



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.

R.21-06-017

**MOTION OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) TO ACCEPT
AMENDED DISTRIBUTION UPGRADE PROJECTS REPORT AND KNOWN LOADS
TRACKING DATASET ASSOCIATED WITH PUBLIC AND CONFIDENTIAL
VERSIONS OF 2025 GRID NEEDS ASSESSMENT AND DISTRIBUTION UPGRADE
PROJECTS REPORT AND WITHDRAW AND REPLACE PRIOR FILINGS**

PUBLIC VERSION

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Dated: **October 20, 2025**

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PROJECTS REPORT AND WITHDRAW AND REPLACE PRIOR FILINGS**

Pursuant to Rule 11.1 of the Rules of Practice and Procedure of the California Public Utilities Commission (“Commission” or “CPUC”), Southern California Edison Company (“SCE”) respectfully files this motion to: (1) accept its amended Distribution Upgrade Projects Report (Attachment D) and Known Loads Tracking Dataset (Attachment E) associated with the Public and Confidential Versions of SCE’s 2025 Grid Needs Assessment and Distribution Upgrade Projects Report (“2025 GNA/DUPR”); (2) withdraw from the record and remove from the Commission’s files the August 15, 2025 Public and Confidential Versions of SCE’s 2025 GNA/DUPR; and (3) file in place of the withdrawn August 15, 2025 Public and Confidential Versions of SCE’s 2025 GNA/DUPR, with a deemed effective filing date of August 15, 2025, the amended Public and Confidential Versions of SCE’s 2025 GNA/DUPR (“Motion”) in the above-captioned docket. Consistent with Rule 1.7, an Amended Public Version of SCE’s 2025 GNA/DUPR, which contains the Amended Distribution Upgrade Projects Report (Attachment D) and Amended Known Loads Tracking Dataset (Attachment E), is attached as Attachment 1 to this Motion.

On August 15, 2025, SCE submitted its 2025 GNA/DUPR, which included the associated Distribution Upgrade Projects Report (Attachment D) and Known Loads Tracking Dataset

(Attachment E). Subsequent to filing, SCE identified data in the Confidential and Public Versions of Attachment D that requires redaction or removal due to confidentiality concerns, and missing data in Attachment E¹. Through this Motion, SCE seeks to amend the Distribution Upgrade Projects Report (Attachment D) and Known Loads Tracking Dataset (Attachment E), associated with the Public and Confidential Versions of SCE's 2025 GNA/DUPR to reflect these corrections.

For the foregoing reasons, SCE respectfully requests: (1) acceptance of its amended Distribution Upgrade Projects Report (Attachment D) and Known Loads Tracking Dataset (Attachment E) associated with the Public and Confidential Versions of SCE's 2025 GNA/DUPR; (2) withdrawal from the record and removal from the Commission's files of the August 15, 2025 Public and Confidential Versions of SCE's 2025 GNA/DUPR; and (3) replacement of the August 15, 2025 Public and Confidential Versions of SCE's 2025 GNA/DUPR with the amended Public and Confidential Versions of SCE's 2025 GNA/DUPR, with a deemed effective filing date of August 15, 2025.

Respectfully submitted,

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October 20, 2025

¹ Attachment E, the Known Loads Tracking Dataset, appears in both the public and confidential versions of the 2025 GNA/DUPR. It does not include any confidential data.

Attachment 1

**BEFORE THE PUBLIC UTILITIES COMMISSION OF THE
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Order Instituting Rulemaking to Modernize the
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Resources Future.

Rulemaking 21-06-017

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PROJECTS REPORT OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E)**

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PUBLIC VERSION

Pursuant to the California Public Utilities Commission’s (Commission or CPUC) Decision (D.) 24-10-030 and previous Administrative Law Judge Rulings on Distribution Investment Deferral Framework reforms, Southern California Edison Company (SCE) respectfully submits its Amended 2025 Grid Needs Assessment and Distribution Upgrade Projects Report in **Attachment A**.

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 D.17-09-026 and D.18-02-004, dated July 24, 2018, and Section 3.3 of General

Order 66-D, SCE previously filed on August 15, 2025 a motion to submit under seal unredacted versions of these materials, based on customer privacy considerations.

Respectfully submitted,

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October 20, 2025

Attachment A

Southern California Edison Company's

2025 Grid Needs Assessment & Distribution Upgrade Projects Report

Grid Needs Assessment & Distribution Upgrade Projects Report

Southern California Edison's Narrative 2025

August 15, 2025

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1. Executive Summary

Southern California Edison Company (SCE) hereby submits the narrative for its 2025 Grid Needs Assessment (GNA) report and 2025 Distribution Upgrade Project Report (DUPR) as directed by the California Public Utilities Commission's (Commission or CPUC) Decision (D.) 24-10-030¹ and previous Administrative Law Judge (ALJ) Rulings on Distribution Investment Deferral Framework (DIDF) reforms.²

The GNA report presents 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 DUPR presents SCE's planned investments that address grid needs identified in the GNA report.

As discussed in detail later in this document, SCE has identified 701 grid needs and 572 planned investments³ in its 2025 GNA/DUPR.

2. Background and Regulatory Requirements

On August 14, 2014, the CPUC established Rulemaking (R.) 14-08-013, which set forth guidelines, rules, and procedures directing California's Investor-Owned Utilities (IOUs) in the development of their respective Distribution Resources Plans (DRPs). On February 15, 2018, the Commission issued D.18-02-004, which directed IOUs to file a

¹ (D.) 24-10-030 replaced the previous Distribution Deferral Opportunities Report (DDOR) with the DUPR.

² 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 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); 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); R.21-06-017, Administrative Law Judge's Ruling on Recommended Reforms for the 2023 Distribution Investment Deferral Framework Process, The Partnership Pilot and the Standard-Offer-Contract Pilot, issued May 19, 2023 (2023 DIDF Ruling); and R.21-06-017, Administrative Law Judges' Ruling Reforming the 2024/2025 Distribution Investment Deferral Framework Cycle (DIDF), Off Ramping The Partnership Pilot and Granting the Motions to Temporarily Suspend Portions of the DIDF, issued June 21, 2024 (2024 DIDF Ruling).

³ There are 1066 rows of data in the DUPR planned investment sheet. Some projects have multiple rows of data.

GNA report and DDOR on an annual basis.⁴ On May 7, 2019, the Commission issued the 2019 DIDF Ruling,⁵ directing IOUs to file both the GNA report and DDOR on August 15 annually.

On July 2, 2021, the CPUC established Rulemaking (R.) 21-06-017, which set forth a broad scope of topics that would guide the California IOUs to modernize the grid for a high distributed energy resources future. On October 23, 2024, the Commission issued D.24-10-030, which directed IOUs to eliminate DIDF solicitations and the DDOR, and to focus on improving transparency of the Distribution Planning Process (DPP) and improvements to the DPP.⁶ The DDOR was replaced with the DUPR, which would follow the same reporting requirements as those established in a June 21, 2024 ALJ Ruling.⁷

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. For the 2024-2025 DIDF cycle, the DUPR presents SCE's planned investments that address grid needs listed in the GNA report, as well as Planned Solutions as described in Section 7.1.

SCE included the following information in our August 15th GNA/DUPR filing:

- Grid Needs Assessment (GNA) Results - Distributed Energy Resource Growth Forecast
- GNA Results - Demand Forecast and Bank/Feeder Capacity Needs
- GNA Results – Reliability/Resiliency Needs
- Distribution Upgrade Project Report (DUPR) Planned Investments
- DUPR Planned Solutions
- Known Load Project Tracking Data

Known Load Reporting and Metrics

Pursuant to the various aforementioned decisions and rulings that set forth processes and timelines for the DPP, the GNA and DUPR are required to be filed with the CPUC 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/DUPR data by August 30. Distribution Planning Advisory Group (DPAG) meetings are expected to occur during September, giving stakeholders an opportunity to learn more and ask questions about the GNA/DUPR filing.

⁴ R.21-06-017, *Decision on Track 3 Policy Issues, Sub-Track 1 (Growth Scenarios) and Sub-Track 3 (Distribution Investment and Deferral Process)*, D.24-10-030, issued October 23, 2024.

⁵ R.14-08-013, 2019 DIDF Ruling.

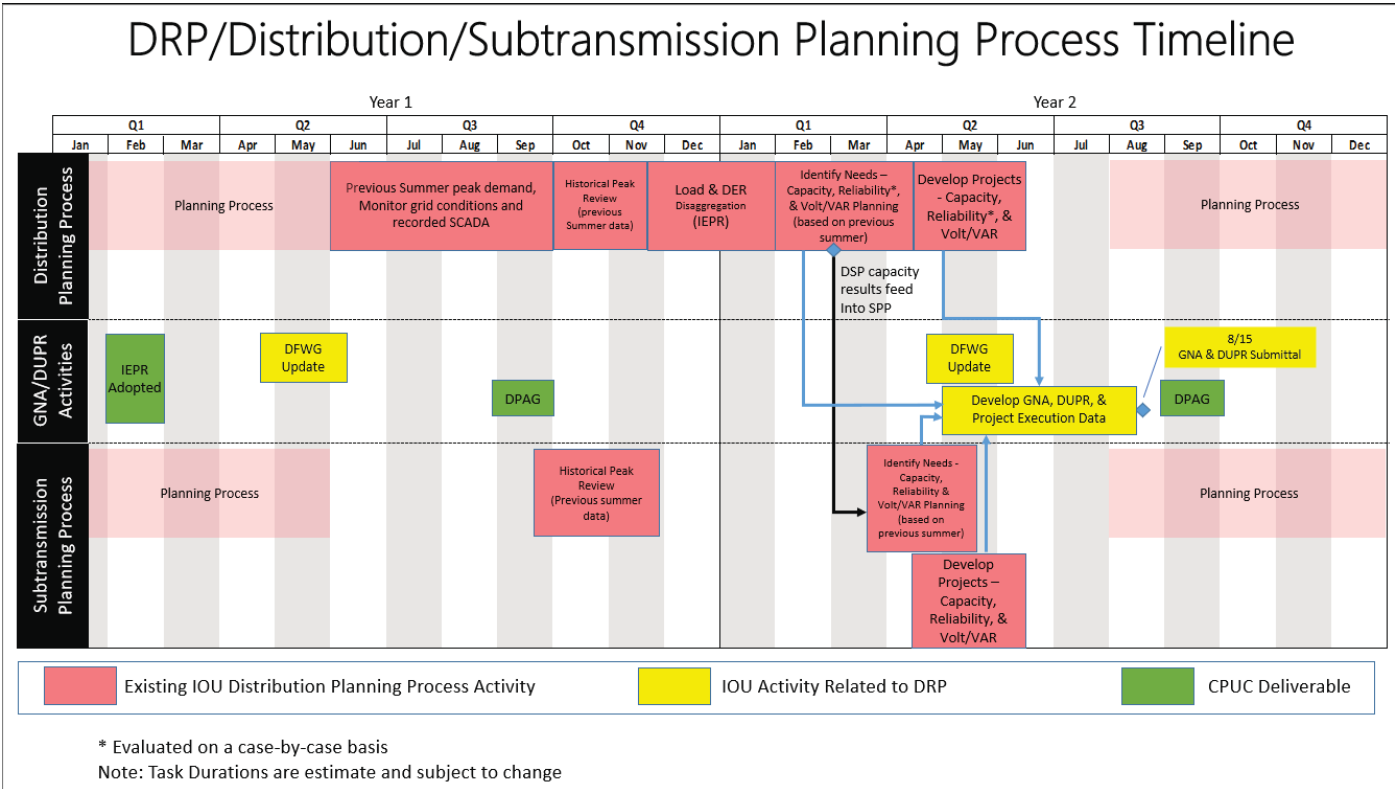
⁶ D.24-10-030, Ordering Paragraph 24.

⁷ R.21-06-017, *Administrative Law Judges' Ruling Reforming the 2024/2025 Distribution Investment Deferral Framework (DIDF) Cycle, Off Ramping The Partnership Pilot, and Granting The Motions To Temporarily Suspend Portions of the DIDF*, June 21, 2024.

3. Distribution Planning Process Overview

SCE’s typical timeline for major DPP activities and its integration with the GNA report and DUPR is displayed in Figure 1. Please note this timeline may not reflect SCE’s exact annual DPP schedule. The timing of these major activities could vary depending on when SCE’s distribution system observes its peak loading conditions. Additionally, advancements in software tools and regulatory requirements may also influence this process.

FIGURE 1: DRP/DISTRIBUTION/SUBTRANSMISSION PLANNING PROCESS TIMELINES



3.1. Historical Profile Review

Most of SCE’s service territory experiences peak demand conditions during the summer months, typically in the beginning of June and continuing through September, with occasional extensions into October.

SCE begins its planning process for its entire system in October or November, after summer peak seasons conclude. Engineers review the recorded demand profiles of each distribution circuit to determine if any abnormal conditions⁸

⁸ 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.

were present. Abnormal data is adjusted or replaced to represent normal conditions. SCE then aggregates the cleansed circuit demand profiles to get the substation demand profiles. After that, SCE uses the cleansed demand profiles to determine the starting demand for each circuit and substation. The starting demand is the baseline peak demand value onto which incremental load and DER forecasts are added to develop a 10-year forecast for SCE's substations and circuits.

3.2. Load and DER Disaggregation

The Integrated Energy Policy Report (IEPR) forecast is provided at the entire SCE system level, and not with the granularity necessary to perform planning activities for 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."⁹ This incremental load growth is further discussed in Section 4.2 The IEPR datasets used by SCE within this DPP are discussed later in Section 4.

3.2.1. Load Disaggregation

SCE's load disaggregation methodology starts with the IEPR load growth forecast and incorporates 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 coordinate with developers across agricultural, commercial, industrial, residential, and transportation electrification sectors to assess the electrical needs, location, and timing of upcoming projects (a.k.a. Known Load Growth projects or LGPs). This process enables the engineers to estimate the projected increases in demand on SCE's distribution facilities, based on developer provided information, progress of development, and institutional knowledge from similar past developments. Most of these LGPs are considered as embedded or reflected in the 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, there is Pending Load growth such as port electrification and truck stop charging. Additionally, cultivation and Temporary Power LGPs are not accounted for as part of the IEPR forecast. The load from these LGPs is added incrementally to the IEPR forecast. Both types of LGPs, embedded and incremental, 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 Process

The CEC's IEPR provides a 10-year forecast for the following key DERs:

- 1) Energy Efficiency (EE)
- 2) Transportation Electrification (TE)
- 3) Solar Photovoltaic (PV)
- 4) Energy Storage (ES)

⁹ 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.

5) Fuel Substitution (FS)

In general, EE and PV reduce net demand, TE and FS increase net demand, and ES reduces net demand in the discharging period and increases it in the charging period.

SCE disaggregates each of the IEPR DER forecasts from SCE's service territory to circuits and integrates their load impacts into its net demand forecast for circuits and substations, creating a forecast used as input to the annual DPP. Further details on SCE's methodology for disaggregating the CEC IEPR DER forecasts are contained in Section 4.

3.3. Identify Electric System Needs

The developed load and DER forecasts are input into the planning software as the Normal Projected Load (NPL), calculated using a 1:2 temperature assumption. The NPL is adjusted to the Criteria Projected Load (CPL) using a 1:10 weather assumption relevant to the asset's location. Engineers perform studies to determine whether the forecasted CPL can be accommodated by existing electric facilities, according to their Planned Loading Limits (PLL).

