant	Embedded	0.706	2018-10-09	N/A	Ongoing	N/A	N/A
KILKENNY	540424	Commercial	Low Duty Commercial EV Charger	Incremental	0.812	2021-09-09	2023	Canceled	N/A	N/A
KILROY	410232	Residential	Apartments	Embedded	0.27	2019-10-22	N/A	Ongoing	N/A	N/A
KINGCOBRA	423888	Residential	Tract Homes	Embedded	0.8	2019-11-07	N/A	Ongoing	N/A	N/A

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KINGPIN	519589	Industrial	Cultivation	Incremental	1	2020-12-29	N/A	Ongoing	N/A	N/A
KINGPIN	540243	Industrial	Cultivation	Incremental	1.56	2021-03-01	2023	Ongoing	N/A	N/A
KINGPIN	540244	Industrial	Cultivation	Incremental	1	2021-03-01	2023	Ongoing	N/A	N/A
KINGPIN	540245	Industrial	Cultivation	Incremental	1	2021-03-01	2023	Ongoing	N/A	N/A
KINGPIN	540246	Industrial	Cultivation	Incremental	1	2021-03-01	2023	Ongoing	N/A	N/A
KINGPIN	540247	Industrial	Cultivation	Incremental	1	2021-03-01	2023	Ongoing	N/A	N/A
KINGPIN	540248	Industrial	Cultivation	Incremental	1	2021-03-01	2023	Ongoing	N/A	N/A
KINGPIN	540249	Industrial	Cultivation	Incremental	1	2021-03-01	2024	Ongoing	N/A	N/A
KINGPIN	540250	Industrial	Cultivation	Incremental	1	2021-03-01	2024	Ongoing	N/A	N/A
KINGPIN	540251	Industrial	Cultivation	Incremental	1	2021-03-01	2024	Ongoing	N/A	N/A
KINGPIN	540252	Industrial	Cultivation	Incremental	1	2021-03-01	2024	Ongoing	N/A	N/A
KINGPIN	540253	Industrial	Cultivation	Incremental	1	2021-03-01	2025	Ongoing	N/A	N/A
KINGPIN	540254	Industrial	Cultivation	Incremental	1	2021-03-01	2025	Ongoing	N/A	N/A
KINGPIN	540255	Industrial	Cultivation	Incremental	1	2021-03-01	2025	Ongoing	N/A	N/A
KINGPIN	540256	Industrial	Cultivation	Incremental	1	2021-03-01	2025	Ongoing	N/A	N/A
KINGPIN	560633	Industrial	Cultivation	Incremental	0.84	2021-10-28	2023	Ongoing	N/A	N/A
KLAMATH	519534	Agricultural	Agricultural Water Pump	Embedded	0.325	2020-10-23	N/A	Ongoing	N/A	N/A
KLAMATH	519576	Agricultural	Agricultural Water Pump	Embedded	0.448	2020-12-09	N/A	Ongoing	N/A	N/A
KLAMATH	540438	Commercial	Distribution/Fulfillment Centers	Embedded	2	2021-09-19	N/A	Ongoing	N/A	N/A
KLAMATH	548485	Agricultural	Agriculture/Food Processing	Embedded	0.265	2021-10-07	N/A	Ongoing	N/A	N/A
KLINGON	478238	Commercial	Business Park (Office Buildings)	Embedded	2.5	2020-10-06	N/A	Ongoing	N/A	N/A
KLINGON	540441	Commercial	Low Duty Commercial EV Charger	Incremental	1.354	2021-09-20	N/A	Ongoing	N/A	N/A
KLINGON	540447	Commercial	Low Duty Commercial EV Charger	Incremental	0.587	2021-09-20	N/A	Ongoing	N/A	N/A
KOALA	550654	Industrial	Distribution/Fulfillment Centers	Embedded	0.92	2021-10-15	N/A	Ongoing	N/A	N/A
KRAFT	550552	Commercial	Commercial Water Pump	Embedded	0.218	2021-10-13	N/A	Ongoing	N/A	N/A
KROPP	256494	Residential	Tract Homes	Embedded	2.601	2019-04-11	N/A	Ongoing	N/A	N/A
KROPP	256508	Industrial	Speculative Building	Embedded	2.4	2019-05-10	N/A	Ongoing	N/A	N/A
KROPP	410247	Commercial	Mixed Use	Embedded	0.837	2019-10-22	N/A	Ongoing	N/A	N/A
KRYPTON	134506	Residential	Tract Homes	Embedded	3.25	2017-05-07	N/A	Ongoing	N/A	N/A
KRYPTON	216090	Commercial	Business Park (Office Buildings)	Embedded	1	2018-10-11	N/A	Ongoing	N/A	N/A
KUEHNER	302294	Commercial	Speculative Building	Embedded	1.3	2019-10-16	N/A	Ongoing	N/A	N/A
KYTE	59990	Agricultural	Agricultural Water Pump	Embedded	0.2	2016-04-07	N/A	Ongoing	N/A	N/A
LA PEER	54868	Commercial	Other	Embedded	6	2016-01-11	2024	Ongoing	N/A	N/A
LA PORTE	519451	Residential	Mixed Use	Embedded	0.75	2020-10-16	2023	Ongoing	N/A	N/A
LA PORTE	548539	Residential	Tract Homes	Embedded	0.3	2021-10-11	2023	Ongoing	N/A	N/A
LA QUINTA	557389	Commercial	Commercial Water Pump	Embedded	6.25	2021-10-18	2023	Ongoing	N/A	N/A
LA SALLE	548489	Commercial	Medical	Embedded	0.747	2021-10-08	N/A	Ongoing	N/A	N/A
LAB	216040	Commercial	Speculative Building	Embedded	3.5	2018-10-11	N/A	Ongoing	N/A	N/A
LAB	256784	Commercial	Shopping Centers	Embedded	1	2019-10-16	N/A	Ongoing	N/A	N/A
LADDER	548526	Commercial	Speculative Building	Embedded	0.092	2021-10-08	N/A	Ongoing	N/A	N/A
LAIRD	519408	Commercial	Low Duty Commercial EV Charger	Incremental	0.813	2020-10-16	N/A	Ongoing	N/A	N/A
LAIRD	548444	Commercial	Shopping Centers	Embedded	0.35	2021-10-04	N/A	Ongoing	N/A	N/A
LAKERS	540465	Commercial	Sports Facilities	Embedded	0.695	2021-09-21	N/A	Ongoing	N/A	N/A
LAKOTA	134793	Commercial	Shopping Centers	Embedded	0.0201	2017-12-28	N/A	Ongoing	N/A	N/A
LAKOTA	478224	Commercial	Medical	Embedded	1.33	2020-10-05	N/A	Ongoing	N/A	N/A
LAKOTA	478229	Commercial	Business Park (Office Buildings)	Embedded	0.664	2020-10-05	N/A	Ongoing	N/A	N/A
LANZA	439682	Agricultural	Agricultural Water Pump	Embedded	0.208	2020-07-14	N/A	Ongoing	N/A	N/A
LAPINS	27831	Residential	Mega Tract Homes	Embedded	0.9	2014-10-31	N/A	Ongoing	N/A	N/A
LAPINS	413773	Commercial	Medical	Embedded	4	2019-10-25	N/A	Ongoing	N/A	N/A
LARABEE	216104	Commercial	Low Duty Commercial EV Charger	Incremental	1.548	2018-10-11	N/A	Ongoing	N/A	N/A
LARABEE	540475	Commercial	Mixed Use	Embedded	0.75	2021-09-22	2024	Ongoing	N/A	N/A
LARCH	519276	Commercial	Distribution/Fulfillment Centers	Embedded	3	2020-10-13	N/A	Ongoing	N/A	N/A
LARREA	550624	Commercial	Shopping Centers	Embedded	0.345	2021-10-14	2023	Ongoing	N/A	N/A
LARTHIEEN	548456	Commercial	Medical	Embedded	0.998	2021-10-05	N/A	Ongoing	N/A	N/A
LATCHFORD	519224	Commercial	Low Duty Commercial EV Charger	Incremental	0.5	2020-10-08	N/A	Ongoing	N/A	N/A
LAUDA	519425	Agricultural	Agriculture / Food Processing	Embedded	2.5	2020-10-16	N/A	Ongoing	N/A	N/A
LAUDA	557469	Industrial	Other	Embedded	10	2021-10-18	2025	Ongoing	N/A	N/A
LAWMAN	540385	Commercial	Low Duty Commercial EV Charger	Incremental	2.165	2021-08-20	N/A	Ongoing	N/A	N/A
LAWRENCE	548463	Commercial	Sports Facilities	Embedded	0.625	2021-10-05	N/A	Ongoing	N/A	N/A
LAWS	439607	Commercial	Low Duty Commercial EV Charger	Incremental	1.355	2020-04-24	N/A	Ongoing	N/A	N/A
LAWSON	548495	Commercial	Distribution/Fulfillment Centers	Embedded	1.75	2021-10-08	N/A	Ongoing	N/A	N/A
LAZARO	2799	Residential	Tract Homes	Embedded	0.2	2013-01-23	N/A	Ongoing	N/A	N/A
LEAD	191923	Industrial	Industrial Plant	Embedded	1	2018-10-08	N/A	Ongoing	N/A	N/A
LEAD	373970	Residential	Tract Homes	Embedded	3.663	2019-10-17	2024	Ongoing	N/A	N/A
LEMOND	191886	Commercial	Business Park (Office Buildings)	Embedded	4.175	2018-10-08	N/A	Ongoing	N/A	N/A
LEMOND	413760	Industrial	Data Centers	Embedded	15.5	2019-10-24	N/A	Ongoing	N/A	N/A
LENA	540332	Commercial	Low Duty Commercial EV Charger	Incremental	2.749	2021-06-09	2023	Ongoing	N/A	N/A
LEO	540365	Residential	Tract Homes	Embedded	0.57	2021-07-28	N/A	Ongoing	N/A	N/A

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LETTUCE	519372	Industrial	Cultivation	Incremental	0.43	2020-10-16	2023	Ongoing	N/A	N/A
LETTUCE	548534	Industrial	Cultivation	Incremental	11.57	2021-10-10	2023	Ongoing	N/A	N/A
LEVEL	550468	Commercial	Distribution/Fulfillment Centers	Embedded	1.466	2021-10-12	N/A	Ongoing	N/A	N/A
LIBERATOR	540430	Commercial	Low Duty Commercial EV Charger	Incremental	4.33	2021-09-13	2023	Canceled	N/A	N/A
LIMITED	557449	Residential	Tract Homes	Embedded	0.8	2021-10-18	2023	Ongoing	N/A	N/A
LINDA VISTA	134905	Industrial	Cultivation	Incremental	1.37	2018-03-03	N/A	Ongoing	N/A	N/A
LINDA VISTA	557494	Residential	Mega Tract Homes	Embedded	7.7	2021-10-18	N/A	Ongoing	N/A	N/A
LINDA VISTA	557496	Industrial	Cultivation	Incremental	1.33	2021-10-18	N/A	Ongoing	N/A	N/A
LINDER	439666	Agricultural	Agricultural Water Pump	Embedded	0.215	2020-07-09	N/A	Ongoing	N/A	N/A
LISA ANNE	540491	Commercial	Low Duty Commercial EV Charger	Incremental	0.45	2021-09-23	N/A	Ongoing	N/A	N/A
LISA ANNE	548458	Commercial	Other	Embedded	0.513	2021-10-05	N/A	Ongoing	N/A	N/A
LITHIUM	410182	Commercial	Business Park (Office Buildings)	Embedded	1.1	2019-10-22	N/A	Ongoing	N/A	N/A
LIVERMORE	238506	Residential	Tract Homes	Embedded	0.86	2018-10-12	N/A	Ongoing	N/A	N/A
LOCAL	216039	Commercial	Business Park (Office Buildings)	Embedded	1.4	2018-10-11	N/A	Ongoing	N/A	N/A
LOCAL	540479	Commercial	Mixed Use	Embedded	4	2021-09-22	2024	Ongoing	N/A	N/A
LOCK	519339	Residential	Zero Net Energy (ZNE)	Embedded	0.23	2020-10-15	N/A	Ongoing	N/A	N/A
LOCKNER	519469	Residential	Tract Homes	Embedded	0.25	2020-10-16	N/A	Ongoing	N/A	N/A
LOFTUS	586096	Commercial	Speculative Building	Embedded	0.643	2021-10-28	N/A	Ongoing	N/A	N/A
LOMBARD	216110	Commercial	Business Park (Office Buildings)	Embedded	5.486	2018-10-11	N/A	Ongoing	N/A	N/A
LONDON	461608	Commercial	Commercial Water Pump	Embedded	2.343	2020-08-13	2023	Ongoing	N/A	N/A
LOPEZ	256618	Commercial	Business Park (Office Buildings)	Embedded	1.7	2019-10-01	2023	Ongoing	N/A	N/A
LUCKMAN	548445	Commercial	Low Duty Commercial EV Charger	Incremental	0.998	2021-10-04	2023	Canceled	N/A	N/A
LUISENO	519441	Commercial	Commercial Water Pump	Embedded	1	2020-10-16	N/A	Ongoing	N/A	N/A
LUNA	475886	Commercial	Low Duty Commercial EV Charger	Incremental	0.475	2020-10-01	N/A	Ongoing	N/A	N/A
LUPINE	317876	Industrial	Cultivation	Incremental	2.3	2019-10-17	N/A	Ongoing	N/A	N/A
LUPINE	484264	Commercial	Business Park (Office Buildings)	Embedded	0.428	2020-10-07	2023	Ongoing	N/A	N/A
LUPINE	550679	Industrial	Cultivation	Incremental	2	2021-10-15	2023	Ongoing	N/A	N/A
LUSK	238446	Residential	Tract Homes	Embedded	2.4548	2018-10-12	N/A	Ongoing	N/A	N/A
LYONS	134531	Commercial	Business Park (Office Buildings)	Embedded	3.2568	2017-06-08	N/A	Ongoing	N/A	N/A
LYONS	542719	Residential	Tract Homes	Embedded	0.576	2021-09-30	N/A	Ongoing	N/A	N/A
LYTLE	550554	Industrial	Industrial Plant	Embedded	0.5	2021-10-13	N/A	Ongoing	N/A	N/A
M.G.M.	238495	Commercial	Mixed Use	Embedded	0.5	2018-10-12	N/A	Ongoing	N/A	N/A
M.G.M.	439665	Commercial	Low Duty Commercial EV Charger	Incremental	0.774	2020-07-08	N/A	Ongoing	N/A	N/A
MACADAMIA	439678	Residential	Mixed Use	Embedded	4	2020-07-13	N/A	Ongoing	N/A	N/A
MACHINE	519333	Commercial	Speculative Building	Embedded	1.73	2020-10-15	N/A	Ongoing	N/A	N/A
MACK	256369	Commercial	Low Duty Commercial EV Charger	Incremental	0.672	2018-10-13	N/A	Ongoing	N/A	N/A
MACOMBER	540359	Agricultural	Agricultural Water Pump	Embedded	0.2	2021-07-27	N/A	Ongoing	N/A	N/A
MACOMBER	548479	Agricultural	Agricultural Water Pump	Embedded	0.35	2021-10-06	N/A	Ongoing	N/A	N/A
MAGENTA	540501	Commercial	Business Park (Office Buildings)	Embedded	0.5	2021-09-23	N/A	Ongoing	N/A	N/A
MAIZE	407577	Commercial	Mixed Use	Embedded	1.74	2019-10-21	2024	Ongoing	N/A	N/A
MAIZE	548524	Commercial	Lodging	Embedded	0.548	2021-10-08	N/A	Ongoing	N/A	N/A
MALLET	410264	Commercial	Lodging	Embedded	1.409	2019-10-23	N/A	Ongoing	N/A	N/A
MANZANILLO	439588	Agricultural	Agricultural Water Pump	Embedded	0.209	2020-03-16	N/A	Ongoing	N/A	N/A
MANZANILLO	439645	Agricultural	Agricultural Water Pump	Embedded	0.196	2020-06-15	N/A	Ongoing	N/A	N/A
MAR VISTA	410190	Commercial	Business Park (Office Buildings)	Embedded	0.4	2019-10-22	2023	Ongoing	N/A	N/A
MAR VISTA	519563	Commercial	Low Duty Commercial EV Charger	Incremental	0.774	2020-11-23	N/A	Ongoing	N/A	N/A
MAR VISTA	540483	Commercial	Mixed Use	Embedded	0.55	2021-09-22	2023	Ongoing	N/A	N/A
MARAUDER	439629	Agricultural	Agricultural Water Pump	Embedded	0.163	2020-05-22	N/A	Ongoing	N/A	N/A
MARAUDER	439630	Industrial	Industrial Plant	Embedded	0.336	2020-05-22	N/A	Ongoing	N/A	N/A
MARAUDER	461651	Agricultural	Agricultural Water Pump	Embedded	0.138	2020-09-15	N/A	Ongoing	N/A	N/A
MARAUDER	519528	Agricultural	Agricultural Water Pump	Embedded	0.372	2020-10-22	N/A	Ongoing	N/A	N/A
MARAUDER	540312	Agricultural	Agriculture/Food Processing	Embedded	3.326	2021-05-04	N/A	Ongoing	N/A	N/A
MARBLE	472960	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	0.75	2020-09-29	2023	Ongoing	N/A	N/A
MARBLE	550539	Commercial	Speculative Building	Embedded	0.75	2021-10-13	N/A	Ongoing	N/A	N/A
MARBUCK	548527	Commercial	Distribution/Fulfillment Centers	Embedded	0.4	2021-10-08	N/A	Ongoing	N/A	N/A
MARCUS	100693	Residential	Tract Homes	Embedded	0.518	2016-12-26	N/A	Ongoing	N/A	N/A
MARENDALE	519426	Commercial	Business Park (Office Buildings)	Embedded	0.925	2020-10-16	N/A	Ongoing	N/A	N/A
MARENDALE	548544	Commercial	Mixed Use	Embedded	1	2021-10-11	2023	Ongoing	N/A	N/A
MARENDALE	550454	Commercial	Lodging	Embedded	1.6	2021-10-11	2024	Ongoing	N/A	N/A
MARK	557086	Residential	Tract Homes	Embedded	1.5	2021-10-15	2024	Ongoing	N/A	N/A
MARLAND	519273	Commercial	Shopping Centers	Embedded	0.6	2020-10-13	2023	Ongoing	N/A	N/A
MARLENE	540482	Industrial	Other	Embedded	0.5	2021-09-22	N/A	Ongoing	N/A	N/A
MARSH	439556	Agricultural	Agricultural Water Pump	Embedded	0.2	2020-01-28	N/A	Ongoing	N/A	N/A
MARSHALL	238494	Commercial	Business Park (Office Buildings)	Embedded	0.5	2018-10-12	N/A	Ongoing	N/A	N/A
MARSHALL	540489	Commercial	Business Park (Office Buildings)	Embedded	0.75	2021-09-23	2024	Ongoing	N/A	N/A
MARTIAN	550620	Industrial	Cultivation	Incremental	2.7	2021-10-14	2023	Ongoing	N/A	N/A
MARTIAN	560602	Industrial	Cultivation	Incremental	9.9	2021-10-18	2023	Ongoing	N/A	N/A
MARTINELLI	550487	Commercial	Business Park (Office Buildings)	Embedded	0.325	2021-10-12	N/A	Ongoing	N/A	N/A

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MASONRY	134800	Industrial	Industrial Plant	Embedded	2	2017-12-28	N/A	Ongoing	N/A	N/A
MATTERHORN	206569	Residential	Tract Homes	Embedded	2.007	2018-10-11	N/A	Ongoing	N/A	N/A
MAULHARDT	540287	Commercial	Low Duty Commercial EV Charger	Incremental	0.45	2021-03-18	N/A	Ongoing	N/A	N/A
MAUNA LOA	550652	Commercial	Other	Embedded	0.5	2021-10-15	N/A	Ongoing	N/A	N/A
MC ALLISTER	256566	Residential	Tract Homes	Embedded	0.3707	2019-09-13	2026	Ongoing	N/A	N/A
MCBEAN	256602	Commercial	Speculative Building	Embedded	0.1372	2019-09-26	N/A	Ongoing	N/A	N/A
MCBEAN	478221	Commercial	Other	Embedded	1.6744	2020-10-03	N/A	Ongoing	N/A	N/A
MC CLOUD	519217	Residential	Zero Net Energy (ZNE)	Embedded	0.675	2020-10-08	N/A	Ongoing	N/A	N/A
MCCLURE	540238	Agricultural	Agricultural Water Pump	Embedded	0.36	2021-02-22	N/A	Ongoing	N/A	N/A
MCKEEVER	373971	Commercial	Mixed Use	Embedded	4.042	2019-10-17	N/A	Ongoing	N/A	N/A
MCLAUGHLIN	557455	Residential	Tract Homes	Embedded	0.815	2021-10-18	N/A	Ongoing	N/A	N/A
MEAGAN	256586	Commercial	Medical	Embedded	2.58	2019-09-18	2025	Ongoing	N/A	N/A
MEANDER	410181	Commercial	Lodging	Embedded	5.4	2019-10-22	2024	Ongoing	N/A	N/A
MECHANIC	410227	Residential	Mega Tract Homes	Embedded	2.628	2019-10-22	N/A	Ongoing	N/A	N/A
MEDAL	519328	Commercial	Medical	Embedded	1.035	2020-10-15	N/A	Ongoing	N/A	N/A
MEDAL	519329	Commercial	Lodging	Embedded	0.877	2020-10-15	N/A	Ongoing	N/A	N/A
MEDUSA	540480	Commercial	Low Duty Commercial EV Charger	Incremental	2.438	2021-09-22	N/A	Ongoing	N/A	N/A
MELODY	550622	Commercial	Lodging	Embedded	1	2021-10-14	2024	Ongoing	N/A	N/A
MELON	550619	Industrial	Cultivation	Incremental	1.197	2021-10-14	2023	Ongoing	N/A	N/A
MELROSE	410180	Commercial	Mixed Use	Embedded	3.25	2019-10-22	2023	Ongoing	N/A	N/A
MENDOCINO	439677	Residential	Tract Homes	Embedded	1.008	2020-07-13	N/A	Ongoing	N/A	N/A
MENDOZA	317877	Residential	Zero Net Energy (ZNE)	Embedded	0.525	2019-10-17	N/A	Ongoing	N/A	N/A
MENDOZA	373972	Residential	Zero Net Energy (ZNE)	Embedded	1.061	2019-10-17	N/A	Ongoing	N/A	N/A
MENDOZA	373973	Commercial	Shopping Centers	Embedded	5.125	2019-10-17	N/A	Ongoing	N/A	N/A
MENDOZA	373974	Commercial	Shopping Centers	Embedded	2.6	2019-10-17	N/A	Ongoing	N/A	N/A
MENDOZA	519326	Commercial	Other	Embedded	0.75	2020-10-15	N/A	Ongoing	N/A	N/A
MENDOZA	540389	Commercial	Shopping Centers	Embedded	2.083	2021-08-23	2023	Ongoing	N/A	N/A
MENDOZA	542732	Commercial	Temporary Power	Incremental	0	2021-09-30	N/A	Ongoing	N/A	N/A
MENTRY	15733	Residential	Custom Homes	Embedded	0.555	2014-02-21	2023	Ongoing	N/A	N/A
MERCER	238527	Commercial	Medical	Embedded	0.3	2018-10-12	N/A	Ongoing	N/A	N/A
MEREDITH	238505	Industrial	Speculative Building	Embedded	7.945	2018-10-12	N/A	Ongoing	N/A	N/A
MERRIT	59963	Agricultural	Agricultural Water Pump	Embedded	0.3	2016-03-24	N/A	Ongoing	N/A	N/A
MERRIT	93172	Agricultural	Agricultural Water Pump	Embedded	0.15	2016-09-20	N/A	Ongoing	N/A	N/A
MERRIT	135006	Agricultural	Agricultural Water Pump	Embedded	0.25	2018-07-19	N/A	Ongoing	N/A	N/A
MERRIT	439649	Agricultural	Agriculture/Food Processing	Embedded	0.8261	2020-06-16	N/A	Ongoing	N/A	N/A
MERRIT	519585	Agricultural	Agricultural Water Pump	Embedded	0.15	2020-12-23	N/A	Ongoing	N/A	N/A
MERRYMAN	134961	Industrial	Industrial Plant	Embedded	0.5	2018-05-11	N/A	Ongoing	N/A	N/A
MESQUITE	256492	Residential	Zero Net Energy (ZNE)	Embedded	16.3	2019-04-10	2023	Ongoing	N/A	N/A
MESQUITE	256493	Commercial	Schools (including universities and colleges)	Embedded	0.325	2019-04-10	2025	Ongoing	N/A	N/A
METALLIC	410227	Residential	Mega Tract Homes	Embedded	2.627	2019-10-22	N/A	Ongoing	N/A	N/A
METALLIC	557493	Commercial	Speculative Building	Embedded	5.478	2021-10-18	N/A	Ongoing	N/A	N/A
METRO	557103	Commercial	Speculative Building	Embedded	1.2	2021-10-15	N/A	Ongoing	N/A	N/A
MIDGE	256446	Agricultural	Agricultural Water Pump	Embedded	0.21	2019-01-28	N/A	Ongoing	N/A	N/A
MIDGE	519581	Agricultural	Agricultural Water Pump	Embedded	0.615	2020-12-23	N/A	Ongoing	N/A	N/A
MIDORI	412613	Industrial	Other	Embedded	7.75	2019-10-23	N/A	Ongoing	N/A	N/A
MIDORI	550541	Commercial	Speculative Building	Embedded	0.06	2021-10-13	N/A	Ongoing	N/A	N/A
MILLERGROVE	302310	Commercial	Other	Embedded	1.08	2019-10-17	2023	Ongoing	N/A	N/A
MILO	134543	Commercial	Low Duty Commercial EV Charger	Incremental	1.355	2017-06-30	N/A	Ongoing	N/A	N/A
MINNESOTA	411395	Commercial	Shopping Centers	Embedded	6.514	2019-10-23	N/A	Ongoing	N/A	N/A
MINNOW	548440	Industrial	Other	Embedded	0.799	2021-10-04	N/A	Ongoing	N/A	N/A
MINNOW	548441	Commercial	Speculative Building	Embedded	0.945	2021-10-04	N/A	Ongoing	N/A	N/A
MINOR	557462	Commercial	Commercial Water Pump	Embedded	0.585	2021-10-18	N/A	Ongoing	N/A	N/A
MINOR	557463	Commercial	Commercial Water Pump	Embedded	0.585	2021-10-18	N/A	Ongoing	N/A	N/A
MINT CANYON	478219	Commercial	Low Duty Commercial EV Charger	Incremental	15.4412	2020-10-03	N/A	Canceled	N/A	N/A
MISSISSIPPI	256544	Residential	Tract Homes	Embedded	0.858	2019-07-30	N/A	Ongoing	N/A	N/A
MONARCH	100671	Residential	Tract Homes	Embedded	0.25	2016-12-16	N/A	Ongoing	N/A	N/A
MONEY	28293	Commercial	Business Park (Office Buildings)	Embedded	5.1	2015-07-07	N/A	Ongoing	N/A	N/A
MONOPOLY	135026	Commercial	Business Park (Office Buildings)	Embedded	1.5	2018-08-16	N/A	Ongoing	N/A	N/A
MONROE	439674	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	0.2	2020-07-10	N/A	Ongoing	N/A	N/A
MONROE	540408	Industrial	Other	Embedded	0.492	2021-09-02	N/A	Ongoing	N/A	N/A
MONSON	134955	Commercial	Business Park (Office Buildings)	Embedded	0.75	2018-05-07	N/A	Ongoing	N/A	N/A
MONSOON	540498	Commercial	Low Duty Commercial EV Charger	Incremental	1.328	2021-09-23	N/A	Ongoing	N/A	N/A
MONTANA	548451	Commercial	Low Duty Commercial EV Charger	Incremental	0.75	2021-10-04	N/A	Ongoing	N/A	N/A
MONTCLAIR	540351	Commercial	Low Duty Commercial EV Charger	Incremental	4.696	2021-07-09	N/A	Ongoing	N/A	N/A
MOODY	302324	Industrial	Other	Embedded	0.5	2019-10-17	N/A	Ongoing	N/A	N/A
MOODY	586097	Commercial	Speculative Building	Embedded	0.468	2021-10-28	N/A	Ongoing	N/A	N/A
MORA	550532	Commercial	Commercial Water Pump	Embedded	2.226	2021-10-13	N/A	Ongoing	N/A	N/A
MORAN	557104	Commercial	Metro and Train Lines	Embedded	1.871	2021-10-15	N/A	Ongoing	N/A	N/A

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MORELAND	550474	Commercial	Speculative Building	Embedded	0.45	2021-10-12	N/A	Ongoing	N/A	N/A
MORELLO	395544	Commercial	Distribution/Fulfillment Centers	Embedded	9.3	2019-10-21	N/A	Ongoing	N/A	N/A
MORGANSTEIN	256654	Agricultural	Other	Embedded	0.75	2019-10-09	N/A	Ongoing	N/A	N/A
MORITZ	548535	Commercial	Other	Embedded	0.3	2021-10-10	N/A	Ongoing	N/A	N/A
MORRIS	557450	Commercial	Business Park (Office Buildings)	Embedded	1.2	2021-10-18	N/A	Ongoing	N/A	N/A
MOSEBROOK	134422	Residential	Tract Homes	Embedded	0.35	2017-02-13	N/A	Ongoing	N/A	N/A
MOSEBROOK	519207	Commercial	Business Park (Office Buildings)	Embedded	0.17	2020-10-08	2023	Ongoing	N/A	N/A
MOSQUITO	191946	Industrial	Industrial Plant	Embedded	7.42	2018-10-09	N/A	Ongoing	N/A	N/A
MOSQUITO	548512	Commercial	Commercial Water Pump	Embedded	0.75	2021-10-08	N/A	Ongoing	N/A	N/A
MUGU	195449	Commercial	Business Park (Office Buildings)	Embedded	2.1	2018-10-09	2024	Ongoing	N/A	N/A
MUGU	256571	Industrial	Industrial Plant	Embedded	3.5	2019-09-16	N/A	Ongoing	N/A	N/A
MUGU	519299	Commercial	Business Park (Office Buildings)	Embedded	2	2020-10-14	2023	Ongoing	N/A	N/A
MUNICH	475	Residential	Mega Tract Homes	Embedded	2.5	2008-06-19	N/A	Ongoing	N/A	N/A
MUNICH	59975	Residential	Mega Tract Homes	Embedded	0.438	2016-04-04	N/A	Ongoing	N/A	N/A
MUNICH	59976	Residential	Mega Tract Homes	Embedded	0.565	2016-04-04	N/A	Ongoing	N/A	N/A
MUNICH	59977	Residential	Mega Tract Homes	Embedded	0.64	2016-04-04	N/A	Ongoing	N/A	N/A
NAPA	557438	Residential	Tract Homes	Embedded	0.9	2021-10-18	2023	Ongoing	N/A	N/A
NAPA	557440	Residential	Tract Homes	Embedded	1.76	2021-10-18	N/A	Ongoing	N/A	N/A
NAPA	557441	Residential	Tract Homes	Embedded	0.433	2021-10-18	2023	Ongoing	N/A	N/A
NATALIE	200964	Residential	Tract Homes	Embedded	4	2018-10-10	N/A	Ongoing	N/A	N/A
NAVY	519257	Commercial	Commercial Water Pump	Embedded	1.5	2020-10-10	N/A	Ongoing	N/A	N/A
NAVY	519258	Commercial	Mixed Use	Embedded	0.89	2020-10-10	2023	Ongoing	N/A	N/A
NELLES	550515	Commercial	Other	Embedded	0.927	2021-10-13	2023	Ongoing	N/A	N/A
NELSON	519397	Commercial	Other	Embedded	1.2	2020-10-16	N/A	Ongoing	N/A	N/A