Before proposing system upgrades and new infrastructures to mitigate identified needs, engineers first seek to maximize the utilization of existing assets, such as through load transfers, which is typically known as no-cost or low-cost solutions. SCE's GNA report will show grid needs after maximizing utilization of existing equipment.

3.4. Develop Projects to Solve for Electric System Needs

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

- Modifications to existing distribution circuitry;
- Constructing new distribution circuits;
- Substation expansion;
- Constructing new substations

During this process, SCE identifies several alternative solutions to meet forecasted electric system needs. The reliability, operational flexibility, and cost-effectiveness of each option are assessed to determine technical feasibility, and options that do not meet criteria are excluded. From the remaining options, SCE selects a preferred project for implementation.

4. In-Depth Forecast Examination & Disaggregation Methods

SCE presented the list of IEPR scenarios in Table 1 below and DER disaggregation methodologies used in its 2025 DPP to the DFWG on May 22, 2025. The objective of the DFWG meeting was to "vet the disaggregation methodologies and data sources used in the disaggregation process to ensure that the circuit level forecasts apply the best available

data sources and incorporate evaluation feedback in future forecasts.”¹⁰ The details within this section complement SCE’s presentation to the DFWG.

TABLE 1: 2023 IEPR SCENARIOS FOR DISTRIBUTION PLANNING

2024-2025 DPP (2025 GNA/DUPR) DER Forecast Scenarios Local Reliability Scenario – Adopted 2023 IEPR	
Forecast Name	Scenarios
Economic, Demographic, and Price Scenarios	Baseline Forecast
Photovoltaics (PV)	Baseline Forecast
Energy Storage (ES)	Baseline Forecast
Additional Achievable Energy Efficiency (AAEE)	Scenario 2
Additional Achievable Fuel Substitution (AAFS)	Scenario 4
Transportation Electrification (TE)	Scenario 3
CARB SIP Zero Emission Space and Water Heating Equipment Sales after 2030	Included

SCE utilizes various software to facilitate the disaggregation and development of its distribution demand forecast. Historically, the Master Distribution Interface (MDI), an internally developed planning software, enabled end-to-end preparation of a point-based forecast. As SCE’s DPP evolves, ongoing efforts are focused on enhancing the Long-Term Planning Tool (LTPT), with the objective of transitioning from point-based to fully profile-based forecasting.

Currently, as LTPT and other Grid Modernization Engineering and Planning tools remain under active development, SCE is navigating a transitional phase. Profile-based portions of the forecast are developed using the Structure Level Forecast (SLF) module within the LTPT Forecasting Tool, while point-based portions continue to be produced through the legacy MDI system. The profile-based forecast leverages Geographic Information System (GIS) tools like ArcGIS and profile tools including SCE’s Grid Analytics Tool (GAT) powered by Re|Grid. These tools support the IEPR disaggregation process, facilitate the net demand forecast, and expand SCE’s planning capabilities. Methodologies and tools undergo annual updates to ensure continuous improvement of SCE’s DPP. A high-level overview of the current end-to-end process was provided in Section 3.

4.1. CEC System Level Forecast Adjustments

This section describes the adjustments made to the CEC system level forecast to support disaggregation of load growth (non-DER) to the structure level.

The IEPR annual energy consumption forecast is gathered from the CEC’s California Energy Demand Forecast published in January of the following year’s forecast vintage. Within the Baseline forecast file, SCE utilized Form 1.2 to extract SCE’s Total Energy Consumption for the years in the relevant forecast horizon. After extracting the

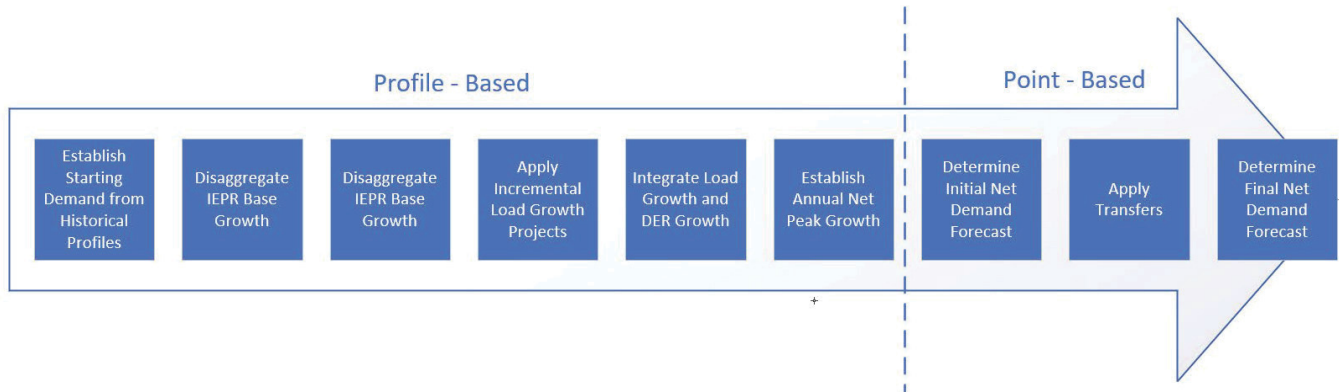
¹⁰ Joint-IOUs and Itron, “*Distribution Forecasting Working Group Progress Report*,” July 2, 2018 (available at <http://docs.cpuc.ca.gov/PublishedDocs/Efile/G000/M229/K731/229731972.PDF>)

relevant information, the resulting incremental consumption load forecast is used for SCE’s load growth disaggregation to the structure level.

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

This section provides a high-level overview of the current distribution forecast process, summarized in Figure 2 below and detailed in the description that follows:

FIGURE 2: SCE'S END-TO-END DISTRIBUTION FORECAST PROCESS



1. *Establish Starting Demand from Historical Profile*: The starting demand is developed within LTPT-SLF software using historical demand from cleansed 8760 profiles provided by GAT software. This is based on the most recent peak season, typically during summer for most of SCE’s system. and is adjusted for weather normalization.
2. *Disaggregate IEPR Base Growth*: This step disaggregates the IEPR load forecast down to the distribution structure level using embedded LGP information and time-series econometric model forecasts in SCE’s LTPT-SLF.
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 using various software solutions (e.g., R programming).
4. *Apply Incremental Load Growth Projects*: Incremental LGPs are added to specific circuit forecasts after the IEPR load growth disaggregation.
5. *Integrate Load Growth and DER Growth*: Unique hourly profiles are applied to IEPR disaggregated load, IEPR disaggregated DER, and incremental LGPs for each circuit. The integrated hourly load and DER forecasts generate the initial 8760-hour net demand forecast. The profiles used include DER shapes by type, representative load shapes by sector (Residential, Commercial, Industrial, Agriculture, and Light Duty and DC Fast Chargers).
6. *Establish Annual Net Peak Growth*: Circuit peak times are derived based on the maximum value from the integrated hourly net demand forecast. The coincident load and DER impacts are established based on the circuit peak time.
7. *Determine Initial Net Demand Forecast*: This step calculates the net demand forecast coinciding with circuit peak time, prior to application of transfers.
8. *Apply Transfers*: Load transfers are implemented as no cost solutions when grid needs can be addressed by utilizing the available capacity of existing equipment.

9. *Determine Final Net Demand Forecast*: This step establishes the final net demand forecast in accordance with applicable weather design criteria over a 10-year period.

4.3. DER Disaggregation

This section describes the data sources and methodology used to disaggregate the CEC's 2023 IEPR DER system level forecasts for local reliability scenario forecasts to individual circuits.¹¹ Details are provided for the following five DER types:

- 1) Energy Efficiency (EE)
- 2) Transportation Electrification (TE)
- 3) Solar Photovoltaic (PV) - (Residential (R), Non-Residential (NR))
- 4) Energy Storage (ES) - (R, NR)
- 5) Fuel Substitution (FS)

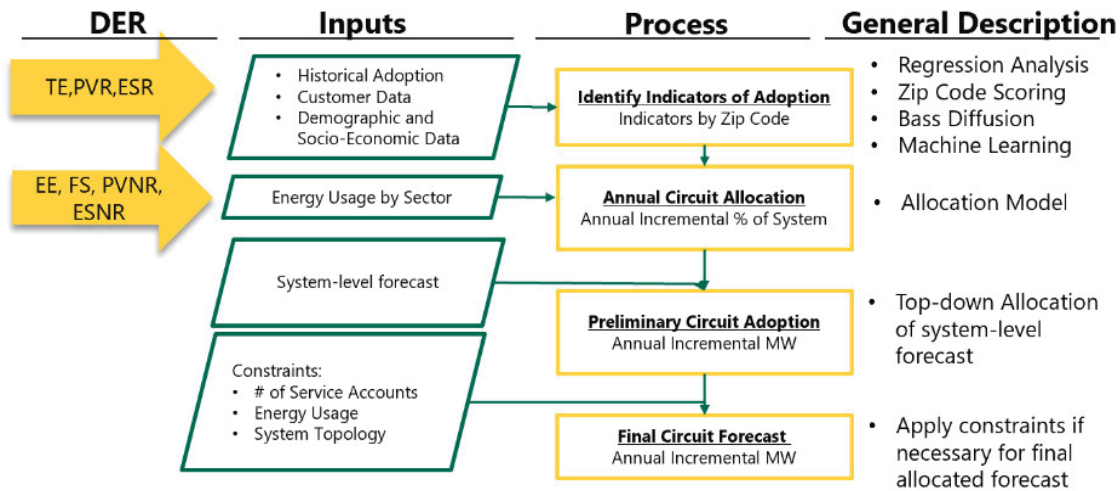
SCE applies the CEC IEPR 8760 load shapes for EE, TE (Medium & Heavy Duty), ES, and FS to distribute the total annual aggregated forecasts for each DER to the hourly level. For TE (Light Duty) and PV, SCE utilizes customized, internally developed load shapes rather than those provided by the IEPR.

The subsections below describe in detail how each DER forecast is disaggregated from the IEPR system level to each individual circuit, and how hourly DER load modifications are calculated, and an illustrative example of SCE's disaggregation process is provided at the end of each DER discussion.

Figure 3 provides an overview of the disaggregation process.

¹¹ The IOUs received approval from Energy Division to use the CEC's 2023 IEPR Local Reliability scenario for all IEPR load forecast elements in the 2024-2025 GNA/DUPR cycle (see Attachment B for Joint IOU request regarding use of the CEC's 2023 IEPR Local Reliability scenario and July 31, 2024 Energy Division email providing approval, entitled "(External):High DER: Approval of IEPR Forecast Elements for 2024-2025 DPP Cycle (R.21-06-017)."

FIGURE 3: SCE'S OVERALL DER DISAGGREGATION PROCESS



4.3.1. Energy Efficiency

This section describes how SCE disaggregates the CEC's IEPR system level Additional Achievable Energy Efficiency (AAEE) forecast to individual circuits.

SCE disaggregates the IEPR's system level AAEE forecast using proportional scaling models that assume EE adoption follows energy use. The CEC's AAEE forecast contains two main sources of savings:

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 methodology contains four main steps:

1. Step 1 - Collect SCE Energy Use Data by Circuit: The first step extracts customer circuit level total annual energy (GWh) using customer-level data from SCE's Customer Billing System. 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 – Collect CEC IEPR AAEE forecasts: SCE receives AAEE forecast from the CEC forecasters that denotes AAEE savings by scenario and savings type.
3. Step 3 – Disaggregate EE Savings: Calculate the percent sectoral energy use on each circuit and multiplying the sectoral percentages by the IEPR forecasted AAEE EE sectoral savings.
4. Step 4 - Using the CEC supplied IEPR AAEE system-level 8760 load shapes, SCE normalized the annual hourly load shapes (MW) into hourly percentages such that the summation of the hourly EE savings percentage equal 100% for each year of the forecast. SCE then multiplies the normalized hourly percentages by the total CEC supplied AAEE forecast.

Step 1 calculates the percent energy consumption for each sector (Res, Com, Ind, Ag) on each circuit. For example, Circuit X’s residential customers consume a total of 16 GWh of electricity, and SCE’s total residential energy use for its whole service territory is 279,000 GWh of electricity. To calculate a disaggregation factor, Circuit X’s Residential energy use is divided by total SCE System’s Residential energy use, to calculate a disaggregation factor of 0.0057% (16 GWh /279,000 GWh x 100 = 0.0057%). This Residential example is completed for all sectors and circuits in the SCE’s service territory.

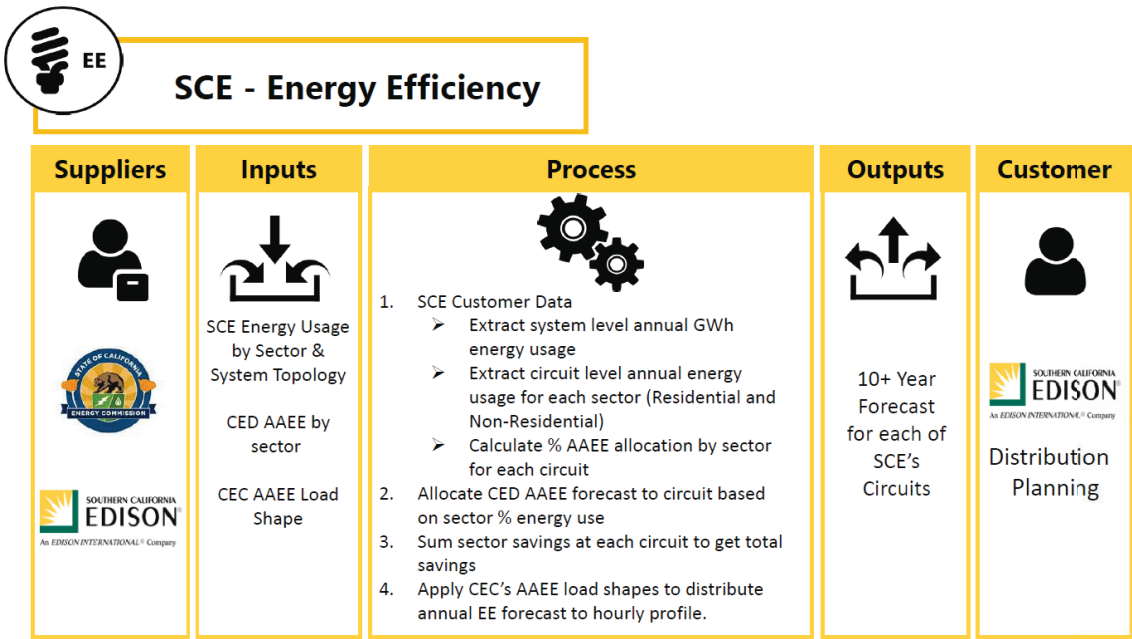
Continuing Step 1 above, assume Circuit X only serves Residential customers, and those Residential customers represent 0.0057% of total Residential energy consumption in SCE service territory.

Step 2 would gather the CEC’s IEPR AAEE forecast of Residential customers, or 95 GWh of Residential AAEE savings.

Step 3 combines Step 1 and Step 2 by multiplying the percentage of Residential energy use on Circuit X by the CEC’s AAEE Residential forecast (0.0057% x 95GWh = 5.42GWh).

Figure 4 below displays the data sources, inputs, process, and outputs of SCE’s EE disaggregation process.

FIGURE 4: ENERGY EFFICIENCY FLOWCHART



4.3.2. Transportation Electrification

For this 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.