NELSON	542753	Commercial	Shopping Centers	Embedded	0.5	2021-10-01	2023	Ongoing	N/A	N/A
NEON	238519	Commercial	Mixed Use	Embedded	0.452	2018-10-12	2023	Ongoing	N/A	N/A
NEON	519259	Commercial	Mixed Use	Embedded	0.225	2020-10-10	N/A	Ongoing	N/A	N/A
NEWMAN	540265	Agricultural	Agricultural Water Pump	Embedded	0.301	2021-03-10	N/A	Ongoing	N/A	N/A
NICKEL	557093	Commercial	Low Duty Commercial EV Charger	Incremental	1.625	2021-10-15	2023	Ongoing	N/A	N/A
NICKLIN	472946	Residential	Tract Homes	Embedded	0.36	2020-09-28	N/A	Ongoing	N/A	N/A
NIMITZ	519261	Commercial	Lodging	Embedded	0.6	2020-10-10	N/A	Ongoing	N/A	N/A
NO AMERICAN	548452	Industrial	Cultivation	Incremental	1.992	2021-10-04	2023	Ongoing	N/A	N/A
NOMAD	216061	Commercial	Business Park (Office Buildings)	Embedded	1.071	2018-10-11	2023	Ongoing	N/A	N/A
NOMEX	548532	Commercial	Schools (including universities and colleges)	Embedded	0.471	2021-10-08	N/A	Ongoing	N/A	N/A
NOOTKA	519289	Residential	Apartments	Embedded	0.5	2020-10-13	N/A	Ongoing	N/A	N/A
NORTHPARK	256587	Commercial	Distribution/Fulfillment Centers	Embedded	1.337	2019-09-23	N/A	Ongoing	N/A	N/A
NORWICH	461600	Commercial	Low Duty Commercial EV Charger	Incremental	1.161	2020-08-07	N/A	Ongoing	N/A	N/A
NORWICH	519254	Residential	Zero Net Energy (ZNE)	Embedded	0.583	2020-10-09	N/A	Ongoing	N/A	N/A
NORWICH	540375	Commercial	Low Duty Commercial EV Charger	Incremental	1.935	2021-08-06	2023	Ongoing	N/A	N/A
NORWICH	540485	Commercial	Mixed Use	Embedded	0.95	2021-09-23	N/A	Ongoing	N/A	N/A
NORWICH	550597	Commercial	Low Duty Commercial EV Charger	Incremental	1.6	2021-10-14	N/A	Ongoing	N/A	N/A
NOVA	423868	Residential	Tract Homes	Embedded	0.25	2019-10-25	N/A	Ongoing	N/A	N/A
NOVAC	412606	Residential	Tract Homes	Embedded	1.5	2019-10-23	N/A	Ongoing	N/A	N/A
NOVAC	412609	Residential	Tract Homes	Embedded	0.4	2019-10-23	N/A	Ongoing	N/A	N/A
OAKDALE	423865	Residential	Mega Tract Homes	Embedded	0.8	2019-10-25	N/A	Ongoing	N/A	N/A
OAKLAND	423886	Agricultural	Agricultural Water Pump	Embedded	0.296	2019-10-30	N/A	Ongoing	N/A	N/A
OAKLAND	461614	Industrial	Industrial Plant	Embedded	0.232	2020-08-20	N/A	Ongoing	N/A	N/A
OAKLAND	519554	Agricultural	Agricultural Water Pump	Embedded	0.4	2020-11-12	N/A	Ongoing	N/A	N/A
OBAN	302326	Industrial	Cultivation	Incremental	0.683	2019-10-17	2023	Ongoing	N/A	N/A
OBAN	517889	Commercial	Mixed Use	Embedded	0.666	2020-10-08	N/A	Ongoing	N/A	N/A
OBOE	54796	Commercial	Business Park (Office Buildings)	Embedded	7.2058	2015-12-28	N/A	Ongoing	N/A	N/A
OCANA	134527	Commercial	Lodging	Embedded	0.25	2017-06-02	N/A	Ongoing	N/A	N/A
OCANA	195461	Commercial	Business Park (Office Buildings)	Embedded	1.4	2018-10-09	2023	Ongoing	N/A	N/A
OCTANE	540223	Commercial	Low Duty Commercial EV Charger	Incremental	0.95	2021-01-15	N/A	Ongoing	N/A	N/A
OFFSIDE	134573	Commercial	Other	Embedded	1.413	2017-08-31	N/A	Ongoing	N/A	N/A
OFFSIDE	548454	Residential	Tract Homes	Embedded	0.675	2021-10-05	2023	Ongoing	N/A	N/A
OILWELL	191954	Commercial	Other	Embedded	0.8	2018-10-09	N/A	Ongoing	N/A	N/A
OILWELL	392936	Commercial	Mixed Use	Embedded	2.108	2019-10-18	N/A	Ongoing	N/A	N/A
OKLAHOMA	548470	Commercial	Low Duty Commercial EV Charger	Incremental	1.625	2021-10-06	2023	Canceled	N/A	N/A
OLD DALE	550623	Commercial	Other	Embedded	0.11	2021-10-14	N/A	Ongoing	N/A	N/A
OLIVER	519546	Industrial	Cultivation	Incremental	2	2020-10-29	N/A	Ongoing	N/A	N/A
OLNEY	548537	Commercial	Mixed Use	Embedded	0.8	2021-10-10	N/A	Ongoing	N/A	N/A
OLSON	60063	Residential	Tract Homes	Embedded	0.48	2016-05-25	2023	Ongoing	N/A	N/A
OLSON	550595	Commercial	Other	Embedded	5	2021-10-13	N/A	Ongoing	N/A	N/A
OMICRON	134471	Residential	Apartments	Embedded	0.3	2017-03-13	N/A	Ongoing	N/A	N/A
ONAGA	540412	Commercial	Low Duty Commercial EV Charger	Incremental	0.54	2021-09-03	N/A	Ongoing	N/A	N/A
ONAGA	540413	Commercial	Low Duty Commercial EV Charger	Incremental	1.084	2021-09-03	N/A	Ongoing	N/A	N/A
ONAGA	550565	Commercial	Shopping Centers	Embedded	0.2	2021-10-13	2023	Ongoing	N/A	N/A

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ORCHARDALE	519391	Commercial	Business Park (Office Buildings)	Embedded	0.34	2020-10-16	N/A	Ongoing	N/A	N/A
ORION	100694	Residential	Mega Tract Homes	Embedded	0.2941	2016-12-26	2025	Ongoing	N/A	N/A
OSNER	519565	Agricultural	Agricultural Water Pump	Embedded	0.4	2020-11-23	N/A	Ongoing	N/A	N/A
OTIS	517884	Industrial	Cultivation	Incremental	2.5	2020-10-08	N/A	Ongoing	N/A	N/A
OTIS	542730	Industrial	Cultivation	Incremental	1.561	2021-09-30	N/A	Ongoing	N/A	N/A
OUTLAW	69904	Commercial	Speculative Building	Embedded	0.8913	2016-09-12	2023	Ongoing	N/A	N/A
OUTLAW	519467	Residential	Tract Homes	Embedded	0.09	2020-10-16	N/A	Ongoing	N/A	N/A
OWENS	557491	Commercial	Distribution/Fulfillment Centers	Embedded	1.28	2021-10-18	N/A	Ongoing	N/A	N/A
P & G	134981	Industrial	Industrial Plant	Embedded	1	2018-06-11	2023	Ongoing	N/A	N/A
PABLO	519287	Residential	Tract Homes	Embedded	0.275	2020-10-13	N/A	Ongoing	N/A	N/A
PADOVA	557105	Agricultural	Agriculture Water Pump	Embedded	0.3	2021-10-15	N/A	Ongoing	N/A	N/A
PADRE	519320	Commercial	Low Duty Commercial EV Charger	Incremental	1.084	2020-10-14	N/A	Ongoing	N/A	N/A
PADRE	550501	Residential	Tract Homes	Embedded	0.31	2021-10-12	N/A	Ongoing	N/A	N/A
PADRE	550633	Commercial	Low Duty Commercial EV Charger	Incremental	1.75	2021-10-14	2023	Ongoing	N/A	N/A
PADRE	550637	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	0.656	2021-10-14	N/A	Ongoing	N/A	N/A
PAHRUMP	550513	Industrial	Cultivation	Incremental	0.172	2021-10-13	N/A	Ongoing	N/A	N/A
PALACE	256666	Industrial	Speculative Building	Embedded	4.224	2019-10-10	N/A	Ongoing	N/A	N/A
PALJAY	54906	Commercial	Shopping Centers	Embedded	0.522	2016-01-14	N/A	Ongoing	N/A	N/A
PALJAY	54946	Residential	Tract Homes	Embedded	0.49	2016-01-26	2023	Ongoing	N/A	N/A
PALMVIEW	195469	Industrial	Cultivation	Incremental	23	2018-10-09	2024	Ongoing	N/A	N/A
PALMVIEW	550618	Industrial	Cultivation	Incremental	2.5	2021-10-14	2023	Ongoing	N/A	N/A
PALMVIEW	550634	Industrial	Cultivation	Incremental	128	2021-10-14	N/A	Ongoing	N/A	N/A
PAMPAS	550476	Commercial	Speculative Building	Embedded	0.5	2021-10-12	2026	Ongoing	N/A	N/A
PANTANI	59959	Commercial	Business Park (Office Buildings)	Embedded	7.38	2016-03-23	N/A	Ongoing	N/A	N/A
PANTANI	69863	Commercial	Business Park (Office Buildings)	Embedded	10.3	2016-08-04	N/A	Ongoing	N/A	N/A
PAPOOSE	540423	Commercial	Low Duty Commercial EV Charger	Incremental	0.54	2021-09-09	N/A	Ongoing	N/A	N/A
PARAGON	2928	Residential	Tract Homes	Embedded	5.774	2013-11-07	N/A	Ongoing	N/A	N/A
PARAGON	60025	Residential	Tract Homes	Embedded	0.3	2016-04-28	N/A	Ongoing	N/A	N/A
PARCELLS	548492	Commercial	Distribution/Fulfillment Centers	Embedded	0.3	2021-10-08	N/A	Ongoing	N/A	N/A
PARROT	206535	Commercial	Other	Embedded	0.55	2018-10-10	N/A	Ongoing	N/A	N/A
PARSONS	54928	Residential	Tract Homes	Embedded	0.9	2016-01-21	N/A	Ongoing	N/A	N/A
PASEO	206570	Industrial	Speculative Building	Embedded	0.5217	2018-10-11	N/A	Ongoing	N/A	N/A
PASS	256498	Commercial	Low Duty Commercial EV Charger	Incremental	0.7	2019-04-16	N/A	Ongoing	N/A	N/A
PASS	439686	Residential	Apartments	Embedded	1.5	2020-07-14	2023	Ongoing	N/A	N/A
PAT	224250	Commercial	Lodging	Embedded	0.415	2018-10-12	N/A	Ongoing	N/A	N/A
PAT	410237	Commercial	Lodging	Embedded	1.4706	2019-10-22	2023	Ongoing	N/A	N/A
PAT	519371	Residential	Apartments	Embedded	0.672	2020-10-16	N/A	Ongoing	N/A	N/A
PATENCIO	557388	Residential	Tract Homes	Embedded	0.368	2021-10-18	N/A	Ongoing	N/A	N/A
PATHE	461630	Commercial	Low Duty Commercial EV Charger	Incremental	1.935	2020-08-27	N/A	Ongoing	N/A	N/A
PATHE	540382	Commercial	Low Duty Commercial EV Charger	Incremental	0.55	2021-08-20	N/A	Ongoing	N/A	N/A
PATIO	519240	Commercial	Lodging	Embedded	1.4282	2020-10-09	N/A	Ongoing	N/A	N/A
PATIO	519572	Commercial	Low Duty Commercial EV Charger	Incremental	5.087	2020-11-24	N/A	Ongoing	N/A	N/A
PATIO	519573	Commercial	Low Duty Commercial EV Charger	Incremental	1.116	2020-11-24	N/A	Ongoing	N/A	N/A
PATRON	542709	Commercial	Low Duty Commercial EV Charger	Incremental	1.6304	2021-09-24	2023	Ongoing	N/A	N/A
PAYNE	540273	Commercial	Low Duty Commercial EV Charger	Incremental	0.63	2021-03-12	N/A	Ongoing	N/A	N/A
PEACH	542735	Industrial	Cultivation	Incremental	2.5	2021-09-30	N/A	Ongoing	N/A	N/A
PEANUT	191956	Residential	Tract Homes	Embedded	0.5	2018-10-09	N/A	Ongoing	N/A	N/A
PEANUT	256511	Residential	Mixed Use	Embedded	2.2	2019-05-20	N/A	Ongoing	N/A	N/A
PEARCY	519594	Commercial	Low Duty Commercial EV Charger	Incremental	0.15	2021-01-05	N/A	Ongoing	N/A	N/A
PECAN	519523	Industrial	Data Centers	Embedded	1.2	2020-10-21	N/A	Ongoing	N/A	N/A
PECAN	548469	Industrial	Other	Embedded	1.5	2021-10-05	N/A	Ongoing	N/A	N/A
PEDRO	550585	Residential	Tract Homes	Embedded	1.5	2021-10-13	2025	Ongoing	N/A	N/A
PEGASO	225218	Industrial	Cultivation	Incremental	1.012	2018-10-12	N/A	Ongoing	N/A	N/A
PEGASO	238445	Industrial	Cultivation	Incremental	1.012	2018-10-12	N/A	Ongoing	N/A	N/A
PEGASO	238447	Industrial	Cultivation	Incremental	1.012	2018-10-12	N/A	Ongoing	N/A	N/A
PEGASO	519587	Industrial	Cultivation	Incremental	3.4875	2020-12-29	2023	Ongoing	N/A	N/A
PELICAN	126423	Commercial	Other	Embedded	0.3	2017-02-03	N/A	Ongoing	N/A	N/A
PELICAN	206536	Commercial	Commercial Water Pump	Embedded	0.55	2018-10-10	N/A	Ongoing	N/A	N/A
PELICAN	540461	Industrial	Cultivation	Incremental	3.75	2021-09-21	N/A	Ongoing	N/A	N/A
PENGUIN	134874	Commercial	Business Park (Office Buildings)	Embedded	3	2018-01-09	N/A	Ongoing	N/A	N/A
PENROSE	542738	Residential	Zero Net Energy (ZNE)	Embedded	0.193	2021-10-01	N/A	Ongoing	N/A	N/A
PENSTOCK	550613	Residential	Tract Homes	Embedded	0.99	2021-10-14	2023	Ongoing	N/A	N/A
PENSTOCK	550641	Residential	Tract Homes	Embedded	0.7	2021-10-15	N/A	Ongoing	N/A	N/A
PENTHOUSE	542766	Residential	Zero Net Energy (ZNE)	Embedded	1.1	2021-10-01	2023	Ongoing	N/A	N/A
PENTHOUSE	542767	Residential	Zero Net Energy (ZNE)	Embedded	0.875	2021-10-01	2023	Ongoing	N/A	N/A
PESO	550512	Commercial	Shopping Centers	Embedded	0.15	2021-10-13	N/A	Ongoing	N/A	N/A
PETERBILT	134612	Industrial	Cultivation	Incremental	0.75	2017-10-31	N/A	Ongoing	N/A	N/A
PETERBILT	134614	Industrial	Cultivation	Incremental	4.275	2017-10-31	2023	Ongoing	N/A	N/A

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PETERBILT	134820	Industrial	Cultivation	Incremental	1.6	2017-12-28	N/A	Ongoing	N/A	N/A
PETERBILT	134823	Industrial	Cultivation	Incremental	5.4	2017-12-28	N/A	Ongoing	N/A	N/A
PETERBILT	134828	Industrial	Cultivation	Incremental	0.75	2017-12-28	N/A	Ongoing	N/A	N/A
PETERBILT	225216	Industrial	Cultivation	Incremental	1.012	2018-10-12	N/A	Ongoing	N/A	N/A
PETERBILT	238434	Industrial	Cultivation	Incremental	1.012	2018-10-12	N/A	Ongoing	N/A	N/A