4.3.2.1. ELECTRIC VEHICLES (LIGHT DUTY)

SCE leveraged several data sources for disaggregating the system-level light duty Electric Vehicle (EV) forecast from CEC's 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 downloaded from CEC's New ZEV Sales in California dashboard;¹²
2. Household characteristics from the American Community Survey by U.S. Census Bureau at ZIP Code level;¹³
3. Median household income growth forecast by IHS Markit and Moody's Analytics;¹⁴
4. SCE market research study of customer segmentation by circuits;
5. Mapping of ZIP Codes to circuits created by SCE's Geospatial Analysis team; and
6. SCE's light-duty EV load shape

SCE disaggregated the annual CEC's 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. 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 downloaded from CEC's New ZEV Sales in California dashboard and customers' demographic and socioeconomic 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. Allocated CEC's forecast to ZIP Code: Based on relative propensity scores for all the ZIP Codes within SCE's service territory from Step 1.
3. Mapped ZIP Code to circuits based on circuit mileage within a ZIP Code.
4. Applied circuits' shares of a ZIP Code derived from Step 3 to the ZIP Code level EV forecast (from Step 2). In addition, SCE market research study of customer segmentation by circuits used for including potential EV adoption from low-income customers. This resulted in the final disaggregated circuit level EV forecast.

¹² California Energy Commission (2024). New ZEV Sales in California. Data last updated [08-06-2024]. Retrieved [10-28-2024] from <https://www.energy.ca.gov/zevstats>.

¹³ American Community Survey, *Household Demographic and Socioeconomic Data at ZIP Code level, 2022* (available at <https://data.census.gov/>).

¹⁴ IHS Markit and Moody's Analytics, Median Household Income Growth Forecast at MSA Level, October 2024 (available via subscription at <https://connect.ihsmarkit.com/home> and <https://www.economy.com/databuffet/preview/start>).

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

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

1. Guidehouse load forecast for medium and heavy duty in SCE territory at circuit level; and
2. CEC's IEPR medium & heavy-duty truck load shape

SCE disaggregated the annual CEC 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. Developed a propensity score for each circuit:

For the current planning process, SCE utilized the Guidehouse forecast for medium and heavy duty to build its propensity scores. This study was conducted to develop a bottoms-up assessment of anticipated TE load from MDHD vehicles in SCE's service area utilizing vehicle registration and operations data as well as fleet survey responses and then to overlay the temporal arrival of these loads due to regulations and incentives onto SCE's circuit map and was funded by SCE's LCFS (Low Carbon Fuel Standard) TE Research and Studies portfolio, a non-ratepayer source of funds for TE studies authorized by Resolution E-5236.

This study developed by Guidehouse Vehicle Analytics & Simulation Tool ("VAST") which had 4 modules:

- Fleet Targeting: starts from the bottom up, with data on individual fleet operators and vehicles, to estimate granular locational electrification potential based on the characteristics of the vehicles, duty cycles, and operating data of the fleet.
- Vehicle Adoption: forecasts adoption of various fuel and powertrain, ownership, and vehicle class configurations in each census tract in each jurisdiction.
- Charging Needs: forecasts charging infrastructure required to support the forecasted electric vehicle adoption.
- Load and Grid Impacts: forecasts load and grid impacts resulting from forecasted adoption and charging needs.

SCE utilized Guidehouse circuit level energy (GWh) forecast at circuit level, and then converted those circuit level values to percentages of the SCE total system value.

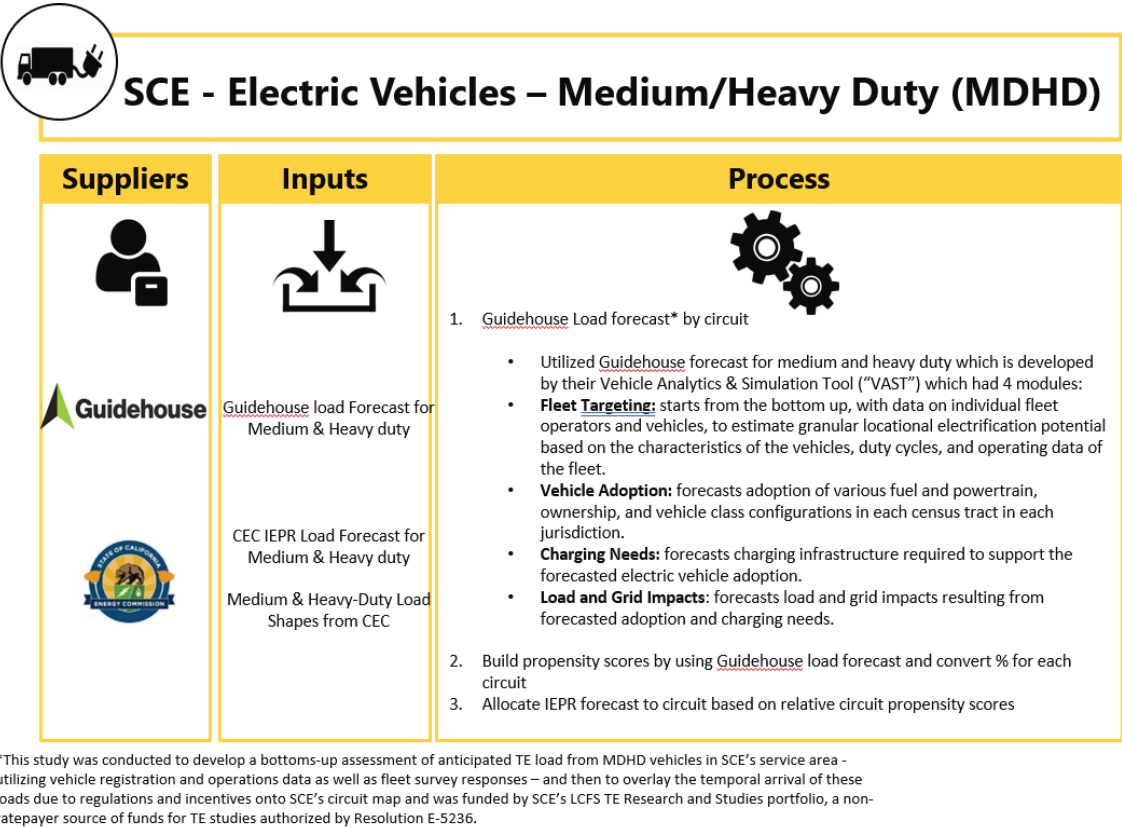
2. Allocated CEC's IEPR forecast to circuits: Based on relative propensity scores for all the circuits within SCE's service territory from Step 1. This resulted in the final disaggregated circuit level medium & heavy-duty forecast.

To estimate the circuit level hourly medium & heavy-duty truck forecast, SCE multiplied CEC's IEPR medium & heavy-duty truck load shape by annual medium & heavy-duty truck forecast at the circuit level.

In this example based on Guidehouse incremental medium and heavy-duty forecast, circuit C's forecast value is 400 MWh and total Guidehouse medium and heavy-duty forecast is 500,000 MWh in SCE's territory. The propensity score of Circuit C is calculated by dividing the Guidehouse forecast for medium and heavy-duty vehicles in Circuit C by that in SCE's territory ($400 / 500,000 \text{ MWh} = 0.0008$). Therefore, Circuit C's share of the medium and heavy-duty forecast is 0.08% ($0.0008 \times 100 = 0.08\%$).

If the CEC incremental medium and heavy-duty vehicles load forecast in SCE’s territory is 480,000 MWh, then the incremental medium and heavy-duty vehicles load forecast for Circuit C is 384 MWh ($0.0008 \times 480,000 \text{ MWh} = 384 \text{ MWh}$). Figure 6 below displays the data sources, inputs, process, and outputs of SCE’s Medium and Heavy-Duty disaggregation process.

FIGURE 6: MEDIUM & HEAVY-DUTY FLOWCHART



4.3.3. Solar Photovoltaics (Residential and Non-Residential)

SCE leveraged several data sources to disaggregate the system-level Solar PV forecast from the CEC’s IEPR demand forecast. The primary data sources include:

- Forecast Zone¹⁶ of SCE’s service territory and Forecast Zone to ZIP Code relationship¹⁷ provided by CEC;

¹⁶ California Energy Commission, *Climate Zone Areas*, 2018 (available at <https://efiling.energy.ca.gov/getdocument.aspx?tn=223244>).

¹⁷ 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”).

2. A mapping of ZIP Codes to circuit relationship;
3. SCE's internally developed Zip Code level market potential¹⁸;
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.

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

This section applies to residential single-family (SF) new construction-related Solar PV installations forecast. This forecast¹⁹ is a subset of the total residential forecast and was provided by the CEC 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 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 Model²⁰ for each CEC forecasting zone and obtained the forecasting zone level parameters (B, P, Q, M).²¹

¹⁸ 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>).

¹⁹ California Energy Commission, *CED: SCE Annual Installed PV Capacity (MW) on New Single Family Homes*.

²⁰ 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.

²¹ 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 data²² and SCE non-care service account data.²³ The output is the ZIP Code level forecast installation for the relevant planning cycle.
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 the CEC IEPR MW incremental forecast²⁴ for SCE's service territory 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 SCE service territory new construction MW forecast²⁵ was allocated based on the Title 24 requirement²⁶.
2. Remaining non-residential existing MW²⁷ was allocated to all circuits based on the energy use share of each circuit.

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.

²² 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>)

²³ SCE Load Research Group, *Non-care Service Account Data*, (available internally as an Excel sheet "Percent_Bills_over_80_by_zipcode_20221019.csv").

²⁴ The IEPR forecast applied was the residential solar PV forecast, with the residential single-family new construction homes forecast first subtracted.

²⁵ California Energy Commission, "*CED: SCE Annual Installed PV Capacity (MW) on New Nonres Buildings*" .

²⁶ Title 24 Requirement: 2022 Energy Codes and Standards have requirement for minimum PV/ES Capacity by W/ft2(available at: https://www.energy.ca.gov/sites/default/files/2022-08/CEC-400-2022-010_CMF.pdf, Table 140.10)

²⁷ The IEPR forecast applied was the non-residential solar PV forecast, with the non-residential new construction forecast subtracted.

SCE utilized an internally generated shape that incorporates dependability.²⁸ To estimate the circuit level hourly PV forecast, SCE multiplied its regional dependability shapes by the annual PV forecast at the circuit level.

Residential SF New Construction Solar PV:

In this illustrative example, Circuit X is forecast to have construction of 13 new residential SF homes in the first forecast year. The total number of SCE new residential SF homes with solar PV forecast is 28,248. Therefore, Circuit X's share is 0.046% ($13 / 28,248 \times 100 = 0.046\%$). The IEPR forecasts SCE to have 92.05 MW of new load associated with new residential SF homes with solar PV, thus, Circuit X is assigned 0.0423 MW ($92.05 \text{ MW} \times 0.046\% = 0.0423 \text{ MW}$) 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 (13 adoptions in the first forecast year). SCE then divides ZIP Code Z's adoptions by the entire SCE service territory ZIP Code adoptions (25,990) to arrive at 0.05% ($13 / 25,990 \times 100 = 0.05\%$). 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: 0.004% ($0.05\% \times 8.88\% = 0.004\%$).

The CEC's Residential PV Forecast minus the SF new construction forecast is 111.19 MW ($203.25 \text{ MW} - 92.05 \text{ MW} = 111.19 \text{ MW}$). SCE then multiplies the CEC forecast by the ratios from Step 3 to get the Circuit X Incremental Forecasts in the first planning year: 0.0044 MW ($111.19 \text{ MW} \times 0.004\% = 0.0044 \text{ MW}$). 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 New Construction Solar PV:

In this example of SCE's residential Solar PV disaggregation method, customer data shows that circuit X has 3 nonresidential customers with building type "Food Store" which is under the Title 24 requirement (in this example, assume no more customers under other title 24 building types). Based on the codes and standards, the new constructed food store needs a minimum of 2.91 Watt/sqft PV installation. Customer history and DODGE forecast would estimate 6.51 sqft/customer for food stores in the first planning year (DODGE data reflects the sqft forecast for different building types and customer data reflects customer count for different building types). So, the Watt/customer for food store buildings is 18.95 ($2.91 \text{ W/sqft} \times 6.51 \text{ sqft/customer} = 18.95 \text{ W/customer}$). Then circuit X would have 56.85 W ($3 \times 18.95 \text{ W/customer} = 56.85 \text{ W}$) under "Food Store" category. If the total capacity is calculated to be 3,160,855 W after summing up the capacity forecast of all the buildings under Title 24 requirement categories for all circuits, then Circuit X's share is 0.0018% ($56.85 \text{ W} / 3,160,855 \text{ W} \times 100 = 0.0018\%$). The IEPR forecasts SCE to have 34.78 MW of new load associated with new non-residential buildings with solar PV, thus,

²⁸ Dependable PV shapes include adjustments to account for factors including, but not limited to, cloud cover, degradation, etc.

Circuit X in the first planning year is assigned 0.0006 MW ($34.78 \text{ MW} \times 0.0018\% = 0.0006 \text{ MW}$) related to non-residential new construction solar PV (i.e. a subset of non-residential).

Non-Residential Existing Solar PV:

For non-residential existing 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 CEC's non-residential PV Forecast minus the new construction forecast is 132.15 MW ($166.92 \text{ MW} - 34.78 \text{ MW} = 132.15 \text{ MW}$), so Circuit X’s share of non-residential existing PV of 0.0186 MW ($0.01407\% \times 132.15 \text{ MW} = 0.0186 \text{ MW}$).

Figure 7 and Figure 8 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.

FIGURE 7: RESIDENTIAL SF NEW CONSTRUCTION SOLAR PHOTOVOLTAICS FLOWCHART

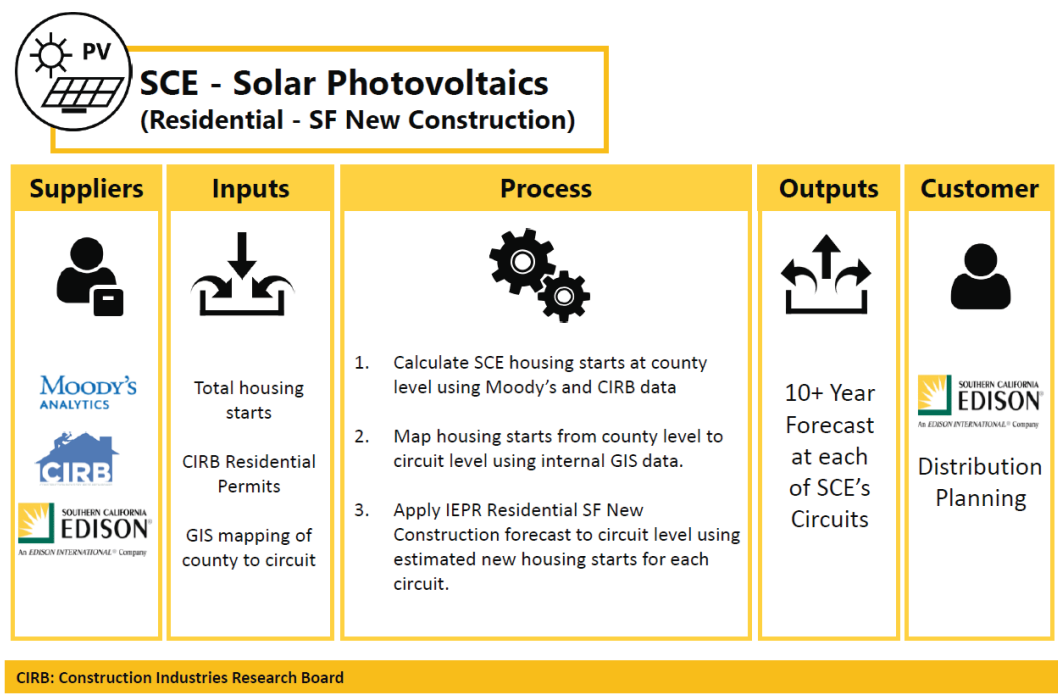
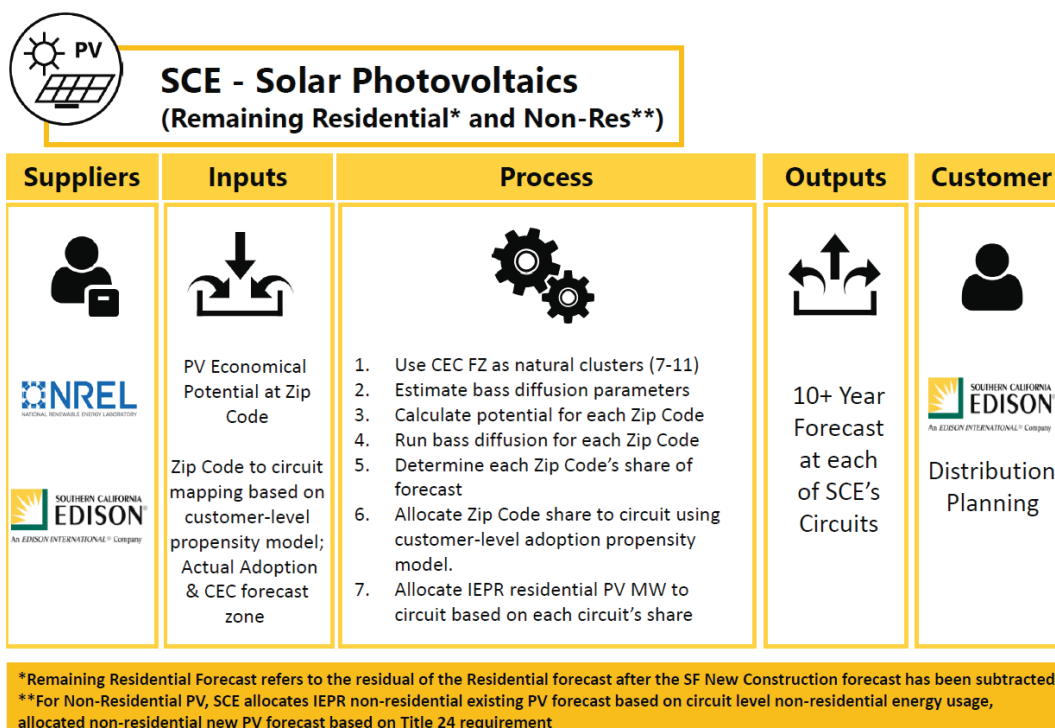


FIGURE 8: RESIDENTIAL AND NON-RESIDENTIAL SOLAR PHOTOVOLTAICS FLOWCHART



4.3.4. Energy Storage

SCE leveraged several data sources for disaggregating the energy storage MW forecast from CEC's IEPR Update demand forecast. 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 EV allocation in SCE territory
4. Circuit-level peak-to-energy ratios

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 IEPR, SCE applied a weighted circuit shares used for residential Solar PV and EV²⁹.

Circuit Level Non-Residential Disaggregation Methodology:

CEC's IEPR new construction MW³⁰ for SCE's territory was allocated from the Title 24 requirement.

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 systems. 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 remaining IEPR non-residential storage forecast to get each circuit's non-residential ES forecast.

SCE used separate 8760 hourly profiles for residential customers and non-residential customers. The IEPR hourly forecasts for residential and non-residential energy storage were scaled to standardized shape to be equal to 100% for each year and then multiplied the IEPR annual MW to MWh conversion ratio to generate the residential and non-residential energy storage circuit level forecasts.

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 a circuit length of 25.4 miles out of 25,764.8 miles total for circuits qualifying for resiliency incentives. The forecasted capacity additions due to the resiliency incentives in the first forecast year is 6.81 MW, so Circuit X has an allocated share of 0.0067 MW ($25.4 \text{ miles} / 25,764.8 \text{ miles} \times 6.81 \text{ MW} = 0.0044 \text{ MW}$). The additional residential ES capacity not due to resiliency incentives is then considered. Circuit X's residential PV share is assumed to be 0.058% and its EV share is assumed to be 0.033%. SCE assigns the weighted share of PV (75%) and EV (25%) to be energy storage share to Circuit X as 0.052% ($0.058\% \times 0.75 + 0.033\% \times 0.25 = 0.052\%$). CEC's IEPR residential ES forecast for SCE in the first forecast year, after subtracting the resiliency incentive MW, is 12.40 MW ($19.21 \text{ MW} - 6.81 \text{ MW} = 12.40 \text{ MW}$). Therefore, Circuit X has 0.0064 MW ($12.40 \text{ MW} \times 0.052\% = 0.0064 \text{ MW}$) energy storage not due to resiliency incentives. The total Circuit X's residential ES forecast is 0.013 MW ($0.0067 \text{ MW} + 0.0064 \text{ MW} = 0.013 \text{ MW}$).

For non-residential ES new construction disaggregation, the calculation process would be similar with the example in section "Non-Residential New Construction Solar PV" but replace the title 24 requirement from PV W/sqft to ES W/sqft. If circuit X's share is calculated to be 0.021%, the IEPR forecasts SCE to have 14.38 MW of new load associated with new non-residential buildings with energy storage, then circuit X's non-residential new construction capacity is 0.003 MW ($0.021\% \times 14.38 \text{ MW}$). For non-residential ES existing disaggregation, circuit X's share among the top candidates is assumed to be 0.0433%. CEC IEPR non-residential ES forecast for the first forecast year is 35.05

²⁹ Internal SCE interconnection data shows correlation between ES, PV, and EV for residential customers.

³⁰ California Energy Commission, "CED: SCE Annual Installed ES Capacity (MW) on New Nonres Buildings" .

MW. Therefore, Circuit X’s non-residential ES capacity is 0.015 MW ($0.0433\% \times 35.05 \text{ MW} = 0.015 \text{ MW}$). The total Circuit X’s non-residential ES forecast is 0.018MW ($0.015 \text{ MW} + 0.003 \text{ MW} = 0.018\text{MW}$).

Figure 9 and Figure 10 below display the data sources, inputs, process, and outputs of SCE’s energy storage disaggregation process for residential and non-residential categories.

FIGURE 9: ENERGY STORAGE (RESIDENTIAL) FLOWCHART

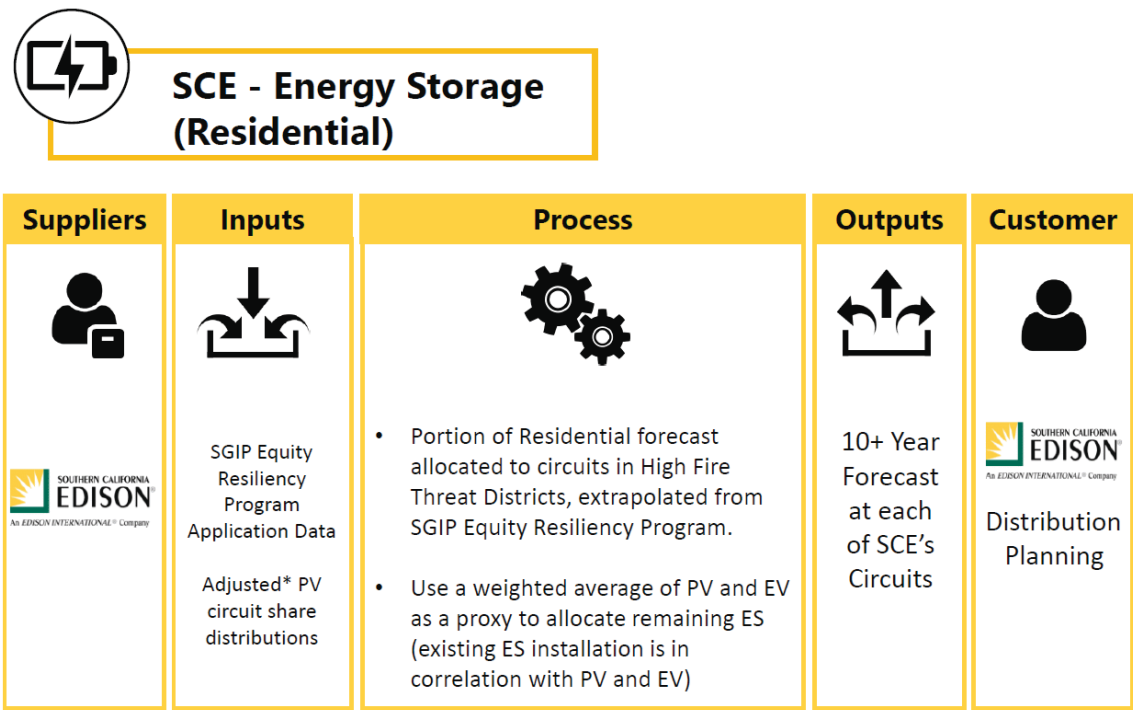
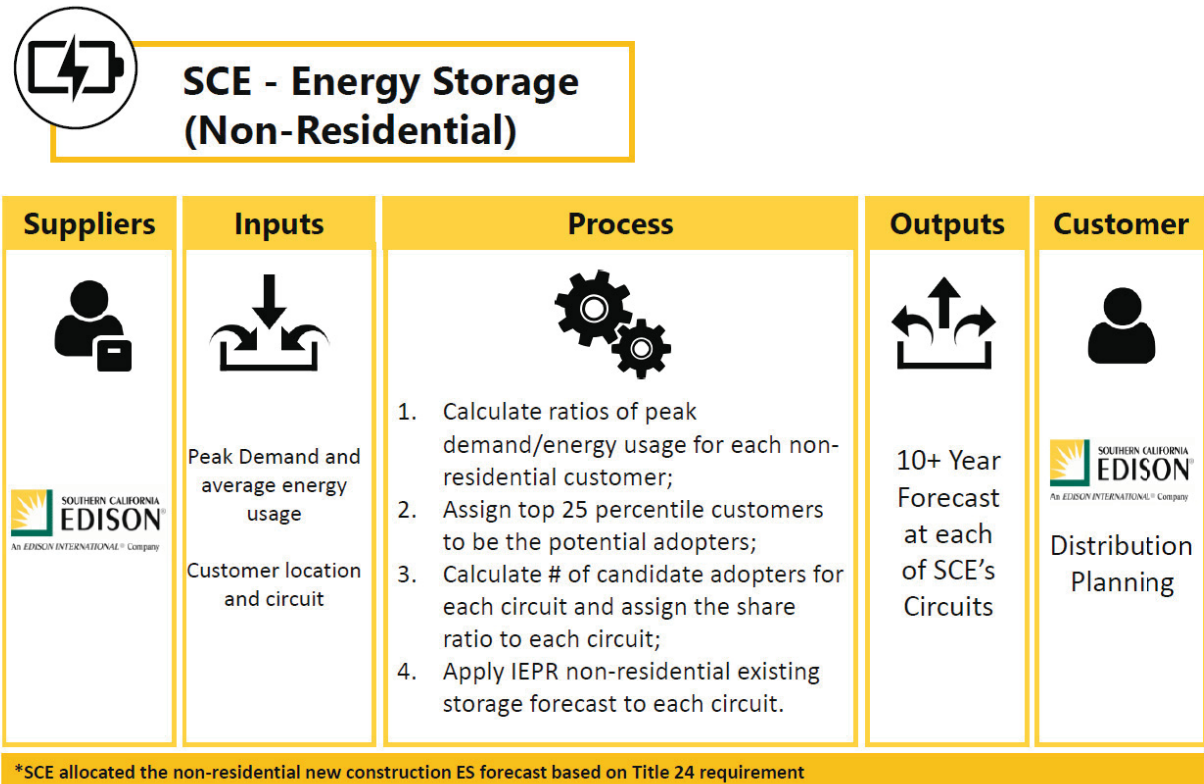


FIGURE 10: ENERGY STORAGE (NON-RESIDENTIAL) FLOWCHART



4.3.5. Fuel Substitution (Residential and Non-Residential)

Fuel substitution (FS) involves the transition from appliances that use one type of fuel to another, often leading to a decrease in gas use and an increase in electricity use. This section will detail SCE's method for disaggregating the CEC's IEPR forecast for Additional Achievable Fuel Substitution (AAFS)—inclusive of zero-emission appliance standards specified in the California Air Resources Board State Implementation Plan (CARB-SIP) and local Air Quality Management Districts (AQMD) emission rules—to individual circuits.

SCE also leverages the following data sources to inform the disaggregation process:

1. SCE's service territory residential and non-residential energy consumption values for circuits;
2. Residential housing stock forecast within SCE's service territory from Moody's Analytics;
3. Non-residential building stock within SCE's service territory from Dodge Analytics;
4. CEC's IEPR hourly load forecast for AAFS.

Disaggregation of IEPR's system-level AAFS forecast uses proportional scaling models that assume FS adoption is correlated to a circuit's aggregated customer energy usage and projected housing stock. The variables selected depends on the type of load and the sector. The CEC's AAFS load forecast can be broken out into two main categories:

1. FS Programs: Programs 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. Fuel Substitution Scenario Analysis Tool (FSSAT): The incremental electricity consumption resulting from the sale of zero-emission space and water heater appliances due to the CARB-SIP and local AQMD rules. FSSAT is the name of the tool that the CEC uses to model these policy impacts.

Each category is subdivided into Residential and Non-residential sectors, thus resulting in four mutually-exclusive buckets that the total CEC forecast can be separated into. SCE's detailed disaggregation steps are described below for each of these six categories of load:

1. Residential FS Programs:
 - a. Step 1 – Compute Allocation Share from Input Data: The first step extracts SCE residential customer's energy use circuit level total annual energy (GWh) using customer-level data from SCE's customer database. SCE then calculates a percentage of residential annual energy use for each circuit.
 - b. Step 2 - CEC AAFS Forecasts: SCE takes the annual AAFS forecast (in GWh) from the CEC forecasters that denotes residential AAFS programmatic impacts.
 - c. Step 3 - Disaggregation of FS: Use the allocation percent on each circuit and multiply it by the forecasted AAFS FS program impact.
2. Residential FSSAT:
 - a. Step 1 – Extend Dodge Housing Stock Forecast: The first step extends Dodge Analytics' housing stock forecast by calculating a compound average growth-rate (CAGR) from a ten-year history and applying that growth through to the end of the planning time horizon.
 - b. Step 2 – Map Residential Housing Stock Forecast to Circuits: Calculate circuit share for each county using number of customers from SCE's customer database.
 - c. Step 3 – CEC FSSAT Results: SCE receives the results of the FSSAT model (in GWh) from the CEC forecasters that denotes the CARB-SIP impact for the following sectors:
 - i. Residential FSSAT Impact
 - d. Step 4 – Disaggregation of FSSAT: This step uses the allocation percent on each circuit from Step 2 and multiplies it by the CEC's forecast for Residential FSSAT impacts from Step 3.
3. Non-Residential FS Programs:
 - a. Step 1 – Compute Circuit Allocation Share from SCE Energy Usage: The first step extracts SCE non-residential customer's energy use circuit level total annual energy (GWh) using customer-level data from SCE's customer database. SCE then calculates an average customer energy usage by dividing the total energy usage on a circuit by its number of customers. SCE then calculates a percentage of total average annual energy use for each circuit.
 - b. Step 2 - CEC AAFS forecasts: SCE receives the annual AAFS forecast (in GWh) from the CEC forecasters that denotes AAFS impact by sector for the following programs:
 - i. Commercial FS programs
 - a. Step 3 - Disaggregation of FS: This step builds on Step 1 and 2 by using the allocation percent on each circuit and multiplying it by the forecasted IEPR AAFS Commercial FS Program impact.
4. Non-Residential FSSAT:
 - a. Step 1 – Extend Dodge Building Stock Forecast: The first step extends Dodge Analytics' commercial building stock forecast through to the end of the planning time by applying a CAGR from a ten-year history.