PETERBILT	238454	Industrial	Cultivation	Incremental	1.012	2018-10-12	N/A	Ongoing	N/A	N/A
PETERBILT	238456	Industrial	Cultivation	Incremental	1.012	2018-10-12	N/A	Ongoing	N/A	N/A
PETERBILT	238457	Industrial	Cultivation	Incremental	1.012	2018-10-12	N/A	Ongoing	N/A	N/A
PETERBILT	238483	Industrial	Cultivation	Incremental	1.012	2018-10-12	N/A	Ongoing	N/A	N/A
PETERBILT	238486	Industrial	Cultivation	Incremental	1.012	2018-10-12	N/A	Ongoing	N/A	N/A
PETERBILT	238488	Industrial	Cultivation	Incremental	1.012	2018-10-12	N/A	Ongoing	N/A	N/A
PETERBILT	238491	Industrial	Cultivation	Incremental	1.012	2018-10-12	N/A	Ongoing	N/A	N/A
PETERBILT	238508	Industrial	Cultivation	Incremental	1.012	2018-10-12	N/A	Ongoing	N/A	N/A
PETERBILT	256350	Industrial	Cultivation	Incremental	2.73	2018-10-13	N/A	Ongoing	N/A	N/A
PETERBILT	256366	Industrial	Cultivation	Incremental	4.395	2018-10-13	2023	Ongoing	N/A	N/A
PETERBILT	439599	Industrial	Cultivation	Incremental	0.185	2020-04-03	N/A	Ongoing	N/A	N/A
PETERBILT	472949	Industrial	Cultivation	Incremental	0.957	2020-09-29	N/A	Ongoing	N/A	N/A
PETERBILT	472950	Industrial	Cultivation	Incremental	0.957	2020-09-29	N/A	Ongoing	N/A	N/A
PETERBILT	472951	Industrial	Cultivation	Incremental	0.957	2020-09-29	N/A	Ongoing	N/A	N/A
PETERBILT	472952	Industrial	Cultivation	Incremental	0.957	2020-09-29	N/A	Ongoing	N/A	N/A
PETERBILT	472953	Industrial	Cultivation	Incremental	0.957	2020-09-29	N/A	Ongoing	N/A	N/A
PETERBILT	472954	Industrial	Cultivation	Incremental	0.957	2020-09-29	N/A	Ongoing	N/A	N/A
PETERBILT	472955	Industrial	Cultivation	Incremental	0.957	2020-09-29	N/A	Ongoing	N/A	N/A
PETERBILT	472956	Industrial	Cultivation	Incremental	0.957	2020-09-29	N/A	Ongoing	N/A	N/A
PETERBILT	472957	Industrial	Cultivation	Incremental	0.957	2020-09-29	N/A	Ongoing	N/A	N/A
PETERBILT	472958	Industrial	Cultivation	Incremental	0.957	2020-09-29	N/A	Ongoing	N/A	N/A
PETERBILT	519538	Industrial	Cultivation	Incremental	0.675	2020-10-23	N/A	Ongoing	N/A	N/A
PETERBILT	560628	Industrial	Cultivation	Incremental	1.4	2021-10-27	N/A	Ongoing	N/A	N/A
PETERBILT	560636	Industrial	Cultivation	Incremental	1.44	2021-10-28	2023	Ongoing	N/A	N/A
PETERBILT	560637	Industrial	Cultivation	Incremental	2.88	2021-10-28	2023	Ongoing	N/A	N/A
PETROL	27926	Commercial	Other	Embedded	0.6	2014-12-10	N/A	Ongoing	N/A	N/A
PETROL	519386	Commercial	Medical	Embedded	0.5	2020-10-16	N/A	Ongoing	N/A	N/A
PHANTOM	519415	Commercial	Shopping Centers	Embedded	9.1	2020-10-16	2023	Ongoing	N/A	N/A
PHOENIX	54783	Residential	Tract Homes	Embedded	2.091	2015-12-23	N/A	Ongoing	N/A	N/A
PHOTON	18652	Residential	Mega Tract Homes	Embedded	11.1087	2014-06-02	N/A	Ongoing	N/A	N/A
PHOTON	69898	Commercial	Other	Embedded	3.5	2016-09-12	N/A	Ongoing	N/A	N/A
PHOTON	134841	Residential	Tract Homes	Embedded	3.31	2017-12-29	N/A	Ongoing	N/A	N/A
PHOTON	519464	Residential	Tract Homes	Embedded	0.8	2020-10-16	N/A	Ongoing	N/A	N/A
PHOTON	519465	Commercial	Shopping Centers	Embedded	0.8	2020-10-16	2023	Ongoing	N/A	N/A
PHOTON	557448	Residential	Tract Homes	Embedded	3.7	2021-10-18	2023	Ongoing	N/A	N/A
PHOTON	557459	Residential	Tract Homes	Embedded	0.647	2021-10-18	N/A	Ongoing	N/A	N/A
PICKENS	540428	Commercial	Low Duty Commercial EV Charger	Incremental	0.7647	2021-09-10	N/A	Canceled	N/A	N/A
PICKLE MEADOWS	550642	Industrial	Other	Embedded	0.15	2021-10-15	N/A	Ongoing	N/A	N/A
PIEDRA	423873	Residential	Tract Homes	Embedded	0.6522	2019-10-25	N/A	Ongoing	N/A	N/A
PIERSON	560600	Commercial	Distribution/Fulfillment Centers	Embedded	10	2021-10-18	2023	Ongoing	N/A	N/A
PIERSON	560601	Industrial	Cultivation	Incremental	20	2021-10-18	2023	Ongoing	N/A	N/A
PIGSKIN	519444	Commercial	Medical	Embedded	1	2020-10-16	N/A	Ongoing	N/A	N/A
PILGRIM	540310	Commercial	Low Duty Commercial EV Charger	Incremental	2.167	2021-05-03	2023	Ongoing	N/A	N/A
PINEWOOD	134772	Commercial	Speculative Building	Embedded	4	2017-12-22	2024	Ongoing	N/A	N/A
PINEWOOD	557457	Commercial	Business Park (Office Buildings)	Embedded	0.3	2021-10-18	2023	Ongoing	N/A	N/A
PINEWOOD	557472	Commercial	Speculative Building	Embedded	0.4	2021-10-18	N/A	Ongoing	N/A	N/A
PINEWOOD	557474	Commercial	Other	Embedded	1	2021-10-18	N/A	Ongoing	N/A	N/A
PINEWOOD	557478	Commercial	Speculative Building	Embedded	0.3	2021-10-18	2023	Ongoing	N/A	N/A
PINEWOOD	557479	Commercial	Speculative Building	Embedded	0.3	2021-10-18	N/A	Ongoing	N/A	N/A
PINEWOOD	557480	Commercial	Distribution/Fulfillment Centers	Embedded	0.3	2021-10-18	2023	Ongoing	N/A	N/A
PINEWOOD	560603	Industrial	Distribution/Fulfillment Centers	Embedded	1.5	2021-10-18	N/A	Ongoing	N/A	N/A
PINOCHLE	399066	Industrial	Cultivation	Incremental	0.5	2019-10-21	N/A	Ongoing	N/A	N/A
PINT	548449	Industrial	Other	Embedded	0.607	2021-10-04	2023	Ongoing	N/A	N/A
PINT	550521	Industrial	Cultivation	Incremental	1.5	2021-10-13	2023	Ongoing	N/A	N/A
PISCES	395540	Residential	Tract Homes	Embedded	0.15	2019-10-21	N/A	Ongoing	N/A	N/A
PISCES	410260	Residential	Tract Homes	Embedded	1.287	2019-10-23	2023	Ongoing	N/A	N/A
PISTACHIO	519524	Commercial	Low Duty Commercial EV Charger	Incremental	0.401	2020-10-21	N/A	Ongoing	N/A	N/A
PISTOLA	54837	Residential	Tract Homes	Embedded	0.5322	2016-01-05	N/A	Ongoing	N/A	N/A
PITZER	238449	Commercial	Metro and Train Lines	Embedded	3.042	2018-10-12	2026	Ongoing	N/A	N/A
PLATINUM	410155	Commercial	Other	Embedded	0.4	2019-10-21	N/A	Ongoing	N/A	N/A
PLAYBOY	540477	Residential	Zero Net Energy (ZNE)	Embedded	0.5	2021-09-22	2023	Ongoing	N/A	N/A
PLAYBOY	540478	Residential	Zero Net Energy (ZNE)	Embedded	0.425	2021-09-22	N/A	Ongoing	N/A	N/A
PLUMMER	519515	Commercial	Speculative Building	Embedded	2.25	2020-10-18	N/A	Ongoing	N/A	N/A

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PLUMMER	519516	Commercial	Speculative Building	Embedded	0.7	2020-10-18	N/A	Ongoing	N/A	N/A
PLUMMER	560603	Industrial	Distribution/Fulfillment Centers	Embedded	2	2021-10-18	2023	Ongoing	N/A	N/A
PLUMMER	560617	Industrial	Cultivation	Incremental	0.8	2021-10-22	N/A	Ongoing	N/A	N/A
POKER	548472	Commercial	Distribution/Fulfillment Centers	Embedded	0.5	2021-10-06	N/A	Ongoing	N/A	N/A
POLO	550626	Commercial	Low Duty Commercial EV Charger	Incremental	0.87	2021-10-14	N/A	Ongoing	N/A	N/A
POLO	557390	Commercial	Distribution/Fulfillment Centers	Embedded	1.5	2021-10-18	N/A	Ongoing	N/A	N/A
POND	540406	Agricultural	Agricultural Water Pump	Embedded	0.33	2021-09-02	N/A	Ongoing	N/A	N/A
PONDEROSA	540283	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-03-18	N/A	Ongoing	N/A	N/A
PONY	238523	Commercial	Other	Embedded	1	2018-10-12	N/A	Ongoing	N/A	N/A
POPPY	540445	Commercial	Low Duty Commercial EV Charger	Incremental	0.54	2021-09-20	N/A	Ongoing	N/A	N/A
PORTLAND	519264	Industrial	Load WDAT	Incremental	23	2020-10-12	2023	Ongoing	N/A	N/A
POTASH	206530	Industrial	Industrial Plant	Embedded	1	2018-10-10	N/A	Ongoing	N/A	N/A
POTASH	550482	Commercial	Low Duty Commercial EV Charger	Incremental	0.15	2021-10-12	N/A	Ongoing	N/A	N/A
POTTERY	519513	Industrial	Other	Embedded	1	2020-10-18	N/A	Ongoing	N/A	N/A
PRADO	550488	Commercial	Shopping Centers	Embedded	0.325	2021-10-12	N/A	Ongoing	N/A	N/A
PRATT	548478	Agricultural	Agricultural Water Pump	Embedded	0.125	2021-10-06	N/A	Ongoing	N/A	N/A
PRESTON	478231	Residential	Tract Homes	Embedded	1.87	2020-10-05	N/A	Ongoing	N/A	N/A
PRIMROSE	206559	Residential	Custom Homes	Embedded	0.61	2018-10-10	N/A	Ongoing	N/A	N/A
PUEBLO	412621	Industrial	Other	Embedded	1.073	2019-10-24	N/A	Ongoing	N/A	N/A
PULASKI	519536	Commercial	Distribution/Fulfillment Centers	Embedded	0.7	2020-10-23	N/A	Ongoing	N/A	N/A
PURCHASE	519353	Commercial	Other	Embedded	0.53	2020-10-15	N/A	Ongoing	N/A	N/A
PURCHASE	540272	Commercial	Low Duty Commercial EV Charger	Embedded	1.008	2021-03-12	N/A	Ongoing	N/A	N/A
PURDUE	410211	Commercial	Mixed Use	Embedded	0.75	2019-10-22	2023	Ongoing	N/A	N/A
PURDUE	519262	Residential	Mixed Use	Embedded	0.75	2020-10-10	2023	Ongoing	N/A	N/A
PURDUE	519263	Commercial	Mixed Use	Embedded	0.798	2020-10-10	N/A	Ongoing	N/A	N/A
PURDUE	540481	Commercial	Temporary Power	Incremental	0	2021-09-22	N/A	Ongoing	N/A	N/A
PUREX	540394	Commercial	Low Duty Commercial EV Charger	Incremental	0.812	2021-08-30	2023	Ongoing	N/A	N/A
PYLE	54759	Residential	Mega Tract Homes	Embedded	6.78	2015-12-21	2023	Ongoing	N/A	N/A
PYTHON	3173	Residential	Mega Tract Homes	Embedded	1.34	2013-12-07	N/A	Ongoing	N/A	N/A
QUAIL	540232	Agricultural	Agricultural Water Pump	Embedded	0.321	2021-02-08	N/A	Ongoing	N/A	N/A
QUAIL	586102	Industrial	Industrial Plant	Embedded	2.38	2021-10-29	N/A	Ongoing	N/A	N/A
QUARTERBACK	423871	Residential	Tract Homes	Embedded	0.5	2019-10-25	N/A	Ongoing	N/A	N/A
QUINTO	373976	Residential	Apartments	Embedded	0.708	2019-10-17	2024	Ongoing	N/A	N/A
RACER	3173	Residential	Mega Tract Homes	Embedded	5.535	2013-12-07	N/A	Ongoing	N/A	N/A
RADIUM	195465	Residential	Tract Homes	Embedded	0.15	2018-10-09	N/A	Ongoing	N/A	N/A
RADIUM	410193	Commercial	Other	Embedded	0.2	2019-10-22	N/A	Ongoing	N/A	N/A
RADNOR	540318	Residential	Tract Homes	Embedded	2.1305	2021-05-11	N/A	Ongoing	N/A	N/A
RADNOR	548480	Agricultural	Agricultural Water Pump	Embedded	0.275	2021-10-07	N/A	Ongoing	N/A	N/A
RAMAC	256372	Residential	Tract Homes	Embedded	3.562	2018-10-13	N/A	Ongoing	N/A	N/A
RAMBLER	410154	Commercial	Lodging	Embedded	0.75	2019-10-21	N/A	Ongoing	N/A	N/A
RAMBLER	540458	Commercial	Low Duty Commercial EV Charger	Incremental	1.125	2021-09-21	N/A	Ongoing	N/A	N/A
RANGE	256790	Commercial	Mixed Use	Embedded	1.01	2019-10-16	2023	Ongoing	N/A	N/A
RANIER	439598	Commercial	Distribution/Fulfillment Centers	Embedded	2.5	2020-04-03	N/A	Ongoing	N/A	N/A
RASMUSSEN	439672	Industrial	Distribution/Fulfillment Centers	Embedded	0.35	2020-07-10	N/A	Ongoing	N/A	N/A
RASMUSSEN	540322	Industrial	Industrial Plant	Embedded	0.694	2021-05-17	N/A	Ongoing	N/A	N/A
RASMUSSEN	540329	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	1.5	2021-06-03	N/A	Ongoing	N/A	N/A
RATTLER	3173	Residential	Mega Tract Homes	Embedded	2.441	2013-12-07	N/A	Ongoing	N/A	N/A
RAVEN	410234	Industrial	Cultivation	Incremental	2.5	2019-10-22	N/A	Ongoing	N/A	N/A
RAVEN	540459	Industrial	Cultivation	Incremental	0.7	2021-09-21	N/A	Ongoing	N/A	N/A
RAVEN	548474	Industrial	Cultivation	Incremental	3.084	2021-10-06	N/A	Ongoing	N/A	N/A
RAVEN	548475	Industrial	Cultivation	Incremental	2.647	2021-10-06	N/A	Ongoing	N/A	N/A
RAWSON	238520	Residential	Tract Homes	Embedded	1.7392	2018-10-12	N/A	Ongoing	N/A	N/A
RAYBESTOS	540425	Commercial	Low Duty Commercial EV Charger	Incremental	1.084	2021-09-09	N/A	Ongoing	N/A	N/A
READY	540284	Commercial	Low Duty Commercial EV Charger	Incremental	0.7	2021-03-18	N/A	Canceled	N/A	N/A
RECHE	412619	Industrial	Distribution/Fulfillment Centers	Embedded	0.225	2019-10-24	N/A	Ongoing	N/A	N/A