- b. Step 2 – Map Commercial Building Stock Forecast to Circuits: Calculate circuit share for each county using number of commercial customers by industry-type from SCE’s customer database.
- c. Step 3 – CEC FSSAT Results: SCE receives the results of the FSSAT model (in GWh) from the CEC forecasters that denotes the CARB-SIP impact for the following sectors:
 - i. Commercial FSSAT Impact
- d. Step 4 – Disaggregation of FSSAT: This step uses the allocation percent on each circuit from Step 2 and multiplies it by the CEC’s forecast for Non-Residential FSSAT impacts from Step 3.

Using the CEC supplied IEPR system-level hourly forecast, SCE converted the AAFS hourly load modifier forecast (MW) into hourly percentages per forecast year so that the summation of the FS load percentage equal 100% for each year of the forecast. SCE then multiplied the normalized hourly percentages by the CEC supplied AAFS + FSSAT annual forecast. The normalization of hourly load shapes allowed SCE to distribute total SCE service territory FS impacts to hourly increments.

1. Residential FS Programs:

In this example, Circuit X’s residential customers consume a total of 16 GWh of electricity and SCE’s total residential energy use for its whole service territory is 279,000 GWh of electricity. Additionally, 16% of Circuit X’s residential customers are likely to adopt electrification technologies. To calculate a disaggregation factor, first Circuits X’s residential energy use is divided by total residential energy used, to calculate a disaggregation factor of 0.0057% ($16 \text{ GWh} / 279,000 \text{ GWh} \times 100 = 0.0057\%$). The portion of the CEC’s IEPR forecast devoted to residential FS programs in year Y is 100 MWh, thus, Circuit X in year Y is assigned 0.57 MWh ($100 \text{ MWh} \times 0.0057\% = 0.57 \text{ MWh}$) related to Residential FS programs.

2. Residential FSSAT:

In this illustrative example, Circuit X is forecasted to have a total of 2,000 residential units in year Y. The total number of residential units for all circuits for the year Y is 2,000,000. Therefore, Circuit X’s allocation factor is 0.1% ($2,000 / 2,000,000 \times 100 = 0.1\%$). The IEPR forecasts SCE to have 1,000 MWh of residential FS load associated with zero-emission appliance standards, thus, Circuit X in year Y is assigned 100 MWh ($1,000 \text{ MWh} \times 0.1\% = 100 \text{ MWh}$).

3. Non-Residential FS Programs:

In this example, Circuit X’s residential customers consume a total of 16 GWh of electricity and SCE’s total circuit-averaged non-residential energy use for its whole service territory is 500,000 GWh of electricity. To calculate an allocation factor, Circuits X’s average non-residential energy use is divided by total average non-residential energy used which yields 0.0032% ($16 \text{ GWh} / 500,000 \text{ GWh} \times 100 = 0.0032\%$). The IEPR AAFS forecasts SCE to have 92.05 MWh of load associated with new non-residential FS programs in year Y, thus, Circuit X in year Y is assigned 0.00295 MWh ($92.05 \text{ MWh} \times 0.0032\% = 0.00295 \text{ MWh}$) related to non-residential new construction.

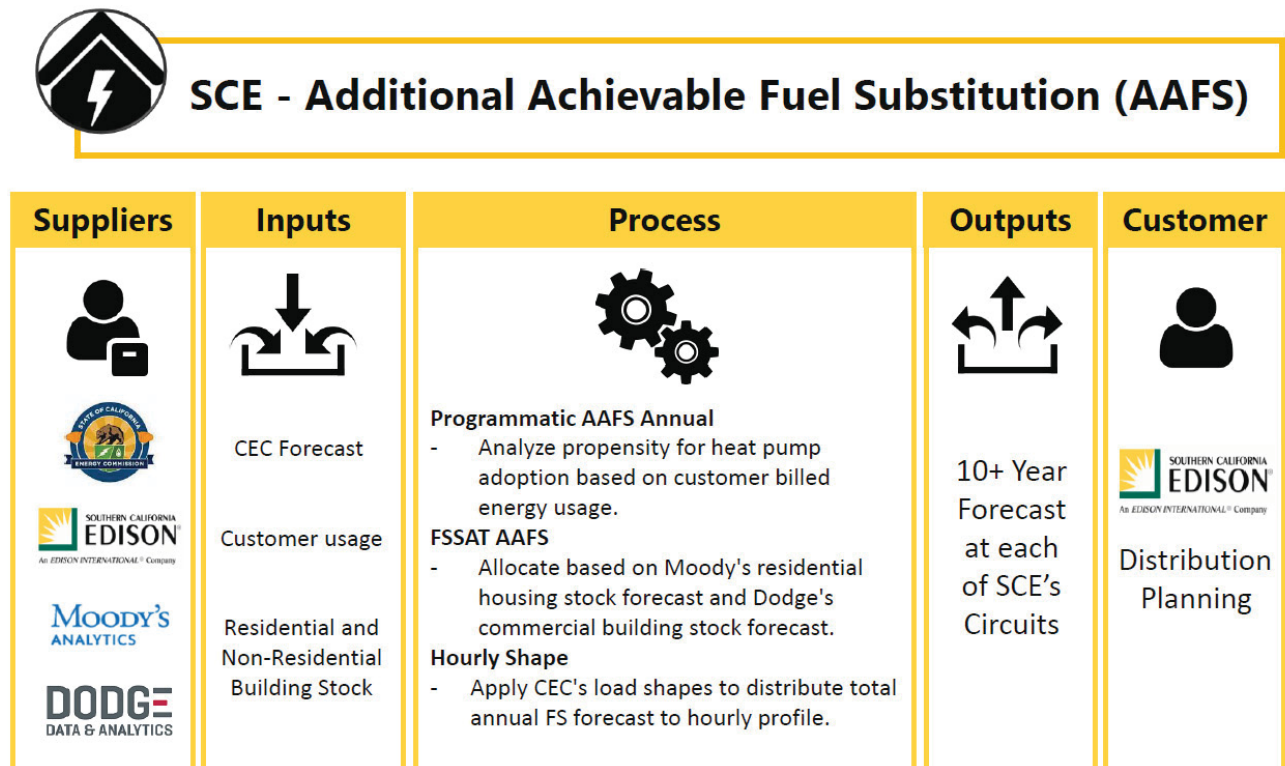
4. Non-Residential FSSAT:

In this example, customer data shows that Circuit has 2 non-residential customers with building type “Education” and assume no more customer under other building types for simplicity. Customer history and Dodge forecast estimates 6.51 sqft/customer for education-type buildings in year Y (Dodge data reflects the sqft forecast for different building types and customer data reflects customer count for different building types), thus, Circuit X would have 13.02 sqft ($2 \times 6.51 \text{ sqft/customer} = 13.02 \text{ sqft}$) in year Y under the “Education” category. If the total sqft is calculated to be 25,000 sqft after summing up the building stock forecast of all the building categories for all circuits, then Circuit X’s share is 0.052% ($13.02 \text{ sqft} / 25,000 \text{ sqft} \times 100 = 0.052\%$). The IEPR forecasts SCE to have 500 MWh of non-residential FS load associated with zero-emission appliance standards, thus, Circuit X in year Y is assigned 26.04 MWh ($500 \text{ MWh} \times 0.052\% = 26.04 \text{ MWh}$).

The total incremental MWh load in year Y for Circuit X is calculated by simply adding together each of the four components listed above.

Figure 11 below displays the data sources, inputs, process, and outputs of SCE’s AAFS disaggregation process.

FIGURE 11: FUEL SUBSTITUTION FLOWCHART



4.3.6. Sources of Pending Loads

Guided by D.24-10-030 and in coordination with Energy Division, SCE included early implementation of pending loads, which are defined as loads that are less certain than known loads, for the 2024-2025 planning year. SCE included these sources in order to support proactive planning geared towards the rapid growth of transportation electrification and housing development. SCE identified areas of significant load increases driven by transportation electrification that were not identified through the traditional planning process and incorporated the bottom-up forecast for truck stop locations and for the port of Long Beach, as well as residential development projects that have a Notice of Determination, into SCE planning.

In accordance with a Commission Resolution expected in October 2025, for the upcoming 2025-2026 planning year, SCE will fully implement all the categories of Pending Loads with their associated framework and guardrails.

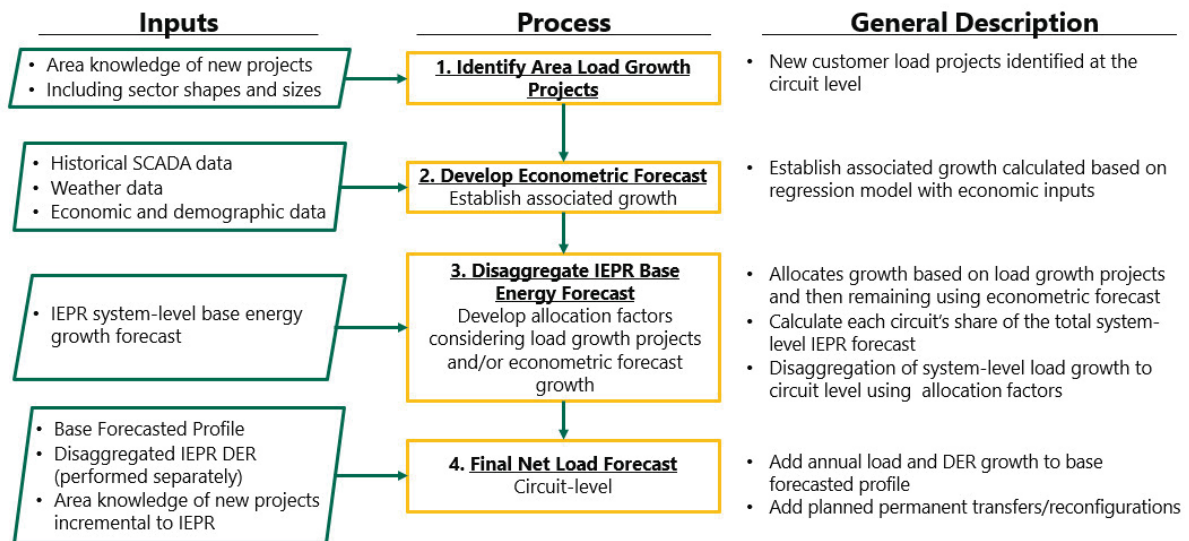
4.4. Load Disaggregation

SCE disaggregated the IEPR Demand Forecast based on an internally developed methodology that considered both LGP information and the annual growth projection derived from an in-house econometric model forecast.

4.4.1. Steps in the Load Disaggregation Process

FIGURE 12: LOAD DISAGGREGATION FLOWCHART

SCE's Overall Net Load Disaggregation Process



Below are the main steps SCE utilized to determine how future load growth should be distributed based on the IEPR demand forecast.

Step 1. Calculate IEPR Energy Specific to SCE Distribution System

The SCE energy consumption forecast from the IEPR includes EVs and municipalities not served by SCE's distribution system. EV energy is removed as it is disaggregated separately. Municipalities are also removed by using additional IEPR forms. The annual incremental energy consumption specific to SCE's system is then calculated.

Step 2. Calculate Embedded LGP Energy

Distribution planners collaborate with customers and local district staff to identify new LGP requests. Typically, small customer load requests are not included unless they significantly affect local circuits. Distribution planners gather project information such as location, demand size, operational plans, and completion date(s), and then identify appropriate circuits serve the new load. Given that LGP information provides higher certainty about locational load impacts, SCE prioritize LGP growth in its load disaggregation process. In the initial step of load disaggregation, only LGPs represented in the IEPR (a.k.a., embedded LGPs) are considered.

Customer demand from LGPs is first adjusted using a diversification factor to account for non-simultaneous loads. This adjusted demand is then converted to energy using representative shapes by customer type (residential, commercial, industrial, agricultural), based on actual usage data. Summing these yields the total annual incremental energy for each forecast year, which is compared with the IEPR annual incremental energy consumption.

Step 3. Comparison and Allocation

At the start of the forecast period, embedded LGPs energy is compared with the total IEPR energy consumption. The embedded LGPs energy is allocated in that year, and the sum of IEPR energy consumption is reduced by that amount, creating a new total for subsequent years in the forecast. This process is repeated until all identified LGPs energy has been allocated across the forecast period.

Step 4. Econometric Growth

SCE utilizes an econometric model generated load forecast to disaggregate any remaining IEPR load growth.

The time-series econometric models produce 10-year monthly energy forecasts for each circuit using multivariable regression. This analysis incorporates historical load profiles, econometric and demographic drivers by Metropolitan Statistical Area (MSA), and historical temperature data. Regression models are evaluated across multiple economic and temperature variables to identify the best fit one with the lowest positive Mean Absolute Percentage Error (MAPE).

Econometric growth is allocated in years when allocated LGPs growth does not exceed the IEPR annual incremental energy consumption forecast. This allocation continues, up to the annual incremental IEPR growth for each subsequent year, until total IEPR energy consumption forecast is fully disaggregated. The circuit-specific econometric growth leverages unique historical demand profiles to determine the impact of future demand increases.

Step 5. Incremental LGPs

LGPs determined to be outside the IEPR are allocated in the year of request at the magnitude requested with the diversification factor applied.

To estimate the circuit-level hourly load growth forecasts are determined by multiplying disaggregated load growth by the representative sector shape for new LGPs or by the hourly forecasted circuit load shape for the econometric model forecasted growth.

4.4.2. An Illustrative Example

In this example, the IEPR annual incremental energy consumption for year 1 is 1,000 GWh with a forecast horizon total of 10,000 GWh. The aggregate embedded LGP growth for year 1 amounts to 2,500 GWh. This 2,500 GWh of embedded LGP load will be allocated, resulting in 7,500 GWh of IEPR energy consumption remaining available for subsequent years. In year 2, the embedded growth is 1,500 GWh, which will also be allocated, leaving 6,000 GWh of IEPR energy consumption available for the remainder of the forecast period.

Circuit A has a 1.5 MW commercial load growth (embedded in IEPR) forecasted for year 1 with a DF of 0.75, resulting in a potential peak demand of 1.125 MW. This value, along with the commercial customer load shape, is used to generate an 8760-hour demand profile for that customer. If circuit A's net peak is at 6pm on Aug 29th and the commercial shape contributes 82% at that time, then 0.92 MW will be extracted from the profile to generate the net peak demand for circuit A.

If the IEPR energy consumption forecast for year 6 is 0.8 GWh and the embedded LGP growth accounts for 0.6 GWh, then 0.2 GWh of econometric growth is available for disaggregation. If the total system economic growth in year 6 is 0.4 GWh, then half of the forecasted econometric growth will be applied. Circuit A has 1000 MWh of econometric growth projected from the econometric model, then 500 MWh will be allocated. The econometric growth is distributed to each hour according to the unitized load shape of each circuit. If the unitized energy shape of circuit A has an allocation factor of 0.00016 at the peak time (6PM on Aug 29th), then 0.08 MW of economic growth will be added to the net peak demand of Circuit A.

Circuit A has a 2MW commercial EV charger (incremental to IEPR) forecasted for year 2 with a DF of 0.6, then 1.2 MW will be shaped. If the commercial EV charger load shape at 6pm on Aug 29th is at 95%, then 1.14 MW will be extracted from the profile and counted towards the Net Peak demand for Circuit A.

4.4.3. Forecast Assumptions and Methodological Enhancements

SCE's annual DPP produces a 10-year forecast that is based on assumptions which may be updated each year, such as input data, distribution system configuration, advancements in planning tools, and enhancements to the planning process. Each annual forecast remains valid until a new forecast is developed. Due to the range of variables involved, it is difficult to measure the yearly impact of these assumptions. SCE aims to minimize fluctuations between forecasts while incorporating new information as it becomes available.

A major factor influencing changes in the forecast is the input information. The following types of input information are used to develop the current forecast:

1. 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 implementing its LTPT and modernizing its planning process. The development of the LTPT has spurred advances in software and methodologies, resulting in a more informed planning process using 8760-hour loading profiles during disaggregation. Following full implementation of LTPT, SCE expects to adopt a fully profile-based forecast, which may result in further forecast methodology refinements and further changes

5. Known Load Projects Overview

This section illustrates how SCE implements Reform 2.6 from the 2023 DIDF Ruling and the subsequent 2024 DIDF Ruling. This reform focuses on tracking Known Load Projects or LGPs and whether they materialize. Reform 2.6 requires IOUs' GNA/DUPR filings to include a detailed review of Known Load Projects, including but not limited to, types, number, amounts, and timing. A summary that is similar to the evaluation provided in Section 3 of the March 17, 2022 IPE Report shall also be included.

Per Section 3.2 of the 2024 DIDF Ruling, pending load such as Electric Vehicle vendor forecast loads were included in the Known Load Project report for transparency in grid planning, but are excluded from the tracking metrics.

5.1. Understanding the Known Load Projects

The Known Load Projects report that accompanies SCE's 2025 GNA/DUPR filing includes the following information: the impacted circuit, unique project identifier, load type, 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.

In the 2023 DIDF Ruling³¹, the usage of the term "Load Sector" in relation to Known Load Project tracking was replaced with "Load Type". The "Load Type" can be one of six categories: Agriculture, Commercial, Residential, Industrial, Transportation or Energy Storage. SCE does not have any projects that are classified as the Energy Storage type.

The "Status" indicates whether the service request was completed, cancelled, ongoing, or new.

The "Load Category" is a subset category of each of the six load types. For example, the Commercial type may include load categories of Education, Health Care, Business, and Other.

The "IEPR Status" represents where the Known Load Projects 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).

³¹ pp. 10-11.

The “Requested Load Amount (MVA)” represents the total load amount requested by the customers over 10 years of the planning process. This does not account for loading adjustments that take place in SCE’s load disaggregation process.

The “Actual Load Amount” is not available for the 2025 GNA/DUPR filing. SCE will further explore how to include this information in future filings.

To align with the Project Execution template, the following fields will be updated:

The “Initial Service Request Date” will be renamed to “Energization Request Date” and represent the date when the Known Load Project was submitted by the customer. SCE is currently working on establishing a process to capture the actual energization dates for LGP customers.

The “Current Expected In-Service Date” will become the “Planned Energization Date” and represent the date the Known Load Project is expected to be energized.

The “Actual Service Date” will become the “Actual Energization Date” and represent the date the Known Load Project was energized. SCE is currently working on establishing a process to capture the actual energization dates for LGP customers, but for this report’s purposes we will populate this field with the Planned Energization Date

Note: SCE does not track historical in-service dates. In cases where insufficient data exists to determine the specific year an existing Known Load Project was energized, SCE will use January 1 of the earliest year that load occurs in the latest planning cycle. 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 “DUPR ID” will represent which projects on the DUPR are associated with each Known or Pending Load.

5.2. Known Load Project Metrics

Below are the Known Load Projects metrics spelled out in the 2025 Final IPE Post DPAG Report.³²

1. Total of all known loads (MVA and number of known loads)

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	1875.0	1047.6	462.1	327.1	137.1	53.0	113.9	29.9	36.4	31.7		4113.7
PY25		2544.3	1605.7	617.8	442.9	145.0	152.8	54.2	69.0	35.3	18.4	5685.4

Calculation Methodology:

The values are obtained by taking the summation of every known load’s Requested Load Amount for a given year.

³² Resource Innovations, 2025 Independent Professional Engineer, Final IPE Post DPAG Report, Mar. 17, 2025, p. 41. <https://docs.cpuc.ca.gov/PublishedDocs/Efile/G000/M558/K970/558970143.PDF>

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	1826	727	281	126	72	36	29	13	7	8		3125
PY25		1903	797	302	166	70	50	26	13	11	4	3342

Calculation Methodology:

The values are obtained by taking a count of the projects, for a given year, that have non-zero loading values.

2. Total of all known loads by category and type (MVA and number of known loads)

Calculation Methodology:

The same calculation methodologies as in requirement (1), along with the use of type and category filters, are used to obtain the following tables.

Agriculture Total

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	30.2	10.9	0.4	0	0.5	0	0	0	0	0		42.0
PY25		42.3	8.7	0	0.7	0	0	0	0	0	0	51.8

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	88	6	1	0	1	0	0	0	0	0		96
PY25		86	4	0	1	0	0	0	0	0	0	91

Commercial Total

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	478.5	359.1	233.8	163.4	37.1	9.1	17.3	10.5	5.9	7.2		1321.8
PY25		707.7	522.5	261.5	157.8	53.9	38.9	20.6	9.9	6.7	0.8	1780.5

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	679	325	131	47	22	12	9	4	2	3		1234
PY25		706	308	114	53	23	22	9	6	5	2	1248

Commercial/Education

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	19.5	11.9	2.9	1.6	1.5	1.5	1.5	0	0	0		40.2
PY25		21.4	11.8	11.4	1.9	1.9	1.9	0	0	0	0	50.4

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	31	15	2	1	1	1	1	0	0	0		52
PY25		35	11	4	1	1	1	0	0	0	0	53

Commercial/Health Care

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	27.2	20.2	3.3	1.5	0.2	0	0	0	0	0		52.4
PY25		33.0	20.6	2.7	1.7	2.0	2.4	0	0	0	0	62.4

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	30	15	5	1	1	0	0	0	0	0		52
PY25		27	12	2	2	1	1	0	0	0	0	45

Commercial/Business

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	248.8	211.5	142.0	68.8	31.7	10.0	11.2	10.1	5.5	5.5		745.2
PY25		394.9	283.7	156.7	85.3	30.9	21.9	16.6	5.5	5.5	0.5	1001.5

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	378	206	83	34	16	6	5	3	1	1		733
PY25		382	176	79	36	11	8	4	1	1	1	699

Commercial/Other

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	183.1	115.5	85.6	91.5	3.7	-2.4	4.6	0.5	0.3	1.7		484.1
PY25		258.5	206.3	90.6	68.9	19.1	12.7	4.0	4.4	1.2	0.4	666.2

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	240	89	41	11	4	5	3	1	1	2		397
PY25		262	109	29	14	10	12	5	5	4	1	451

Industrial Total

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	265.6	207.5	114.2	67.9	55.0	6.8	6.7	0	5.0	5.0		733.9
PY25		323.2	186.9	72.3	124.6	27.2	16.6	1.0	0	5.0	5.0	761.9

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	208	82	30	17	13	1	2	0	1	1		355
PY25		193	62	24	24	7	4	1	0	1	1	317

Industrial/Plants

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	94.9	44.6	24.8	3.5	1.5	0	0.8	0	0	0		170.0
PY25		121.8	86.2	6.5	9.5	6.0	2.5	1.0	0	0	0	233.5

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	79	33	14	3	2	0	1	0	0	0		132
PY25		82	30	7	5	3	1	1	0	0	0	129

Industrial/Facilities

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	11.5	8.6	5.0	3.7	1.7	0	0	0	0	0		30.3
PY25		24.3	15.3	4.9	2.2	0	0	0	0	0	0	46.7

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	7	7	4	5	3	0	0	0	0	0		26
PY25		13	7	5	3	0	0	0	0	0	0	28

Industrial/Cultivation

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	149.2	143.1	84.5	60.8	51.9	6.8	6.0	0	5.0	5.0		512.3
PY25		168.5	83.7	59.9	101.5	21.0	12.8	0	0	5.0	5.0	457.5

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	119	39	12	9	8	1	1	0	1	1		191
PY25		95	24	11	15	3	2	0	0	1	1	152

Industrial/Other

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	10.1	11.2	0	0	0	0	0	0	0	0		21.3
PY25		8.7	1.7	1.1	11.4	0.2	1.3	0	0	0	0	24.2

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	3	3	0	0	0	0	0	0	0	0		6
PY25		3	1	1	1	1	1	0	0	0	0	8

Residential Total

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	194.8	203.1	110.0	68.9	44.5	37.1	28.7	19.3	25.5	19.5		751.4
PY25		345.5	284.7	202.7	123.1	63.8	48.3	32.6	34.1	23.5	12.5	1170.9

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	334	238	117	59	36	23	16	9	4	4		840
PY25		428	269	155	80	40	22	16	6	5	1	1022

Residential/Home Construction

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	176.5	163.9	100.7	54.1	40.5	37.1	28.7	19.3	25.5	19.5		665.9
PY25		323.8	253.5	189.6	119.9	63.8	48.3	32.6	34.1	23.5	12.5	1101.7

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	303	215	108	53	33	23	16	9	4	4		768
PY25		399	252	147	78	40	22	16	6	5	1	966

Residential/Other

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	18.3	39.2	9.3	14.8	3.9	0	0	0	0	0		85.5
PY25		21.8	31.1	13.1	3.1	0	0	0	0	0	0	69.2

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	31	23	9	6	3	0	0	0	0	0		72
PY25		29	17	8	2	0	0	0	0	0	0	56

Transportation Total

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	906.0	266.9	3.7	26.8	0	0	61.2	0	0	0		1264.6
PY25		1125.6	602.8	81.2	36.7	0	49.0	0	25.0	0	0	1920.4

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	517	76	2	3	0	0	2	0	0	0		600
PY25		490	154	9	8	0	2	0	1	0	0	664

Transportation/LD EV

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	488.9	62.4	0	0	0	0	0	0	0	0		551.3
PY25		577.0	159.4	0	23.4	0	0	0	0	0	0	759.8

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	354	37	0	0	0	0	0	0	0	0		391
PY25		315	78	0	6	0	0	0	0	0	0	399

Transportation/MDHD EV

Total MVA of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	417.1	204.5	3.7	26.8	0	0	61.2	0	0	0		713.3
PY25		548.5	443.4	81.2	13.3	0	49.0	0	25.0	0	0	1160.6

Number of all known loads by year:

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Grand Total
PY24	163	39	2	3	0	0	2	0	0	0		209
PY25		175	76	9	2	0	2	0	1	0	0	265

3. Annual Change (relative to the previous Tracking Data submitted by the utility) in total of all known loads (MVA, % and number of known loads)

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
94.3	50.9	-8.0	45.1	6.8	11.9	6.6	5.7	4.2	217.5

Calculation Methodology:

The values are calculated by taking the difference of loading values for each year between PY24 and PY25, excluding year 2024 and 2034. Once this is done for every project, all project changes are summed to get the total annual change in MVA. Projects without loading for PY24 (new projects for PY25) or PY25 (cancelled or energized PY24 projects) are excluded from the calculation methodology. A positive value reflects an increase in load from PY24 to PY25, while a negative value indicates a decrease.

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		9%	11%	-2.4%	32.8%	12.8%	10.4%	22.2%	15.5%	13.3%	
PY25		3.7%	3.1%	-1.2%	10.1%	4.7%	7.7%	12.2%	8.1%	11.9%	

Calculation Methodology:

The values are calculated by dividing the annual change for each year (from the previous metric) by the total known loads for PY24 and PY25, respectively (see Metric 1) for that year.

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
397	173	89	47	25	18	9	2	2	762

Calculation Methodology:

The values are obtained by taking a total count of projects that have a change in load (from PY24 to PY25) for a given year; projects with no load change are not counted.

4. Annual Change (relative to the previous Tracking Data submitted by the utility) in total of all known loads and also broken out by category and type (MVA, % and number of known loads)

Calculation Methodology:

The same calculation methodologies as in requirement (3), along with the use of type and category filters, are used to obtain the following tables.

Agriculture Total

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
2.0	0.1	0	0.2	0	0	0	0	0	2.3

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		18.4%	33.3%	0%	33.3%	0%	0%	0%	0%	0%	
PY25		4.7%	1.5%	0%	25%	0%	0%	0%	0%	0%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
5	1	0	1	0	0	0	0	0	7

Commercial Total

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
48.8	23.8	-32.3	10.2	2.7	5.1	1.5	0.1	0.2	60.1

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		13.5%	10.1%	-19.7%	27.5%	29%	29.6%	14.5%	1.8%	2.6%	
PY25		6.8%	4.5%	-12.3%	6.4%	4.9%	13.1%	7.4%	1.1%	2.8%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
165	72	30	15	8	7	2	1	1	301

Commercial/Education

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
1.1	-1.3	0.5	0.5	0.5	0.5	0	0	0	1.7

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		8.9%	-44.6%	33.3%	33.3%	33.3%	33.3%	0%	0%	0%	
PY25		4.9%	-10.8%	4.5%	25%	25%	25%	0%	0%	0%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
9	2	1	1	1	1	0	0	0	15

Commercial/Health Care

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
5.0	0.7	0.5	0.1	0	0	0	0	0	6.3

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		24.7%	21.9%	33.3%	33.3%	0%	0%	0%	0%	0%	
PY25		15.1%	3.4%	18.2%	4.4%	0%	0%	0%	0%	0%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
11	4	1	1	0	0	0	0	0	17

Commercial/Business

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
20.2	15.7	7.1	8.7	-0.6	2.9	1.3	0	0	55.3

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		9.5%	11%	10.3%	27.6%	-5.4%	25.8%	12.3%	0%	0%	
PY25		5.1%	5.5%	4.5%	10.2%	-1.7%	13.2%	7.5%	0%	0%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
93	46	20	11	4	3	1	0	0	178

Commercial/Other

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
22.6	8.7	-40.4	0.9	2.7	1.8	0.3	0.1	0.2	-3.2

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		19.5%	10.1%	-44.1%	24%	-115.1%	37.8%	63.3%	32.4%	11.5%	
PY25		8.7%	4.2%	-44.6%	1.3%	14.2%	13.8%	7%	2.5%	15.9%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
52	20	8	2	3	3	1	1	1	91

Industrial Total

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
-7.5	10.0	6.1	12.6	0	0	0	0	0	21.3