RECHE	412624	Commercial	Lodging	Embedded	0.5	2019-10-24	2023	Ongoing	N/A	N/A
RECHE	519475	Residential	Tract Homes	Embedded	0.3	2020-10-16	2023	Ongoing	N/A	N/A
RECHE	557466	Commercial	Shopping Centers	Embedded	0.5	2021-10-18	N/A	Ongoing	N/A	N/A
RECHE	557467	Commercial	Shopping Centers	Embedded	0.15	2021-10-18	N/A	Ongoing	N/A	N/A
RED BARN	550526	Commercial	Shopping Centers	Embedded	0.756	2021-10-13	N/A	Ongoing	N/A	N/A
REDBANKS	134662	Industrial	Cultivation	Incremental	5.118	2017-12-12	N/A	Ongoing	N/A	N/A
REDBANKS	256522	Industrial	Cultivation	Incremental	2.8	2019-06-04	N/A	Ongoing	N/A	N/A
REDBANKS	256598	Industrial	Cultivation	Incremental	5.8	2019-09-25	2024	Ongoing	N/A	N/A
REDBANKS	461649	Industrial	Cultivation	Incremental	1.8	2020-09-14	N/A	Ongoing	N/A	N/A
REDBANKS	550448	Industrial	Cultivation	Incremental	3.32	2021-10-11	N/A	Ongoing	N/A	N/A
REDSTONE	550567	Commercial	Shopping Centers	Embedded	1.5	2021-10-13	N/A	Ongoing	N/A	N/A
REDSTONE	550569	Commercial	Schools (including universities and colleges)	Embedded	0.3	2021-10-13	N/A	Ongoing	N/A	N/A
REDWOOD	472959	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	1.2	2020-09-29	2023	Ongoing	N/A	N/A

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REEDER	540442	Commercial	Low Duty Commercial EV Charger	Incremental	1.625	2021-09-20	2023	Canceled	N/A	N/A
REFEREE	560606	Residential	Tract Homes	Embedded	0.5	2021-10-19	2023	Ongoing	N/A	N/A
REGAL	461647	Industrial	Industrial Plant	Embedded	1.3	2020-09-08	2023	Ongoing	N/A	N/A
REIMANN	256373	Residential	Tract Homes	Embedded	0.228	2018-10-13	2023	Ongoing	N/A	N/A
REIMANN	550582	Residential	Tract Homes	Embedded	0.45	2021-10-13	2023	Ongoing	N/A	N/A
REJADA	475865	Commercial	Business Park (Office Buildings)	Embedded	0.688	2020-10-01	N/A	Ongoing	N/A	N/A
REJADA	475871	Commercial	Speculative Building	Embedded	3.309	2020-10-01	N/A	Ongoing	N/A	N/A
RELISH	519331	Commercial	Mixed Use	Embedded	1.5	2020-10-15	N/A	Ongoing	N/A	N/A
RELISH	542711	Commercial	Low Duty Commercial EV Charger	Incremental	1.625	2021-09-28	2023	Canceled	N/A	N/A
REPUBLIC	216064	Commercial	Mixed Use	Embedded	4.4116	2018-10-11	2023	Ongoing	N/A	N/A
REPUBLIC	542737	Commercial	Mixed Use	Embedded	1.5	2021-09-30	N/A	Ongoing	N/A	N/A
REXFORD	238507	Residential	Zero Net Energy (ZNE)	Embedded	0.36	2018-10-12	N/A	Ongoing	N/A	N/A
RHINE	519436	Agricultural	Agriculture/Food Processing	Embedded	1.571	2020-10-16	N/A	Ongoing	N/A	N/A
RHINEDOLLAR	134469	Industrial	Industrial Plant	Embedded	1.5	2017-03-06	2023	Ongoing	N/A	N/A
RHOADS	206541	Commercial	Other	Embedded	2.085	2018-10-10	N/A	Ongoing	N/A	N/A
RHUMBA	519359	Commercial	Schools (including universities and colleges)	Embedded	0.75	2020-10-15	N/A	Ongoing	N/A	N/A
RHUMBA	542765	Residential	Zero Net Energy (ZNE)	Embedded	0.426	2021-10-01	N/A	Ongoing	N/A	N/A
RICARDO	256370	Residential	Tract Homes	Embedded	0.345	2018-10-13	N/A	Ongoing	N/A	N/A
RICARDO	550589	Residential	Tract Homes	Embedded	0.24	2021-10-13	2024	Ongoing	N/A	N/A
RICARDO	550631	Commercial	Low Duty Commercial EV Charger	Incremental	0.542	2021-10-14	2023	Ongoing	N/A	N/A
RICHGROVE	519580	Agricultural	Agriculture/Food Processing	Embedded	0.65	2020-12-23	N/A	Ongoing	N/A	N/A
RIDGEMOOR	557460	Residential	Tract Homes	Embedded	1	2021-10-18	2023	Ongoing	N/A	N/A
RIMROCK	461570	Commercial	Low Duty Commercial EV Charger	Incremental	0.131	2020-07-21	N/A	Ongoing	N/A	N/A
RIO GRANDE	134963	Residential	Tract Homes	Embedded	0.15	2018-05-14	N/A	Ongoing	N/A	N/A
RIPTIDE	238468	Residential	Apartments	Embedded	0.75	2018-10-12	N/A	Ongoing	N/A	N/A
RIPTIDE	238524	Residential	Zero Net Energy (ZNE)	Embedded	0.35	2018-10-12	N/A	Ongoing	N/A	N/A
RIPTIDE	540373	Commercial	Low Duty Commercial EV Charger	Incremental	0.437	2021-08-06	N/A	Ongoing	N/A	N/A
ROCK	238449	Commercial	Metro and Train Lines	Embedded	1.688	2018-10-12	2026	Ongoing	N/A	N/A
ROCKET TOWN	302299	Residential	Tract Homes	Embedded	1.035	2019-10-16	N/A	Ongoing	N/A	N/A
ROCKET TOWN	461602	Commercial	Shopping Centers	Embedded	0.105	2020-08-10	N/A	Ongoing	N/A	N/A
ROCKET TOWN	550523	Commercial	Schools (including universities and colleges)	Embedded	0.828	2021-10-13	N/A	Ongoing	N/A	N/A
ROCKRIDGE	557452	Residential	Tract Homes	Embedded	0.365	2021-10-18	2023	Ongoing	N/A	N/A
RONWOOD	216083	Industrial	Industrial Plant	Embedded	1.5	2018-10-11	N/A	Ongoing	N/A	N/A
ROSE	542755	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-10-01	N/A	Ongoing	N/A	N/A
ROSSMOOR	519481	Commercial	Low Duty Commercial EV Charger	Incremental	0.3	2020-10-16	N/A	Ongoing	N/A	N/A
ROTEC	557456	Residential	Tract Homes	Embedded	1.27	2021-10-18	2023	Ongoing	N/A	N/A
ROUND VALLEY	542713	Industrial	Industrial Plant	Embedded	2.18	2021-09-28	N/A	Ongoing	N/A	N/A
ROYAL OAKS	540433	Commercial	Shopping Centers	Embedded	0.382	2021-09-14	N/A	Ongoing	N/A	N/A
RUBLE	412603	Industrial	Data Centers	Embedded	5.804	2019-10-23	N/A	Ongoing	N/A	N/A
RUBY	191945	Residential	Tract Homes	Embedded	0.85	2018-10-09	N/A	Ongoing	N/A	N/A
RUNWAY	540484	Commercial	Mixed Use	Embedded	4.046	2021-09-22	2023	Ongoing	N/A	N/A
RUSS BOYD	540259	Industrial	Cultivation	Incremental	9	2021-03-01	2024	Ongoing	N/A	N/A
RUSS BOYD	560626	Industrial	Cultivation	Incremental	4.8	2021-10-27	N/A	Ongoing	N/A	N/A
RUSS BOYD	560627	Industrial	Cultivation	Incremental	18.96	2021-10-27	2024	Ongoing	N/A	N/A
RUTGERS	134585	Industrial	Industrial Plant	Embedded	0.5	2017-09-23	N/A	Ongoing	N/A	N/A
RUTH	410147	Residential	Mixed Use	Embedded	0.5	2019-10-21	N/A	Ongoing	N/A	N/A
RUTH	540494	Commercial	Low Duty Commercial EV Charger	Incremental	0.75	2021-09-23	N/A	Ongoing	N/A	N/A
RUTTMAN	238465	Residential	Tract Homes	Embedded	1	2018-10-12	N/A	Ongoing	N/A	N/A
RYAN	134848	Commercial	Sports Facilities	Embedded	5.3	2018-01-01	2023	Ongoing	N/A	N/A
RYAN	216064	Commercial	Mixed Use	Embedded	0.8528	2018-10-11	2023	Ongoing	N/A	N/A
RYAN	542736	Commercial	Schools (including universities and colleges)	Embedded	0.6	2021-09-30	2023	Ongoing	N/A	N/A
SABER	548486	Agricultural	Agricultural Water Pump	Embedded	0.163	2021-10-07	N/A	Ongoing	N/A	N/A
SAGEHEN	461652	Agricultural	Agricultural Water Pump	Embedded	0.0043	2020-09-22	N/A	Ongoing	N/A	N/A
SAGO	302314	Residential	Zero Net Energy (ZNE)	Embedded	0.973	2019-10-17	N/A	Ongoing	N/A	N/A
SAGO	540429	Commercial	Low Duty Commercial EV Charger	Incremental	0.55	2021-09-13	N/A	Ongoing	N/A	N/A
SAKIOKA	519504	Commercial	Business Park (Office Buildings)	Embedded	0.5	2020-10-17	N/A	Ongoing	N/A	N/A
SAKIOKA	540455	Commercial	Low Duty Commercial EV Charger	Incremental	0.558	2021-09-21	N/A	Ongoing	N/A	N/A
SALMON	548442	Residential	Zero Net Energy (ZNE)	Embedded	0.6	2021-10-04	2025	Ongoing	N/A	N/A
SALT LAKE	550610	Commercial	Schools (including universities and colleges)	Embedded	2.5	2021-10-14	N/A	Ongoing	N/A	N/A
SALVADOR	410240	Commercial	Lodging	Embedded	0.75	2019-10-22	N/A	Ongoing	N/A	N/A
SAM	200969	Commercial	Metro and Train Lines	Embedded	1.8	2018-10-10	2025	Ongoing	N/A	N/A
SAN JOSE	540352	Commercial	Low Duty Commercial EV Charger	Incremental	0.55	2021-07-09	N/A	Canceled	N/A	N/A
SAN JUAN	540495	Commercial	Low Duty Commercial EV Charger	Incremental	0.837	2021-09-23	N/A	Ongoing	N/A	N/A
SAN NICHOLAS	550583	Residential	Apartments	Embedded	0.75	2021-10-13	2023	Ongoing	N/A	N/A
SANBORN	439536	Agricultural	Agriculture / Food Processing	Embedded	3	2019-12-16	N/A	Ongoing	N/A	N/A
SAND CANYON	195466	Residential	Tract Homes	Embedded	3.0736	2018-10-09	2023	Ongoing	N/A	N/A
SAND CANYON	478222	Residential	Tract Homes	Embedded	4.7316	2020-10-03	2023	Ongoing	N/A	N/A
SANDRA	519313	Residential	Zero Net Energy (ZNE)	Embedded	0.47	2020-10-14	N/A	Ongoing	N/A	N/A

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SANDY	540411	Commercial	Low Duty Commercial EV Charger	Incremental	0.75	2021-09-03	N/A	Canceled	N/A	N/A
SARGENT	519592	Agricultural	Agricultural Water Pump	Embedded	0.162	2021-01-04	N/A	Ongoing	N/A	N/A
SATURNINO	191912	Commercial	Other	Embedded	2.5	2018-10-08	2024	Ongoing	N/A	N/A
SAUCELITO	540308	Agricultural	Agricultural Water Pump	Embedded	0.215	2021-04-29	N/A	Ongoing	N/A	N/A
SAWYER	519232	Commercial	Lodging	Embedded	0.562	2020-10-08	2023	Ongoing	N/A	N/A
SAWYER	519233	Commercial	Lodging	Embedded	0.518	2020-10-08	2023	Ongoing	N/A	N/A
SAYBROOK	519237	Industrial	Cultivation	Incremental	2.557	2020-10-08	N/A	Ongoing	N/A	N/A
SAYBROOK	542742	Commercial	Shopping Centers	Embedded	0.3	2021-10-01	N/A	Ongoing	N/A	N/A
SAYBROOK	550606	Commercial	Business Park (Office Buildings)	Embedded	2.5	2021-10-14	N/A	Ongoing	N/A	N/A
SCALP	54920	Commercial	Shopping Centers	Embedded	2.5	2016-01-21	2024	Ongoing	N/A	N/A
SCHILLING	410195	Commercial	Business Park (Office Buildings)	Embedded	0.25	2019-10-22	N/A	Ongoing	N/A	N/A
SCHILLING	439689	Commercial	Low Duty Commercial EV Charger	Incremental	0.65	2020-07-15	N/A	Canceled	N/A	N/A
SCHILLING	461577	Commercial	Low Duty Commercial EV Charger	Incremental	1.116	2020-07-28	N/A	Canceled	N/A	N/A
SCHILLING	519490	Commercial	Low Duty Commercial EV Charger	Incremental	1.084	2020-10-16	N/A	Canceled	N/A	N/A
SCHMIDT	540307	Commercial	Low Duty Commercial EV Charger	Incremental	1.625	2021-04-29	N/A	Ongoing	N/A	N/A
SCHOLL	560621	Commercial	Low Duty Commercial EV Charger	Incremental	0.54	2021-10-25	N/A	Ongoing	N/A	N/A
SCHOONER	519301	Residential	Tract Homes	Embedded	0.325	2020-10-14	2023	Ongoing	N/A	N/A
SCILACCI	540372	Residential	Mega Tract Homes	Embedded	1.412	2021-08-02	2023	Ongoing	N/A	N/A
SCORPIO	191892	Residential	Apartments	Embedded	1.2	2018-10-08	2023	Ongoing	N/A	N/A
SCORPIO	540334	Industrial	Data Centers	Embedded	10	2021-06-15	N/A	Ongoing	N/A	N/A
SCOW	423899	Commercial	Low Duty Commercial EV Charger	Incremental	1.75	2019-11-26	N/A	Ongoing	N/A	N/A
SCRABBLE	191917	Commercial	Lodging	Embedded	1.2	2018-10-08	N/A	Ongoing	N/A	N/A
SCRABBLE	224232	Residential	Tract Homes	Embedded	3.5	2018-10-11	N/A	Ongoing	N/A	N/A
SEABOARD	134532	Commercial	Business Park (Office Buildings)	Embedded	3.0882	2017-06-08	N/A	Ongoing	N/A	N/A
SEABOARD	256636	Residential	Custom Homes	Embedded	0.475	2019-10-08	N/A	Ongoing	N/A	N/A
SEABOARD	292986	Commercial	Schools (including universities and colleges)	Embedded	0.58	2019-10-16	N/A	Ongoing	N/A	N/A
SEACLIFF	195479	Industrial	Cultivation	Incremental	1.45	2018-10-09	2023	Ongoing	N/A	N/A
SEACLIFF	550496	Agricultural	Agricultural Water Pump	Embedded	1.7	2021-10-12	2023	Ongoing	N/A	N/A
SEACLIFF	550505	Industrial	Industrial Plant	Embedded	0.6	2021-10-12	N/A	Ongoing	N/A	N/A
SEASIDE	410216	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	4.33	2019-10-22	2023	Ongoing	N/A	N/A
SEAWOLF	223294	Residential	Mega Tract Homes	Embedded	4	2018-10-11	N/A	Ongoing	N/A	N/A
SECRETARY	216059	Residential	Zero Net Energy (ZNE)	Embedded	0.43	2018-10-11	N/A	Ongoing	N/A	N/A