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		-3.6%	8.7%	8.9%	22.9%	0%	0%	0%	0%	0%	
PY25		-2.3%	5.3%	8.4%	10.1%	0%	0%	0%	0%	0%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
40	16	9	6	0	0	0	0	0	71

Industrial/Plants

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
1.8	6.6	0.5	0.1	0.0	0.0	0.0	0.0	0.0	8.9

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		3.9%	26.5%	13.4%	7.6%	0%	0%	0%	0%	0%	
PY25		1.4%	7.6%	7.2%	1.1%	0%	0%	0%	0%	0%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
17	9	2	1	0	0	0	0	0	29

Industrial/Facilities

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
8.4	1.7	1.2	0.6	0	0	0	0	0	11.9

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		98.6%	33.3%	33.3%	33.3%	0%	0%	0%	0%	0%	
PY25		34.7%	10.8%	25%	25%	0%	0%	0%	0%	0%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
6	4	5	3	0	0	0	0	0	18

Industrial/Cultivation

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
-15.1	1.7	4.4	12.0	0	0	0	0	0	3.0

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		-10.5%	2%	7.2%	23%	0%	0%	0%	0%	0%	
PY25		-8.9%	2%	7.3%	11.8%	0%	0%	0%	0%	0%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
14	3	2	2	0	0	0	0	0	21

Industrial/Other

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
-2.6	0	0	0	0	0	0	0	0	-2.6

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		-22.8%	0%	0%	0%	0%	0%	0%	0%	0%	
PY25		-29.5%	0%	0%	0%	0%	0%	0%	0%	0%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
3	0	0	0	0	0	0	0	0	3

Residential Total

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
34.9	15.7	13.0	22.1	4.2	6.8	5.1	5.6	4.0	111.3

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		17.2%	14.3%	18.8%	49.5%	11.2%	23.6%	26.3%	21.7%	20.6%	
PY25		10.1%	5.5%	6.3%	17.9%	6.5%	14%	15.6%	16.2%	17%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
162	82	48	25	17	11	7	1	1	354

Residential/Home Construction

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
32.3	13.0	16.4	22.1	4.2	6.8	5.1	5.6	4.0	109.3

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		19.7%	12.8%	30.2%	54.4%	11.2%	23.6%	26.3%	21.7%	20.6%	
PY25		9.9%	5.1%	8.6%	18.3%	6.5%	14%	15.6%	16.2%	17%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
150	79	46	25	17	11	7	1	1	337

Residential/Other

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
2.6	2.8	-3.4	0	0	0	0	0	0	2.0

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		0%	2.1%	0.8%	7.6%	0%	0%	0%	0%	0%	
PY25		12%	8.9%	-25.8%	0%	0%	0%	0%	0%	0%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
12	3	2	0	0	0	0	0	0	17

Transportation Total

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
16.0	1.2	5.3	0	0	0	0	0	0	22.5

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		6%	33.3%	19.6%	0%	0%	0%	0%	0%	0%	
PY25		1.4%	0.2%	6.4%	0%	0%	0%	0%	0%	0%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
25	2	2	0	0	0	0	0	0	29

Transportation/LD EV

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
6.0	0	0	0	0	0	0	0	0	6.0

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		9.5%	0%	0%	0%	0%	0%	0%	0%	0%	
PY25		1%	0%	0%	0%	0%	0%	0%	0%	0%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
7	0	0	0	0	0	0	0	0	7

Transportation/MD/HD EV

Annual change, relative to the previous tracking data PY24, in total of all known loads (MVA):

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
10.0	1.2	5.3	0	0	0	0	0	0	16.5

Annual change in total of all known loads (%):

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
PY24		4.9%	33.3%	19.6%	0%	0%	0%	0%	0%	0%	
PY25		1.8%	0.2%	6.4%	0%	0%	0%	0%	0%	0%	

Annual change in number of known loads:

2025	2026	2027	2028	2029	2030	2031	2032	2033	Grand Total
18	2	2	0	0	0	0	0	0	22

5. Service Amount Deferred (MVA)

Total Service Amount Deferred:	Service Amount Deferred (Deferred 1):	Service Amount Deferred (Deferred 2):	Service Amount Deferred (Deferred 3):
1273.6	17.9	73.5	1182.2

Deferred1: Final load year has moved to the right in PY25

Calculation Methodology:

For projects classified as “Deferred1”, the service amount deferred is the total requested load for each project beyond the final load year in PY24 .

Deferred2: Initial load year has moved to the right in PY25

Calculation Methodology:

For projects classified as “Deferred2”, the service amount deferred is the total requested load for each project before the initial load year in PY25.

Deferred3: Both initial and final year have moved to the right in PY25

Calculation Methodology:

For projects classified as “Deferred3”, the service amount deferred is the total requested load for these projects in PY24, excluding years when PY24 and PY25 forecasts are equal.

Calculation Methodology for Total Service Amount Deferred:

The Total Service Amount Deferred is the combined service amount deferred from Deferred1, Deferred2, and Deferred3 projects.

6. Service Deferral Rate Total (%)

Service Deferral Rate Total:	Service Deferral Rate Total (Deferred1):	Service Deferral Rate Total (Deferred2):	Service Deferral Rate Total (Deferred3):
35.1%	0.8%	4.1%	30.2%

Calculation Methodology:

The Service Deferral Rate Total for each category is calculated by dividing that category's project count by the total number of ongoing projects with load in both PY24 and PY25.

7. Service Deferral Rate by Category and Type (%)

Type/Category	Total Deferred	Deferred 1	Deferred 2	Deferred 3
Agriculture:	0.8%	0%	0.8%	0%
Commercial:	5.6%	0.5%	1.7%	3.5%
Commercial/Education:	7.4%	3.7%	1.9%	1.9%
Commercial/Health Care:	8.5%	2.1%	4.3%	2.1%
Commercial/Business:	5.9%	0.1%	1.8%	3.9%
Commercial/Other:	4.5%	0.4%	1.1%	3.0%
Industrial:	7.7%	0.3%	2.4%	5.0%
Industrial/Plants:	5.7%	0%	1.4%	4.3%
Industrial/Facilities:	18.8%	0%	18.8%	0%
Industrial/Cultivation:	7.8%	0.6%	1.7%	5.6%
Industrial/Other:	25.0%	0%	0%	25.0%
Residential:	14.5%	0.9%	5.3%	8.2%
Residential/Home Construction:	15.2%	1.0%	5.9%	8.4%
Residential/Other:	6.5%	0%	0%	6.5%
Transportation:	44.1%	0%	0%	44.1%
Transportation/LD EV:	45.5%	0%	0%	45.5%
Transportation/MD/HD EV:	41.6%	0%	0%	41.6%

Calculation Methodology:

The Service Deferral Rate by Category and Type equals the number of projects within a category/type and within a deferral category divided by the total ongoing projects in the same category/type.

8. Cancellation Rate Total (%)

Cancellation Rate Total: 9.8%

Calculation Methodology:

The cancellation rate total is calculated as the number of "cancelled" projects divided by the total number of projects (with project status Canceled/Energized/Ongoing/New) included in the Known Load Projects report.

9. Cancellation Rate by category and type (%)

Type/Category	Cancellation Rate
Agriculture:	0.81%
Commercial:	7.96%
Commercial/Education:	3.70%
Commercial/Health Care:	4.26%
Commercial/Business:	7.36%
Commercial/Other:	9.79%
Industrial:	12.39%
Industrial/Plants:	5.00%
Industrial/Facilities:	6.25%
Industrial/Cultivation:	18.99%
Industrial/Other:	0%
Residential:	5.78%
Residential/Home Construction:	5.08%
Residential/Other:	12.90%
Transportation:	16.14%
Transportation/LD EV:	18.59%
Transportation/MD/HD EV:	11.99%

Calculation Methodology:

The cancellation rate by category and type is calculated as the number of “cancelled” projects of a selected category and type divided by the total number of projects in that group.

10. Service Request Amount Increase Rate Total and Average Amount (% , MVA)

Service Request Amount Increase Rate Total	Average Amount Increase (MVA)
9.7%	0.81

Calculation Methodology:

For all the known load projects where the service request amount increases from PY24 to PY25 (excluding projects without loading for PY24 or PY25, such as new, cancelled or energized projects), the total increase in service request amounts (i.e., the sum of all positive year-over-year differences) is aggregated and then divided by the sum of the PY24 service request amounts for the same set of projects. This calculation yields the “Service Request Amount Increase Rate Total”. The “Average Amount Increase” is determined by computing the average of all the service request amount increase within this set of projects.

11. Service Request Amount Increase Rate by category/type and Average Amount (% , MVA)

Type/Category	Service Request Amount Increase Rate	Average Amount Increase (MVA)
Agriculture:	33.3%	0.8
Commercial:	38.2%	1.0
Commercial/Education:	24.2%	0.8
Commercial/Health Care:	26.6%	0.7
Commercial/Business:	36.6%	0.9
Commercial/Other:	46.6%	1.1
Industrial:	23.6%	1.4
Industrial/Plants:	33.4%	1.0
Industrial/Facilities:	26.3%	1.3
Industrial/Cultivation:	29.2%	2.2
Industrial/Other:	1.2%	0.2
Residential:	35.0%	1.2
Residential/Home Construction:	35.0%	1.3
Residential/Other:	32.9%	0.4
Transportation:	40.0%	0.7
Transportation/LD EV:	42.2%	0.6
Transportation/MD/HD EV:	37.3%	0.9

Calculation Methodology:

For all the known load projects where the service request amount increases from PY24 to PY25, of type/category filtered projects (excluding projects without loading for PY24 or PY25, such as new, cancelled or energized projects), the total increase in service request amounts (i.e., the sum of all positive year-over-year differences) is aggregated and then divided by the sum of the PY24 service request amounts for the same set of projects. This calculation yields the “Service Request Amount Increase Rate”. The “Average Amount Increase” is determined by computing the average of type/category filtered projects of all the service request amount increase within this set of projects.

12. Service Request Amount Decrease Rate Total and Average Amount (% , MVA)

Service Request Amount Decrease Rate Total	Average Amount Decrease (MVA)
-2.4%	-1.7

Calculation Methodology:

For all the known loads where the service request amount decreases from PY24 to PY25 (excluding projects without loading for PY24 or PY25, such as new, cancelled or energized projects), the total decrease in service request amounts (i.e., the sum of all negative year-over-year differences) is aggregated and then divided by the sum of the PY24 service request amounts for the same set of projects. This calculation yields the “Service Request Amount Decrease Rate Total”. The “Average Amount Decrease” is determined by computing the average of all the service request amount decrease within this set of projects.

13. Service Request Amount Decrease Rate by category/type and Average Amount (% MVA)

Type/Category	Service Request Amount Decrease Rate	Average Amount Decrease (MVA)
Agriculture:	0%	0
Commercial:	39.4%	-1.1
Commercial/Education:	72.4%	-3.9
Commercial/Health Care:	33.3%	-0.5
Commercial/Business:	44.0%	-1.0
Commercial/Other:	14.7%	-0.6
Industrial:	77.6%	-21.9
Industrial/Plants:	0%	0
Industrial/Facilities:	0%	0
Industrial/Cultivation:	77.6%	-21.9
Industrial/Other:	0%	0
Residential:	30.2%	-1.2
Residential/Home Construction:	17.7%	-0.6
Residential/Other:	79.4%	-5.8
Transportation:	60.3%	-5.0
Transportation/LD EV:	43.4%	-1.2
Transportation/MD/HD EV:	63.0%	-7.7

Calculation Methodology:

For all the known load projects where the service request amount decreases from PY24 to PY25, of type/category filtered projects (excluding projects without loading for PY24 or PY25, such as new, cancelled or energized projects), the total decrease in service request amounts (i.e., the sum of all negative year-over-year differences) is aggregated and then divided by the sum of the PY24 service request amounts for the same set of projects. This calculation yields the “Service Request Amount Decrease Rate”. The “Average Amount Decrease” is determined by computing the average of type/category filtered projects of all the service request amount decrease within this set of projects.

6. GNA Overview

This section provides a high-level description of the data contained in SCE’s 2025 GNA report.

6.1. DER Distribution Services

- **Capacity Services:** 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.

- **Reliability Services (Back-Tie):** 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 would have one distribution service as reliability and another distribution service as either capacity or voltage listed in the DUPR to distinguish them from the capacity or voltage services provided for normal system conditions.
- **Resiliency Services (Microgrid):** 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.
- **Voltage Support Services:** Dynamic voltage management services to dynamically correct excursions outside voltage limits established by Rule 2³³ 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.

6.2. Summary of Grid Needs

This section provides a set of tables summarizing data contained in SCE's 2025 GNA report.

TABLE 2: 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	34	80	6	10	0	5	135
Metro East	45	77	13	16	0	4	155
Metro West	74	16	7	3	0	0	100
North Coast	4	20	5	2	1	0	32
North Valley	21	18	5	6	1	1	52
Orange	13	70	9	3	0	0	95
Rurals	17	21	10	2	0	2	52
San Jacinto	15	24	8	3	0	0	50
San Joaquin	8	22	0	0	0	0	30
Total	231	348	63	45	2	12	701

³³ SCE Tariff Books, *Rule 2: Description of Services* (available at <https://www.sce.com/regulatory/tariff-books/rules>).

TABLE 3: 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	137	348	58	2	0	12	557
Distribution Substation	75	0	0	1	0	0	76
Subtrans. Substation	7	0	5	12	2	0	26
Subtransmission Line	12	0	0	30	0	0	42
Total	231	348	63	45	2	12	701

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:

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

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 Table 15. 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 DUPR (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 DUPR, 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 DUPR.

7. DUPR Overview

This section provides a high-level overview of the data presented in SCE’s 2025 DUPR.

The DUPR outlines SCE’s Planned Investments and Planned Solutions designed to address grid needs identified in the GNA report.

SCE's DUPR represents a point-in-time snapshot of all Planned Investments and Planned Solutions as of the conclusion of SCE's annual DPP. Any updates or changes occurring after the DPP's completion are not reflected in the DUPR.

To align with the newly adopted Project Execution template, projects that include both distribution and substation components are reported separately in the 2025 DUPR. Previously, such projects were consolidated and presented as a single entry.

7.1. Planned Investments vs Planned Solutions

The GNA forms the basis for the DUPR report. A single Planned Investment or Planned Solution may mitigate multiple grid needs identified in the GNA.

Planned Investments refer to distribution planning projects approved to address grid needs that have been submitted for execution. Planned Solutions are proposed distribution planning solutions for which funding within the current planning horizon is not currently available. A Planned Solution can potentially become a Planned Investment in the future if it is submitted for project execution. A Planned Investment, once submitted, may be subject to deferral or temporary suspension contingent upon adjustments in resource allocation or strategic planning priorities.

7.2. Summary of Planned Solutions

As of this filing, Planned Solutions are still being identified.

7.3. Summary of Planned Investments

This section provides a set of tables summarizing data contained in SCE's 2025 DUPR planned investment list.