SEGERSTROM	423891	Residential	Tract Homes	Embedded	2	2019-11-13	N/A	Ongoing	N/A	N/A
SEGOVIA	238531	Commercial	Shopping Centers	Embedded	0.46	2018-10-12	N/A	Ongoing	N/A	N/A
SEGOVIA	238535	Commercial	Medical	Embedded	2	2018-10-12	2023	Ongoing	N/A	N/A
SEGURO	439694	Commercial	Other	Embedded	4	2020-07-15	2024	Ongoing	N/A	N/A
SEMINARY	519302	Commercial	Schools (including universities and colleges)	Embedded	1.5	2020-10-14	2023	Ongoing	N/A	N/A
SEMINARY	550580	Residential	Apartments	Embedded	1.6	2021-10-13	2024	Ongoing	N/A	N/A
SERENITY	135008	Commercial	Commercial Water Pump	Embedded	0.4	2018-07-23	N/A	Ongoing	N/A	N/A
SERENITY	256702	Agricultural	Agricultural Water Pump	Embedded	0.35	2019-10-14	N/A	Ongoing	N/A	N/A
SERFAS	557495	Industrial	Industrial Plant	Embedded	3.129	2021-10-18	2023	Ongoing	N/A	N/A
SERRA	126428	Industrial	Industrial Plant	Embedded	2.7	2017-02-06	2023	Ongoing	N/A	N/A
SERRANOS	548514	Commercial	Distribution/Fulfillment Centers	Embedded	0.4	2021-10-08	N/A	Ongoing	N/A	N/A
SEVILLE	134662	Industrial	Cultivation	Incremental	4	2017-12-12	N/A	Ongoing	N/A	N/A
SEVILLE	550448	Industrial	Cultivation	Incremental	2.94	2021-10-11	N/A	Ongoing	N/A	N/A
SEWELL	540449	Commercial	Low Duty Commercial EV Charger	Incremental	0.13	2021-09-21	N/A	Ongoing	N/A	N/A
SHADE	238438	Residential	Tract Homes	Embedded	3.787	2018-10-12	N/A	Ongoing	N/A	N/A
SHADE	238462	Commercial	Shopping Centers	Embedded	1.55	2018-10-12	N/A	Ongoing	N/A	N/A
SHANGRILA	550524	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	0.221	2021-10-13	N/A	Ongoing	N/A	N/A
SHEFFIELD	134940	Industrial	Cultivation	Incremental	3.9	2018-04-13	N/A	Ongoing	N/A	N/A
SHEFFIELD	550494	Industrial	Other	Embedded	0.226	2021-10-12	N/A	Ongoing	N/A	N/A
SHEFFIELD	550497	Industrial	Cultivation	Incremental	1.13	2021-10-12	N/A	Ongoing	N/A	N/A
SHEILA	542727	Commercial	Speculative Building	Embedded	0.75	2021-09-30	N/A	Ongoing	N/A	N/A
SHERBOURNE	519347	Commercial	Shopping Centers	Embedded	2.871	2020-10-15	N/A	Ongoing	N/A	N/A
SHERBOURNE	542757	Industrial	Industrial Plant	Embedded	0.425	2021-10-01	2023	Ongoing	N/A	N/A
SHOPPING	256659	Commercial	Mixed Use	Embedded	0.4	2019-10-09	N/A	Ongoing	N/A	N/A
SHOPPING	475875	Commercial	Commercial Water Pump	Embedded	0.5	2020-10-01	N/A	Ongoing	N/A	N/A
SHORELINE	519393	Residential	Zero Net Energy (ZNE)	Embedded	0.6	2020-10-16	N/A	Ongoing	N/A	N/A
SHOSHONE	519241	Industrial	Other	Embedded	0.5	2020-10-09	N/A	Ongoing	N/A	N/A
SHOVEL	519075	Commercial	Mixed Use	Embedded	1.6	2020-10-08	2024	Ongoing	N/A	N/A
SIDEWINDER	2980	Commercial	Distribution/Fulfillment Centers	Embedded	7	2013-11-15	2023	Ongoing	N/A	N/A
SIDEWINDER	540282	Industrial	Cultivation	Incremental	2.12	2021-03-18	N/A	Ongoing	N/A	N/A
SIERRA	439545	Agricultural	Agricultural Water Pump	Embedded	0.3	2020-01-07	N/A	Ongoing	N/A	N/A
SIERRA	439685	Residential	Tract Homes	Embedded	0.556	2020-07-14	N/A	Ongoing	N/A	N/A
SIESTA	54731	Commercial	Medical	Embedded	2.55	2015-12-17	N/A	Ongoing	N/A	N/A
SILVER	519509	Industrial	Distribution/Fulfillment Centers	Embedded	4.1	2020-10-18	2023	Ongoing	N/A	N/A
SILVERTONE	519274	Commercial	Distribution/Fulfillment Centers	Embedded	0.9	2020-10-13	N/A	Ongoing	N/A	N/A
SIREN	548504	Commercial	Speculative Building	Embedded	1.831	2021-10-08	N/A	Ongoing	N/A	N/A

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SKYLAB	540422	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	0.542	2021-09-09	N/A	Ongoing	N/A	N/A
SKYLAB	540462	Commercial	Business Park (Office Buildings)	Embedded	4	2021-09-21	N/A	Ongoing	N/A	N/A
SKYWALKER	517888	Residential	Custom Homes	Embedded	0.627	2020-10-08	N/A	Ongoing	N/A	N/A
SKYWALKER	557088	Residential	Other	Embedded	0.426	2021-10-15	N/A	Ongoing	N/A	N/A
SLADE	134483	Industrial	Industrial Plant	Embedded	0.345	2017-03-28	N/A	Ongoing	N/A	N/A
SLATE	256394	Residential	Mega Tract Homes	Embedded	3.9	2018-10-16	2023	Ongoing	N/A	N/A
SLATE	411397	Commercial	Other	Embedded	4.5	2019-10-23	2023	Ongoing	N/A	N/A
SLATE	461572	Commercial	Distribution/Fulfillment Centers	Embedded	0.72	2020-07-23	N/A	Ongoing	N/A	N/A
SLATE	550479	Commercial	Schools (including universities and colleges)	Embedded	1.075	2020-10-12	N/A	Ongoing	N/A	N/A
SLATE	550514	Commercial	Low Duty Commercial EV Charger	Incremental	4.933	2021-10-13	N/A	Ongoing	N/A	N/A
SLATE	550516	Commercial	Other	Embedded	2.5	2021-10-13	2023	Ongoing	N/A	N/A
SMITH	550607	Industrial	Industrial Plant	Embedded	0.675	2021-10-14	N/A	Ongoing	N/A	N/A
SNIPES	256775	Residential	Tract Homes	Embedded	1.4	2019-10-16	2023	Ongoing	N/A	N/A
SOCRATES	586104	Commercial	Low Duty Commercial EV Charger	Incremental	1.3696	2021-11-01	2024	Ongoing	N/A	N/A
SOLITAIRE	134949	Residential	Tract Homes	Embedded	1.4	2018-04-25	N/A	Ongoing	N/A	N/A
SONOMA	519470	Residential	Tract Homes	Embedded	1.3	2020-10-16	N/A	Ongoing	N/A	N/A
SONOMA	557431	Residential	Tract Homes	Embedded	3.55	2021-10-18	2023	Ongoing	N/A	N/A
SONOMA	557458	Residential	Tract Homes	Embedded	1.5	2021-10-18	2023	Ongoing	N/A	N/A
SONOMA	557477	Industrial	Industrial Plant	Embedded	0.5	2021-10-18	2023	Ongoing	N/A	N/A
SORRENTO	550475	Commercial	Speculative Building	Embedded	2.499	2021-10-12	2023	Ongoing	N/A	N/A
SPA	519407	Commercial	Other	Embedded	0.383	2020-10-16	2023	Ongoing	N/A	N/A
SPEAR	550603	Commercial	Other	Embedded	0.503	2021-10-14	2023	Ongoing	N/A	N/A
SPIKE	550551	Residential	Other	Embedded	0.198	2021-10-13	N/A	Ongoing	N/A	N/A
SPILLWAY	519423	Industrial	Industrial Plant	Embedded	1.1	2020-10-16	N/A	Ongoing	N/A	N/A
SPILLWAY	540415	Commercial	Distribution/Fulfillment Centers	Embedded	0.9	2021-09-03	N/A	Ongoing	N/A	N/A
SPILLWAY	540416	Industrial	Other	Embedded	0.6	2021-09-03	N/A	Ongoing	N/A	N/A
SPILLWAY	550459	Commercial	Distribution/Fulfillment Centers	Embedded	4	2021-10-11	2023	Ongoing	N/A	N/A
SPILLWAY	550464	Agricultural	Agricultural Water Pump	Embedded	0.67	2021-10-12	N/A	Ongoing	N/A	N/A
SQUADRON	540435	Residential	Zero Net Energy (ZNE)	Embedded	0.658	2021-09-16	N/A	Ongoing	N/A	N/A
ST. CROIX	256532	Industrial	Other	Embedded	3.9	2019-06-27	N/A	Ongoing	N/A	N/A
STACK	557392	Residential	Tract Homes	Embedded	0.5	2021-10-18	N/A	Ongoing	N/A	N/A
STAGELINE	2830	Residential	Mega Tract Homes	Embedded	5	2013-04-30	N/A	Ongoing	N/A	N/A
STANDARD	540468	Commercial	Shopping Centers	Embedded	0.9	2021-09-22	N/A	Ongoing	N/A	N/A
STARFIGHTER	100694	Residential	Mega Tract Homes	Embedded	3.3529	2016-12-26	2023	Ongoing	N/A	N/A
STARFIGHTER	256605	Commercial	Shopping Centers	Embedded	0.2551	2019-09-26	N/A	Ongoing	N/A	N/A
STARGLOW	519511	Commercial	Speculative Building	Embedded	1	2020-10-18	2023	Ongoing	N/A	N/A
STARGLOW	519512	Commercial	Speculative Building	Embedded	2	2020-10-18	N/A	Ongoing	N/A	N/A
STARGLOW	557470	Commercial	Speculative Building	Embedded	1.312	2021-10-18	N/A	Ongoing	N/A	N/A
STEARNS	550473	Residential	Apartments	Embedded	1.008	2021-10-12	2023	Ongoing	N/A	N/A
STEELMAN	126424	Residential	Tract Homes	Embedded	0.387	2017-02-03	N/A	Ongoing	N/A	N/A
STEELMAN	540264	Commercial	Shopping Centers	Embedded	0.452	2021-03-08	N/A	Ongoing	N/A	N/A
STEELMAN	540399	Commercial	Medical	Embedded	1.435	2021-08-31	N/A	Ongoing	N/A	N/A
STEGMAN	484254	Commercial	Lodging	Embedded	0.3	2020-10-07	N/A	Ongoing	N/A	N/A
STIG	548487	Commercial	Low Duty Commercial EV Charger	Incremental	1.355	2021-10-07	2023	Ongoing	N/A	N/A
STITZER	550655	Industrial	Industrial Plant	Embedded	0.27	2021-10-15	N/A	Ongoing	N/A	N/A
STOCKER	542756	Commercial	Lodging	Embedded	0.728	2021-10-01	N/A	Ongoing	N/A	N/A
STONEWOOD	550660	Residential	Tract Homes	Embedded	0.99	2021-10-15	N/A	Ongoing	N/A	N/A
STORKE	550500	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-10-12	N/A	Ongoing	N/A	N/A
STORM	519220	Commercial	Speculative Building	Embedded	1.5	2020-10-08	N/A	Ongoing	N/A	N/A
STROSNIDER	550643	Commercial	Other	Embedded	0.15	2021-10-15	N/A	Ongoing	N/A	N/A
STUDEBAKER	557393	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	1.1152	2021-10-18	N/A	Ongoing	N/A	N/A
SUBIDA	557087	Industrial	Industrial Plant	Embedded	0.976	2021-10-15	N/A	Ongoing	N/A	N/A
SUMAC	519382	Industrial	Cultivation	Incremental	1.6	2020-10-16	N/A	Ongoing	N/A	N/A
SUN VILLAGE	557092	Industrial	Industrial Plant	Embedded	4.04	2021-10-15	N/A	Ongoing	N/A	N/A
SUNDOWN	550646	Agricultural	Agricultural Water Pump	Embedded	0.15	2021-10-15	N/A	Ongoing	N/A	N/A
SUNSET	134958	Agricultural	Agricultural Water Pump	Embedded	0.15	2018-05-10	N/A	Ongoing	N/A	N/A
SUNSWEET	557106	Commercial	Low Duty Commercial EV Charger	Embedded	0.579	2021-10-15	N/A	Ongoing	N/A	N/A
SUNTOWER	238498	Residential	Mixed Use	Embedded	1.5	2018-10-12	2024	Ongoing	N/A	N/A
SUNTOWER	540487	Commercial	Shopping Centers	Embedded	0.5	2021-09-23	2024	Ongoing	N/A	N/A
SUPERIOR	519227	Commercial	Other	Embedded	0.315	2020-10-08	N/A	Ongoing	N/A	N/A
SURFRIDER	439647	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	1.25	2020-06-16	N/A	Ongoing	N/A	N/A
SURFSIDE	410252	Industrial	Industrial Plant	Embedded	4.5	2019-10-22	2023	Ongoing	N/A	N/A
SURFSIDE	550591	Industrial	Cultivation	Incremental	3.6	2021-10-13	2023	Ongoing	N/A	N/A
SURPRISE	256541	Agricultural	Agricultural Water Pump	Embedded	0.35	2019-07-25	N/A	Ongoing	N/A	N/A
SURPRISE	542712	Agricultural	Agricultural Water Pump	Embedded	0.177	2021-09-28	N/A	Ongoing	N/A	N/A
SUSAN	550543	Commercial	Shopping Centers	Embedded	0.44	2021-10-13	N/A	Ongoing	N/A	N/A
SUZY	519332	Commercial	Other	Embedded	1.034	2020-10-15	N/A	Ongoing	N/A	N/A
SWANSON	191875	Agricultural	Agricultural Water Pump	Embedded	0.4	2018-10-08	N/A	Ongoing	N/A	N/A

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SWANSON	519566	Commercial	Schools (including universities and colleges)	Embedded	0.4761	2020-11-23	N/A	Ongoing	N/A	N/A
TABERNA	115997	Residential	Tract Homes	Embedded	1.45	2017-01-24	N/A	Ongoing	N/A	N/A
TABERNA	550628	Residential	Tract Homes	Embedded	1.9	2021-10-14	N/A	Ongoing	N/A	N/A
TABERNA	550639	Residential	Tract Homes	Embedded	1	2021-10-15	N/A	Ongoing	N/A	N/A
TACKLE	519445	Commercial	Business Park (Office Buildings)	Embedded	0.1	2020-10-16	N/A	Ongoing	N/A	N/A
TACKLE	557427	Commercial	Commercial Water Pump	Embedded	0.5	2021-10-18	2023	Ongoing	N/A	N/A
TAGUS	461583	Industrial	Industrial Plant	Embedded	0.64	2020-08-04	N/A	Ongoing	N/A	N/A
TAGUS	461584	Industrial	Industrial Plant	Embedded	0.64	2020-08-04	N/A	Ongoing	N/A	N/A
TAGUS	519562	Agricultural	Agricultural Water Pump	Embedded	0.267	2020-11-20	N/A	Ongoing	N/A	N/A
TAMBOURINE	256619	Residential	Tract Homes	Embedded	3.148	2019-10-01	N/A	Ongoing	N/A	N/A
TAMBOURINE	542773	Commercial	Low Duty Commercial EV Charger	Incremental	0.813	2021-10-03	2023	Ongoing	N/A	N/A
TARTAR	238510	Residential	Zero Net Energy (ZNE)	Embedded	0.5	2018-10-12	N/A	Ongoing	N/A	N/A
TARTAR	519245	Commercial	Mixed Use	Embedded	0.81	2020-10-09	N/A	Ongoing	N/A	N/A
TARTAR	519246	Commercial	Mixed Use	Embedded	0.46	2020-10-09	2023	Ongoing	N/A	N/A
TARUSA	256624	Industrial	Cultivation	Incremental	9	2019-10-04	2023	Ongoing	N/A	N/A
TEACHER	225217	Residential	Tract Homes	Embedded	2	2018-10-12	2023	Ongoing	N/A	N/A
TEACHER	412614	Commercial	Lodging	Embedded	0.35	2019-10-24	N/A	Ongoing	N/A	N/A
TEACHER	519325	Commercial	Distribution/Fulfillment Centers	Embedded	6	2020-10-15	N/A	Ongoing	N/A	N/A
TEAPOT	134709	Commercial	Other	Embedded	0.25	2017-12-18	N/A	Ongoing	N/A	N/A
TEAPOT	540233	Agricultural	Agricultural Water Pump	Embedded	0.15	2021-02-08	N/A	Ongoing	N/A	N/A
TEMECK	560604	Commercial	Low Duty Commercial EV Charger	Incremental	0.5	2021-10-18	N/A	Ongoing	N/A	N/A
TENDER	475869	Residential	Tract Homes	Embedded	3.25	2020-10-01	N/A	Ongoing	N/A	N/A
TERRA	550542	Commercial	Business Park (Office Buildings)	Embedded	1.5	2021-10-13	2023	Ongoing	N/A	N/A
TERRIER	410178	Commercial	Mixed Use	Embedded	0.939	2019-10-22	N/A	Ongoing	N/A	N/A
TERRIER	550471	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-10-12	N/A	Ongoing	N/A	N/A
TETLEY	518153	Residential	Custom Homes	Embedded	0.166	2020-10-08	N/A	Ongoing	N/A	N/A
TETRIS	224223	Commercial	Business Park (Office Buildings)	Embedded	2	2018-10-11	N/A	Ongoing	N/A	N/A
TETRIS	256531	Residential	Tract Homes	Embedded	1.595	2019-06-27	N/A	Ongoing	N/A	N/A
THEATER	256690	Commercial	Business Park (Office Buildings)	Embedded	0.354	2019-10-14	N/A	Ongoing	N/A	N/A
THOMPSEN	550677	Commercial	Speculative Building	Embedded	0.5	2021-10-15	N/A	Ongoing	N/A	N/A
THOROUGHbred	134741	Residential	Mega Tract Homes	Embedded	1.5296	2017-12-21	N/A	Ongoing	N/A	N/A
TICHENOR	256686	Commercial	Lodging	Embedded	1.321	2019-10-14	N/A	Ongoing	N/A	N/A
TICO	519300	Industrial	Other	Embedded	0.86	2020-10-14	2023	Ongoing	N/A	N/A
TIGERCAT	548501	Residential	Mega Tract Homes	Embedded	1.194	2021-10-08	N/A	Ongoing	N/A	N/A
TIGRIS	519420	Industrial	Distribution/Fulfillment Centers	Embedded	3	2020-10-16	N/A	Ongoing	N/A	N/A
TIGRIS	550453	Agricultural	Other	Embedded	0.98	2021-10-11	N/A	Ongoing	N/A	N/A
TILE	238428	Commercial	Speculative Building	Embedded	2.5	2018-10-12	N/A	Ongoing	N/A	N/A
TILE	548510	Commercial	Mixed Use	Embedded	1.116	2021-10-08	N/A	Ongoing	N/A	N/A
TIN MINE	256565	Residential	Tract Homes	Embedded	1.8132	2019-09-13	N/A	Ongoing	N/A	N/A
TIPS	28279	Residential	Mega Tract Homes	Embedded	12.6838	2015-06-19	N/A	Ongoing	N/A	N/A
TIPS	548438	Commercial	Shopping Centers	Embedded	0.322	2021-10-03	N/A	Ongoing	N/A	N/A
TIPS	550451	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-10-11	N/A	Ongoing	N/A	N/A
TITANIUM	410224	Commercial	Business Park (Office Buildings)	Embedded	0.4	2019-10-22	N/A	Ongoing	N/A	N/A
TITANIUM	410233	Industrial	Cultivation	Incremental	2.5	2019-10-22	N/A	Ongoing	N/A	N/A
TLSMITH	126424	Residential	Tract Homes	Embedded	0.6	2017-02-03	N/A	Ongoing	N/A	N/A
TOBLERONE	560632	Commercial	Business Park (Office Buildings)	Embedded	0.453	2021-10-27	N/A	Ongoing	N/A	N/A
TOLAR	2220	Residential	Mega Tract Homes	Embedded	0.42	2011-06-30	N/A	Ongoing	N/A	N/A
TOLAR	519487	Commercial	Speculative Building	Embedded	2.5	2020-10-16	N/A	Ongoing	N/A	N/A
TOLTEC	557391	Commercial	Shopping Centers	Embedded	0.75	2021-10-18	N/A	Ongoing	N/A	N/A
TOMMY	540440	Commercial	Low Duty Commercial EV Charger	Incremental	1.354	2021-09-20	2023	Ongoing	N/A	N/A
TOPOC	550625	Residential	Reservation-related	Embedded	0.175	2021-10-14	2023	Ongoing	N/A	N/A
TOPOC	550627	Residential	Reservation-related	Embedded	0.4	2021-10-14	2025	Ongoing	N/A	N/A
TORPEDO	224226	Industrial	Industrial Plant	Embedded	1	2018-10-11	2023	Ongoing	N/A	N/A
TORSON	519230	Industrial	Industrial Plant	Embedded	2.8	2020-10-08	N/A	Ongoing	N/A	N/A
TORSON	550525	Commercial	Schools (including universities and colleges)	Embedded	5.441	2021-10-13	N/A	Ongoing	N/A	N/A
TORTUGA	557384	Commercial	Other	Embedded	1.5	2021-10-15	N/A	Ongoing	N/A	N/A
TOUCHDOWN	410149	Commercial	Distribution/Fulfillment Centers	Embedded	0.5	2019-10-21	N/A	Ongoing	N/A	N/A
TOUCHDOWN	542710	Residential	Apartments	Embedded	1.35	2021-09-28	N/A	Ongoing	N/A	N/A
TOWNHALL	93204	Industrial	Cultivation	Incremental	34.12	2016-10-22	N/A	Ongoing	N/A	N/A
TOWNHALL	134654	Industrial	Cultivation	Incremental	10	2017-12-06	2023	Ongoing	N/A	N/A
TOWNSHIP	475882	Residential	Apartments	Embedded	0.78	2020-10-01	N/A	Ongoing	N/A	N/A
TOYON	245678	Commercial	Business Park (Office Buildings)	Embedded	2	2018-10-12	2023	Ongoing	N/A	N/A
TOYON	256741	Residential	Apartments	Embedded	4.5	2019-10-15	N/A	Ongoing	N/A	N/A
TRABUCO	519527	Commercial	Low Duty Commercial EV Charger	Incremental	0.35	2020-10-21	N/A	Ongoing	N/A	N/A
TRADEWIND	410206	Commercial	Low Duty Commercial EV Charger	Incremental	3.483	2019-10-22	N/A	Ongoing	N/A	N/A
TRADEWIND	540499	Commercial	Low Duty Commercial EV Charger	Incremental	2.709	2021-09-23	N/A	Ongoing	N/A	N/A
TRIDENT	540297	Commercial	Low Duty Commercial EV Charger	Incremental	0.33	2021-04-01	N/A	Ongoing	N/A	N/A
TRIDENT	548493	Commercial	Shopping Centers	Embedded	3.2	2021-10-08	2023	Ongoing	N/A	N/A

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TRIGO	519324	Residential	Apartments	Embedded	0.704	2020-10-14	N/A	Ongoing	N/A	N/A
TRIUMPH	550466	Commercial	Other	Embedded	0.5	2021-10-12	N/A	Ongoing	N/A	N/A
TRUMBLE	238485	Residential	Mega Tract Homes	Embedded	5	2018-10-12	2024	Ongoing	N/A	N/A
TRUMP	195457	Industrial	Industrial Plant	Embedded	1.05	2018-10-09	N/A	Ongoing	N/A	N/A
TRUMPET	256619	Residential	Tract Homes	Embedded	1.3491	2019-10-01	N/A	Ongoing	N/A	N/A
TUBA	32035	Residential	Mega Tract Homes	Embedded	7.0168	2015-12-11	2024	Ongoing	N/A	N/A
TUBE	519226	Industrial	Cultivation	Incremental	1.733	2020-10-08	N/A	Ongoing	N/A	N/A
TUBE	519234	Industrial	Industrial Plant	Embedded	1.58	2020-10-08	N/A	Ongoing	N/A	N/A
TUBE	542747	Commercial	Distribution/Fulfillment Centers	Embedded	0.772	2021-10-01	N/A	Ongoing	N/A	N/A
TUBE	542751	Commercial	Low Duty Commercial EV Charger	Incremental	2.709	2021-10-01	2023	Ongoing	N/A	N/A
TUBE	550609	Industrial	Industrial Plant	Embedded	1.5	2021-10-14	N/A	Ongoing	N/A	N/A
TUGGLE	256612	Commercial	Commercial Water Pump	Embedded	0.481	2019-09-30	N/A	Ongoing	N/A	N/A
TULIP	548464	Commercial	Shopping Centers	Embedded	0.5	2021-10-05	N/A	Ongoing	N/A	N/A
TULSA	216075	Residential	Tract Homes	Embedded	1.425	2018-10-11	N/A	Ongoing	N/A	N/A
TULSA	395535	Residential	Tract Homes	Embedded	1.75	2019-10-18	N/A	Ongoing	N/A	N/A
TULSA	519244	Residential	Apartments	Embedded	0.5	2020-10-09	N/A	Ongoing	N/A	N/A
TUNNEL	256768	Commercial	Distribution/Fulfillment Centers	Embedded	5.925	2019-10-16	N/A	Ongoing	N/A	N/A
TUNNEL	540403	Commercial	Distribution/Fulfillment Centers	Embedded	7.479	2021-09-01	2023	Ongoing	N/A	N/A
TUNNEL	540404	Commercial	Distribution/Fulfillment Centers	Embedded	3.324	2021-09-01	2023	Ongoing	N/A	N/A
TUNNEL	540405	Commercial	Distribution/Fulfillment Centers	Embedded	1.662	2021-09-01	2023	Ongoing	N/A	N/A
TUPELO	519211	Residential	Tract Homes	Embedded	0.053	2020-10-08	N/A	Ongoing	N/A	N/A
TURNTABLE	550534	Commercial	Shopping Centers	Embedded	1.004	2021-10-13	2023	Ongoing	N/A	N/A
TURTLE	439675	Residential	Apartments	Embedded	1.25	2020-07-13	N/A	Ongoing	N/A	N/A
TWAIN	550678	Industrial	Other	Embedded	2	2021-10-15	N/A	Ongoing	N/A	N/A
TYPHOON	540497	Commercial	Low Duty Commercial EV Charger	Incremental	0.712	2021-09-23	N/A	Ongoing	N/A	N/A
UNDERWOOD	256672	Commercial	Low Duty Commercial EV Charger	Incremental	0.15	2019-10-11	N/A	Ongoing	N/A	N/A
UNDERWOOD	461654	Residential	Tract Homes	Embedded	0.15	2020-09-22	N/A	Ongoing	N/A	N/A
UNDERWOOD	540313	Commercial	Low Duty Commercial EV Charger	Incremental	0.75	2021-05-04	N/A	Ongoing	N/A	N/A
VADAR	557089	Industrial	Other	Embedded	0.48	2021-10-15	N/A	Ongoing	N/A	N/A
VAL VERDE	28137	Industrial	Industrial Plant	Embedded	2.718	2015-02-17	N/A	Ongoing	N/A	N/A
VAL VERDE	548238	Commercial	Business Park (Office Buildings)	Embedded	0.581	2021-10-03	N/A	Ongoing	N/A	N/A
VAL VERDE	548437	Commercial	Business Park (Office Buildings)	Embedded	0.375	2021-10-03	N/A	Ongoing	N/A	N/A
VALENTE	28240	Industrial	Other	Embedded	1.1	2015-05-25	N/A	Ongoing	N/A	N/A
VALENTE	519569	Agricultural	Agricultural Water Pump	Embedded	0.4	2020-11-23	N/A	Ongoing	N/A	N/A
VALLECITO	550492	Residential	Custom Homes	Embedded	0.46	2021-10-12	N/A	Ongoing	N/A	N/A
VALLECITO	550493	Industrial	Cultivation	Incremental	0.553	2021-10-12	N/A	Ongoing	N/A	N/A
VALLECITO	550504	Commercial	Other	Embedded	0.375	2021-10-12	N/A	Ongoing	N/A	N/A
VANDALIA	134510	Commercial	Reservation-related	Embedded	3.7	2017-05-12	N/A	Ongoing	N/A	N/A
VASSAL	519537	Commercial	Speculative Building	Embedded	0.385	2020-10-23	N/A	Ongoing	N/A	N/A
VELMA	519367	Commercial	Lodging	Embedded	1.25	2020-10-15	2023	Ongoing	N/A	N/A
VELMA	519368	Residential	Apartments	Embedded	0.42	2020-10-16	N/A	Ongoing	N/A	N/A
VELMA	519369	Commercial	Speculative Building	Embedded	0.57	2020-10-16	2023	Ongoing	N/A	N/A
VENGEANCE	3212	Residential	Tract Homes	Embedded	0.5	2013-12-11	N/A	Ongoing	N/A	N/A
VENGEANCE	134456	Residential	Tract Homes	Embedded	0.64	2017-02-18	N/A	Ongoing	N/A	N/A
VENGEANCE	411394	Industrial	Distribution/Fulfillment Centers	Embedded	4.4	2019-10-23	2023	Ongoing	N/A	N/A
VERBENA	540457	Commercial	Low Duty Commercial EV Charger	Incremental	0.3	2021-09-21	N/A	Ongoing	N/A	N/A
VETERANS	478220	Commercial	Other	Embedded	0.404	2020-10-03	N/A	Ongoing	N/A	N/A
VIA NORTE	238530	Commercial	Lodging	Embedded	0.3	2018-10-12	N/A	Ongoing	N/A	N/A
VIA NORTE	557430	Residential	Mixed Use	Embedded	1.5	2021-10-18	2023	Ongoing	N/A	N/A
VIA NORTE	557446	Residential	Mixed Use	Embedded	1.68	2021-10-18	2023	Ongoing	N/A	N/A
VINEYARD	550581	Residential	Tract Homes	Embedded	0.114	2021-10-13	2023	Ongoing	N/A	N/A
VINEYARD	550586	Residential	Tract Homes	Embedded	0.115	2021-10-13	2023	Ongoing	N/A	N/A
VIRGO	410194	Commercial	Other	Embedded	1	2019-10-22	2023	Ongoing	N/A	N/A
VOLTURNO	191864	Residential	Mega Tract Homes	Embedded	5.3	2018-10-05	N/A	Ongoing	N/A	N/A
VORTEX	410196	Residential	Apartments	Embedded	1	2019-10-22	N/A	Ongoing	N/A	N/A
VOSSLER	256409	Agricultural	Agricultural Water Pump	Embedded	0.15	2018-12-12	N/A	Ongoing	N/A	N/A
WAHLSTROM	472945	Residential	Tract Homes	Embedded	0.1	2020-09-28	N/A	Ongoing	N/A	N/A
WALRUS	540395	Commercial	Low Duty Commercial EV Charger	Incremental	0.75	2021-08-30	N/A	Canceled	N/A	N/A
WALTER	439582	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	0.72	2020-03-02	N/A	Ongoing	N/A	N/A
WALTER	542764	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	0.405	2021-10-01	N/A	Ongoing	N/A	N/A
WANDA	550612	Industrial	Speculative Building	Embedded	3	2021-10-14	N/A	Ongoing	N/A	N/A
WARHAWK	519208	Residential	Tract Homes	Embedded	7.15	2020-10-08	2023	Ongoing	N/A	N/A
WARM CREEK	238499	Industrial	Industrial Plant	Embedded	3.3261	2018-10-12	N/A	Ongoing	N/A	N/A
WARMAN	542741	Commercial	Shopping Centers	Embedded	0.75	2021-10-01	N/A	Ongoing	N/A	N/A
WARRIORS	540454	Commercial	Low Duty Commercial EV Charger	Incremental	0.75	2021-09-21	N/A	Canceled	N/A	N/A
WATERWAY	550616	Residential	Tract Homes	Embedded	1.05	2021-10-14	N/A	Ongoing	N/A	N/A
WAYSIDE	519213	Commercial	Distribution/Fulfillment Centers	Embedded	1.218	2020-10-08	N/A	Ongoing	N/A	N/A
WAYSIDE	519214	Commercial	Distribution/Fulfillment Centers	Embedded	0.905	2020-10-08	N/A	Ongoing	N/A	N/A

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WEBB	191877	Commercial	Distribution/Fulfillment Centers	Embedded	1.33	2018-10-08	N/A	Ongoing	N/A	N/A
WEBB	439633	Industrial	Distribution/Fulfillment Centers	Embedded	1.296	2020-06-01	N/A	Ongoing	N/A	N/A
WEBSTER	256334	Industrial	Cultivation	Incremental	0.3	2018-10-12	N/A	Ongoing	N/A	N/A
WEBSTER	256763	Industrial	Speculative Building	Embedded	0.3	2019-10-16	2023	Ongoing	N/A	N/A
WEISS	550644	Residential	Custom Homes	Embedded	0.301	2021-10-15	2023	Ongoing	N/A	N/A
WELCH	540220	Agricultural	Agricultural Water Pump	Embedded	0.4	2021-01-15	N/A	Ongoing	N/A	N/A
WELLS	134662	Industrial	Cultivation	Incremental	5.118	2017-12-12	2023	Ongoing	N/A	N/A
WESTBLUFF	256388	Residential	Tract Homes	Embedded	0.34	2018-10-15	N/A	Ongoing	N/A	N/A
WESTBROOK	557445	Commercial	Mixed Use	Embedded	0.75	2021-10-18	N/A	Ongoing	N/A	N/A
WESTERN	542760	Commercial	Business Park (Office Buildings)	Embedded	0.976	2021-10-01	N/A	Ongoing	N/A	N/A
WESTFIELD	519330	Commercial	Mixed Use	Embedded	0.667	2020-10-15	N/A	Ongoing	N/A	N/A
WESTON	134465	Agricultural	Agricultural Water Pump	Embedded	0.3	2017-03-01	N/A	Ongoing	N/A	N/A
WESTON	134572	Agricultural	Agricultural Water Pump	Embedded	0.3	2017-08-28	N/A	Ongoing	N/A	N/A
WESTON	439562	Agricultural	Agricultural Water Pump	Embedded	0.2	2020-02-06	N/A	Ongoing	N/A	N/A
WESTON	439566	Agricultural	Agricultural Water Pump	Embedded	0.2	2020-02-11	N/A	Ongoing	N/A	N/A
WESTON	439636	Agricultural	Agricultural Water Pump	Embedded	0.15	2020-06-02	N/A	Ongoing	N/A	N/A
WESTON	439637	Agricultural	Agricultural Water Pump	Embedded	0.1628	2020-06-04	N/A	Ongoing	N/A	N/A
WESTON	519552	Agricultural	Agricultural Water Pump	Embedded	0.15	2020-11-09	N/A	Ongoing	N/A	N/A
WHEY	548447	Residential	Tract Homes	Embedded	0.45	2021-10-04	N/A	Ongoing	N/A	N/A
WHITWORTH	238492	Commercial	Temporary Power	Incremental	-1	2018-10-12	2024	Ongoing	N/A	N/A
WHITWORTH	519247	Commercial	Mixed Use	Embedded	3.78	2020-10-09	N/A	Ongoing	N/A	N/A
WHIZZIN	256635	Residential	Tract Homes	Embedded	0.5	2019-10-08	N/A	Ongoing	N/A	N/A
WIGTON	550588	Residential	Tract Homes	Embedded	1.1	2021-10-13	2024	Ongoing	N/A	N/A
WIGWAG	550536	Commercial	Speculative Building	Embedded	0.09	2021-10-13	N/A	Ongoing	N/A	N/A
WILCOX	542731	Industrial	Cultivation	Incremental	1.3	2021-09-30	N/A	Ongoing	N/A	N/A
WILCOX	550600	Industrial	Cultivation	Incremental	0.865	2021-10-14	2023	Ongoing	N/A	N/A
WILEY	3168	Commercial	Medical	Embedded	1.3106	2013-12-06	N/A	Ongoing	N/A	N/A
WILLARD	548543	Commercial	Mixed Use	Embedded	0.6	2021-10-11	2024	Ongoing	N/A	N/A
WILLIS	540436	Commercial	Low Duty Commercial EV Charger	Incremental	1.084	2021-09-16	2023	Canceled	N/A	N/A
WIND TUNNEL	461667	Commercial	Lodging	Embedded	1	2020-09-24	N/A	Ongoing	N/A	N/A
WINNEBAGO	550535	Commercial	Distribution/Fulfillment Centers	Embedded	2.45	2021-10-13	N/A	Ongoing	N/A	N/A
WINNEBAGO	550545	Commercial	Shopping Centers	Embedded	1	2021-10-13	N/A	Ongoing	N/A	N/A
WINNEBAGO	550555	Commercial	Shopping Centers	Embedded	0.88	2021-10-13	N/A	Ongoing	N/A	N/A
WONDERFUL	461578	Agricultural	Agricultural Water Pump	Embedded	0.227	2020-07-30	N/A	Ongoing	N/A	N/A
WONDERFUL	461658	Agricultural	Agricultural Water Pump	Embedded	0.265	2020-09-23	N/A	Ongoing	N/A	N/A
WOOKIE	517880	Commercial	Commercial Water Pump	Embedded	0.175	2020-10-08	N/A	Ongoing	N/A	N/A
WOOKIE	517881	Commercial	Lodging	Embedded	0.9	2020-10-08	N/A	Ongoing	N/A	N/A
WORTH	540291	Commercial	Low Duty Commercial EV Charger	Incremental	0.3	2021-03-26	N/A	Ongoing	N/A	N/A
WORTH	540493	Residential	Zero Net Energy (ZNE)	Embedded	1.14	2021-09-23	N/A	Ongoing	N/A	N/A
WUTCHUMNA	548450	Residential	Tract Homes	Embedded	0.425	2021-10-04	N/A	Ongoing	N/A	N/A
XEROX	27896	Residential	Apartments	Embedded	3	2014-12-08	N/A	Ongoing	N/A	N/A
XEROX	27900	Residential	Apartments	Embedded	2.24	2014-12-09	N/A	Ongoing	N/A	N/A
XEROX	395537	Residential	Apartments	Embedded	1.2	2019-10-18	N/A	Ongoing	N/A	N/A
XEROX	439696	Commercial	Medical	Embedded	10.283	2020-07-16	2023	Ongoing	N/A	N/A
XEROX	548461	Commercial	Other	Embedded	0.5	2021-10-05	N/A	Ongoing	N/A	N/A
YAHTZEE	216102	Industrial	Industrial Plant	Embedded	2	2018-10-11	N/A	Ongoing	N/A	N/A
YAHTZEE	410219	Industrial	Cultivation	Incremental	1.5	2019-10-22	N/A	Ongoing	N/A	N/A
YATES	410231	Industrial	Cultivation	Incremental	1.562	2019-10-22	N/A	Ongoing	N/A	N/A
YODA	557084	Industrial	Other	Embedded	4.5	2021-10-15	2023	Ongoing	N/A	N/A
ZAMORA	542739	Industrial	Other	Embedded	2.85	2021-10-01	N/A	Ongoing	N/A	N/A
ZEPHER	256776	Residential	Zero Net Energy (ZNE)	Embedded	0.783	2019-10-16	N/A	Ongoing	N/A	N/A
ZIMMER	550533	Commercial	Mixed Use	Embedded	0.951	2021-10-13	N/A	Ongoing	N/A	N/A
ZODIAC	191889	Residential	Apartments	Embedded	0.8	2018-10-08	N/A	Ongoing	N/A	N/A
ATLANTIC	612196	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	4.8	2022-09-12	2023	Ongoing	N/A	N/A
COLYER	612196	Commercial	Medium / Heavy Duty Commercial EV Charger	Incremental	4.8	2022-09-12	2023	Ongoing	N/A	N/A
GREASEWOOD	540294	Industrial	Cultivation	Incremental	12	2021-03-30	2024	Ongoing	N/A	N/A
GREASEWOOD	519268	Industrial	Cultivation	Incremental	0.532	2020-10-13	2023	Ongoing	N/A	N/A
GREASEWOOD	256742	Industrial	Cultivation	Incremental	1.064	2019-10-15	2023	Ongoing	N/A	N/A
GREASEWOOD	256744	Industrial	Cultivation	Incremental	1.064	2019-10-15	2023	Ongoing	N/A	N/A
GREASEWOOD	256749	Industrial	Cultivation	Incremental	0.3	2019-10-15	2023	Ongoing	N/A	N/A
GREASEWOOD	256705	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256708	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256714	Industrial	Cultivation	Incremental	0.231	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256715	Industrial	Cultivation	Incremental	0.288	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256716	Industrial	Cultivation	Incremental	0.288	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256723	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256724	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256725	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A

Circuit	Unique Project Identifier	Sector	Category	IEPR Status	Requested Load Amount (MVA)	Initial Service Request Date	Current Expected In-Service Date	Status	Actual In-Service	Actual Load Amount
GREASEWOOD	256726	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256727	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256728	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256729	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256730	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256731	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256732	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256733	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256734	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256735	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256736	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256737	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256738	Industrial	Cultivation	Incremental	0.228	2019-10-14	2023	Ongoing	N/A	N/A
GREASEWOOD	256739	Industrial	Cultivation	Incremental	1.5	2019-10-14	2024	Ongoing	N/A	N/A
GREASEWOOD	256740	Industrial	Cultivation	Incremental	25.54	2019-10-14	2024	Ongoing	N/A	N/A
GREASEWOOD	256344	Industrial	Cultivation	Incremental	1.5	2018-10-13	2024	Ongoing	N/A	N/A
GREASEWOOD	256347	Industrial	Cultivation	Incremental	1.5	2018-10-13	2024	Ongoing	N/A	N/A
GREASEWOOD	126441	Industrial	Cultivation	Incremental	0.532	2017-02-09	2023	Ongoing	N/A	N/A
GREASEWOOD	133543	Industrial	Cultivation	Incremental	8.437	2017-02-09	N/A	Ongoing	N/A	N/A
GREASEWOOD	126420	Industrial	Cultivation	Incremental	0.288	2017-01-31	2023	Ongoing	N/A	N/A
HEFTLER	612181	Industrial	Speculative Building	Embedded	0.86	2022-08-24	2024	Ongoing	N/A	N/A
HEFTLER	560614	Industrial	Speculative Building	Embedded	2.12	2021-10-20	2024	Ongoing	N/A	N/A
OVERALL	560610	Industrial	Cultivation	Incremental	0.033	2021-10-20	2026	Ongoing	N/A	N/A
OVERALL	560612	Industrial	Cultivation	Incremental	1.663	2021-10-20	2026	Ongoing	N/A	N/A
OVERALL	540294	Industrial	Cultivation	Incremental	84	2021-03-30	2023	Ongoing	N/A	N/A
OVERALL	519266	Industrial	Cultivation	Incremental	0.266	2020-10-13	2026	Ongoing	N/A	N/A
OVERALL	519267	Industrial	Cultivation	Incremental	0.231	2020-10-13	2026	Ongoing	N/A	N/A
OVERALL	519269	Industrial	Cultivation	Incremental	1.995	2020-10-13	2026	Ongoing	N/A	N/A
OVERALL	519270	Industrial	Cultivation	Incremental	1.663	2020-10-13	2026	Ongoing	N/A	N/A
OVERALL	519271	Industrial	Cultivation	Incremental	1.33	2020-10-13	2026	Ongoing	N/A	N/A
OVERALL	256747	Industrial	Cultivation	Incremental	4.99	2019-10-15	2026	Ongoing	N/A	N/A
OVERALL	256750	Industrial	Cultivation	Incremental	0.798	2019-10-15	2026	Ongoing	N/A	N/A
OVERALL	256709	Industrial	Cultivation	Incremental	0.04	2019-10-14	2026	Ongoing	N/A	N/A
OVERALL	256710	Industrial	Cultivation	Incremental	0.533	2019-10-14	2023	Ongoing	N/A	N/A
OVERALL	256711	Industrial	Cultivation	Incremental	0.533	2019-10-14	2023	Ongoing	N/A	N/A
OVERALL	256712	Industrial	Cultivation	Incremental	0.533	2019-10-14	2023	Ongoing	N/A	N/A
OVERALL	256713	Industrial	Cultivation	Incremental	0.533	2019-10-14	2023	Ongoing	N/A	N/A
OVERALL	256717	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
OVERALL	256718	Industrial	Cultivation	Incremental	0.532	2019-10-14	2023	Ongoing	N/A	N/A
OVERALL	256719	Industrial	Cultivation	Incremental	1.064	2019-10-14	2023	Ongoing	N/A	N/A
OVERALL	256721	Industrial	Cultivation	Incremental	1.064	2019-10-14	2023	Ongoing	N/A	N/A
OVERALL	256722	Industrial	Cultivation	Incremental	1.33	2019-10-14	2023	Ongoing	N/A	N/A
OVERALL	256348	Industrial	Cultivation	Incremental	7.98	2018-10-13	2023	Ongoing	N/A	N/A
OVERALL	256356	Industrial	Cultivation	Incremental	1.5	2018-10-13	2023	Ongoing	N/A	N/A
OVERALL	134853	Industrial	Cultivation	Incremental	1.463	2018-01-02	2023	Ongoing	N/A	N/A
OVERALL	134855	Industrial	Cultivation	Incremental	1.758	2018-01-02	2023	Ongoing	N/A	N/A
OVERALL	126439	Industrial	Cultivation	Incremental	1.626	2017-02-09	2023	Ongoing	N/A	N/A
OVERALL	100673	Industrial	Cultivation	Incremental	2.66	2016-12-20	2023	Ongoing	N/A	N/A