TABLE 4: SUMMARY OF PLANNED INVESTMENTS BY REGION AND BY PROJECT TYPE

Region	Project Type			
	Distribution	Distribution VAR	Subtransmission	Total
Desert Region	69	8	14	91
Metro East Region	95	12	15	122
Metro West Region	80	9	6	95
North Coast Region	26	5	4	35
North Valley Region	37	6	7	50
Orange Region	35	11	6	52
Rurals Region	34	10	0	44
San Jacinto Region	33	8	4	45
San Joaquin Region	36	0	2	38
Total	445	69	60	574

TABLE 5: SUMMARY OF PLANNED INVESTMENTS BY DISTRIBUTION SERVICE

Distribution Service						Total
Capacity	Voltage	Reactive Power	Reliability, Capacity	Reliability, Voltage	Resiliency	
915	13	74	62	2	0	1066

TABLE 6: SUMMARY OF PLANNED INVESTMENTS BY OPERATING DATE

Operating Date					
2025	2026	2027	2028	2029	Total
143	187	141	52	36	559

Projects included in Table 6 above are those in the current 5-year planning horizon.

7.4. Distribution Planning Prioritization

Ordering Paragraph 15 of D.24-10-030 required the IOUs to describe how projects identified throughout the distribution planning horizon have been prioritized for execution. SCE's project prioritization process is multifaceted and considers many constraints, needs, and factors including minimizing customer energization delays.

When prioritizing projects for execution, SCE's primary goal is to minimize instances of energization delays. Projects for wildfire mitigation are highly weighted and may result in coordination with projects resulting from the annual distribution planning process. Need date, criteria violations, and reliability are also incorporated. Lastly, SCE engineers with local area knowledge provide input, apply other internal/external factors not captured by the algorithm and leverage best practices to refine the prioritization.

SCE's prioritization methodology is continuously being improved to reduce redundancies, streamline solutioning, and increase SCE's ability to build out to meet load growth and electrification needs in a timely manner, supporting the state's clean air and energy policy goals.

For additional details on the overall distribution planning process and how solutions are evaluated, please see SCE-02 Grid Activities in SCE's 2025 General Rate Case. Updates to SCE's project prioritization process will be provided in subsequent annual filings of the present report and the annual DPAG.

7.5. 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 DUPR.

- **DUPR Project ID:** a project identifier used to associate different components of a single project. For example, a single project that would mitigate needs of multiple assets might have 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. SCE cross-references the current Planned Investments with previous DUPR and DDOR

reports up to 2019 when DDOR Project IDs were introduced. DUPR IDs can be either DDOR Project IDs or DUPR Project IDs depending on what year the project first appeared in the filing.

- DUPR 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 DUPR report.

When cross-referencing information in SCE’s GNA report and DUPR, it is important to note the GNA report contains needs on individual assets while the DUPR 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 DUPR.

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.

There are some planned investments with no needs in the five-year horizon, as determined through SCE’s 2025 DPP. Most of these scenarios are because the projects are either already completed (with an operating date in early 2025) 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 2025 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 2027). For example, a project may be designed to mitigate needs on two assets, with one asset expected to have capacity need starting in 2026 (within the five-year horizon), and the other asset expected to have capacity needs starting in 2029 (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.

7.6. Understanding the Planned Solutions Report

The Planned Solutions report follows the same convention as the Planned Investments report, using the three identifiers, DUPR Project ID, DUPR ID, and GNA ID to facilitate the linkage between the grid needs in its GNA report and the Planned Investments/Planned Solutions projects in its DUPR.

As of this filing, no Planned Solutions have been identified for the 2024-2025 DPP.

8. Project Execution (PE) Tracking Metrics Overview

To increase transparency in the execution of distribution capacity projects and the distribution planning process, the inclusion of project execution metrics has been adopted as described in D. 24-10-030. These metrics will provide additional details for distribution capacity projects as well as lead to fulfillment of Pub. Util. Code § 933.5(a)(2).

The Project Execution template is designed to capture key data throughout the lifecycle of a project. Future enhancements will include fields to document whether a project is associated with other workstreams, record cost data for completed projects, and capture the rationale for any project pauses or cancellations.

For 2025, only new projects submitted since the issuance of D. 24-10-030 are reflected in the Project Execution Template. Additional project information will be included in future filings as it becomes available.

9. 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-E, 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-E are considered Post-Application projects. Table 7 lists the Pre-Application and Post-Application projects included in SCE's 2025 DUPR and their approval status.

TABLE 7: PRE-APPLICATION PROJECTS AND POST-APPLICATION PROJECTS INCLUDED IN SCE's 2025 DUPR

Project ID/ Name	Project Type	Approval Status	DUPR Report
DDOR_2020_4800: Del Valle 66/16 kV Substation	Post- Application	CAISO: N/A CPUC: SCE submitted an Advice Letter in 2025. SCE: Licensing activities authorized internally in 2015.	Planned Investments
DDOR_2019_6092: Alberhill System Project	Post- Application	CAISO: Approval 2009 SCE: Filed third amended PEA June 2023 CPUC: Addendum to FEIR issued June 2024, estimated CPUC approval 2025/ 2026	Planned Investments
DDOR_2019_6871: Rector – Riverway No.2 Subtransmission Line	Pre- Application	CAISO: N/A SCE: Estimated licensing activities approval June 2029	Planned Investments

10. 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 DUPR data on their corresponding circuit maps.

In the 2020 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, DUPR, 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 twenty Bulk Electric System transmission projects with operating dates in 2025- 2034.

10.1. Changes in DRPEP

For the current year, updates to DRPEP affecting the GNA_DUPR layers have been minimal and focused primarily on nomenclature. Specifically, the transition from "DDOR" to "DUPR" has been incorporated throughout the platform and data layers, reflecting the streamlined approach to system labeling and consistency. No additional structural or data modifications to these layers have been introduced beyond this terminology update.

Per the ruling D 24-10-030, LNBA values from 2023 will continue to be displayed with a new disclaimer denoting the reasoning for the pause in LNBA data. The verbiage of the disclaimer is shown below:

"Disclaimer: As directed by Decision 24-10-030, issued October 23, 2024, this layer will not display 2024-2025 LNBA information. The CPUC (California Public Utilities Commission) has requested to remove the requirement for LNBA analysis. Any additional questions can be directed to DRPEPQA@sce.com."

Additionally, the DUPR layer will not display the "LNBA value" column because no 2025 LNBA values are being calculated. Concurrently, the column will also be removed from the attribute table to reduce any confusion.

10.2. Utilizing SCE's new internal grid hierarchy database for Online Circuit Maps and Associated Circuit Information

The GNA and DUPR map layers are developed using the circuit topology information from SCE's internal grid connectivity database and will not follow ICA. When a circuit is decommissioned, the decommissioned circuit is removed from the internal grid connectivity database as a result. If this decommissioned circuit shows a need in the GNA report and is associated with a planned investment in the DUPR, it would be also removed from the GNA and DUPR map layers. On the other hand, any new circuits or circuit upgrades such as system modifications, new construction, or general data mapping will eventually be reflected in the internal grid connectivity database and will automatically be updated on the GNA and DUPR layers on DRPEP.

The GNA presents forecasted cumulative demand and DER growth on either a circuit or substation level over a 5-year forecast horizon and the resulting forecasted equipment deficiencies and thus accounts for most circuits considered under our distribution planning forecast. The ICA circuit list should not affect the number of circuits shown on both the GNA and DUPR layers going forward. The "Planning Assumptions_Feeder" and "Planning

Assumptions_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.

11. Data Redaction

Pursuant to Pub. Util. Code § 8380(b) (1) and (d), D.97-10-031 and D.14-05-016, 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 2025 GNA report and DUPR can be utilized to derive customer energy use or demand and must be redacted under the 15/15 Rule:

- Equipment Rating³⁴ 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 DUPR
- Cumulative Demand for applicable distribution facilities in the “Planning Assumptions_Feeder” and “Planning Assumptions_DistSub” sheets
- Facility Loading (%) for applicable distribution facilities in the “Planning Assumptions_Feeder” and “Planning Assumptions_DistSub” sheets
- Facility Loading Limit for applicable distribution facilities in the “Planning Assumptions_Feeder” and “Planning Assumptions_DistSub” sheets

SCE can perform 15/15 Rule analysis on distribution circuits contained in SCE’s GNA and DUPR. However, SCE’s systems are not yet set up to perform 15/15 Rule analysis for substations. Therefore, in the GNA/DUPR, 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.

³⁴ 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.

12. Requirements Fulfillment

Table 8 provides a summary of the implementation of the reforms established in the 2020 May DIDF Ruling, the 2021 DIDF Ruling, the 2022 DIDF Ruling, the 2023 DIDF Ruling, and the 2024 DIDF Ruling reforms. Many of the 2020, 2021, and 2022 reforms have been implemented, as was discussed in SCE's 2020, 2021, and 2022 GNA/DDOR Narrative and are therefore not referenced in Table 8 or in this narrative. The remaining reforms from the 2020-2022 May DIDF Rulings, as well as the new reforms from the 2023 and 2024 DIDF Rulings are discussed below. For all the requirements that are no longer applicable due to the changes directed by the Decision, SCE has added language to this effect for this year, and these items will be removed from this table in future filings.

TABLE 8: SUMMARY OF THE RECENT RULING REFORM IMPLEMENTATIONS

No.	Reforms	Fulfillment Description
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 years pursuant to D.18-02-004, Ordering Paragraph 2.dd.	SCE has provided this report with its 2025 GNA/DDOR in Attachment G.
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, November 22, 2022, April 15, 2023, November 15, 2023, and May 15, 2024. This is no longer applicable due to the cancellation of the solicitation process.
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 August 30, 2025. Beginning in 2026, the DDOR layer will be renamed the DUPR layer.
1 (2022)	Delay the due date for the annual IE Report to mid-March	This is no longer applicable due to the cancellation of the solicitation process.
2 (2022)	Require thorough details on the interconnection process, including timelines, to improve transparency and decrease the associated barrier to submitting successful projects	This is no longer applicable due to the cancellation of the solicitation process.
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-	No longer applicable due to off-ramping of the Standard-Offer-Contract Pilot.

	Contract solicitation launches, the same 75-day minimum solicitation window should apply. Utilities may use a longer solicitation window.	
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.	No longer applicable due to off-ramping of the Partnership Pilot.
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.	No longer applicable due to off-ramping of the Standard-Offer-Contract and Partnership Pilots.
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 collaborate with the CEC and 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.	SCE's implementation of this reform is explained in Section 5 and provided in the Known Load Projects report in Attachment F.
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 DIDF cycle. Given the experience of the 2021-2022 DIDF cycle, it is reasonable to grant an extension to file the required line section data. Accordingly, if necessary, Utilities may supplement their GNA/DDOR	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

	filings with line section data and the associated analyses no later than October 15, 2022.	developed this capability, SCE will continue to perform and document circuit level analyses for the GNA and DDOR.
1 (2023)	In order to make them part of the proceeding record, utilities shall be responsible for filing IE and IPE reports with the Commission and serving the reports to the service list.	SCE has and will continue to file these reports when they become available each year.
2 (2023)	The Commission has stated that the purpose of the guardrail or off-ramp provision for pilots is to determine whether the pilot should be modified or terminated and also to ensure protection of ratepayer funds. To ensure protection of ratepayer funds, the Standard-Offer-Contract pilot should not be continued, and no further solicitations should occur.	This is no longer applicable due to the cancellation of the SOC pilot.
3 (2023)	The Ruling found that sufficient data to track known loads year over year is needed to understand whether the known loads materialize and why types of customer requests lead to known loads. To accomplish this, the initial in-service date initially requested by the customer, actual load amount, actual service date, and the annual amounts of service requested are important to track. Utilities shall jointly develop a uniform list of type of customer and customer load categories and include the data in the report."	SCE's response to this requirement can be found in Section 5 of this document.
4 (2023)	Given the complexity of the tracking data submittals and the fact that the three Utilities report data differently because of differences in their business processes and IT systems, Utilities are instructed to provide a narrative summary report that includes metrics calculated by Utilities based upon utility tracking data and the implications of those metrics; this would be in addition to the tracking data.	SCE has provided extensive additional discussion in Section 5 this year to meet the requirement for a narrative summary report.
5 (2023)	Pursuant to the May 11, 2020 Ruling, Utilities are required to identify all distributed energy resources solutions planned for investor-owned utility ownership or otherwise planned for procurement but not prioritized as deferral opportunities, and are required to include an indicator that the project is excluded from prioritization. The 2023 DIDF Ruling requires an additional spreadsheet that removes projects otherwise planned for procurement or identified for	This is no longer applicable due to the cancellation of the solicitation process.

	utility ownership. The identification of these projects, which are not likely to be recommended for deferral, will improve the Candidate Deferral Opportunity prioritization.	
2 (2024)	The amendments to the 2024-2025 Distribution Deferral Framework cycle set forth in Section 3.2 of the Ruling are adopted in regard to Known Loads and Pending Loads.	The comparison on this cycle's known loads and the previous cycles known loads with metrics of MW per year and counts by type and category. Additionally, the list of the portion of pending loads associated with Pending Loads are filed separately in Attachment E, as they are not included in the metrics per the ruling.
3 (2024)	The Partnership Pilot is discontinued. No further solicitations shall be conducted.	This is no longer applicable due to the cancellation of the solicitation process.
4 (2024)	The updated Distribution Planning Advisory Group schedule for the 2024-2025 Distribution Deferral Framework cycle is adopted.	SCE includes an updated schedule in this document.
D.24-10-030 (Oct. 23, 2024)	Referencing the 2024 ALJ Ruling that temporarily removed these, Section 2.2 of the Decision sets forth that the following sections are no longer required: • Candidate Deferral Opportunities • Prioritization Metric Workbook • LNBA Workbooks for Candidate Deferral Opportunities • LNBA Workbooks for Planned Investments • Forecast Questionnaire	SCE has removed these sections from the report.

Table 9 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 9: GNA REPORT COLUMN REQUIREMENT FULFILLMENT AND DESCRIPTION

Attribute/Field	Brief Description	Requirement
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 DUPR.	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 ³⁵ : - 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 DUPR 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.
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 DUPR	The 2019 May Ruling: - Attachment A: GNA Datasets 1.c. - Attachment A: All Other Grid Service Needs 2.a.

³⁵ 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.

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.
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. ³⁶
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.
TE (MW)	Represents the cumulative demand of the additional pending EV load that coincides with the anticipated time of the facility's peak.	Added to facilitate use in GNA as it aligns with current and future planning processes
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. ³⁷

³⁶ 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>).

³⁷ *Ibid.*

Table 10 provides a summary of all columns present in the DUPR. The table lists the attribute/field name, a brief description of the attribute/field, and the regulatory requirements for that attribute/field.

TABLE 10: DUPR 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 the Planning Assumptions sheets, DUPR and Project Execution (PE) Table.	The 2019 May Ruling: Attachment A: Project Specific DUPR data-Planned Investments 1.a. The 2020 May Ruling: Reform #18

	maintain safety and reliability.	
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.	
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.	SCE has removed these sections from the report.
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

Attachment B

IEPR Scenario Approval for 2025 GNA/DUPR prep (R.21-06-017)

From: JohnCortez
Sent: Wednesday, July 31, 2024 4:36 PM
Cc: JohnCortez
Subject: (External):High DER: Approval of IEPR Forecast Elements for 2024-2025 DPP Cycle (R.21-06-017)
Attachments: 6-21-24_PGE Joint IOU Request for Approval of 2024 IEPR Forecast Elements.pdf

 **CAUTION: This is an external email. Be careful when opening links or attachments**

This message was received from outside Edison.

Report Suspicious

To High DER Grid Planning Proceeding Service List (R.21-06-017)

Joint IOUs,

Your request (attached) for Integrated Energy Policy Report (IEPR) forecast elements to use for 2024-2025 Distribution Planning Process (DPP) cycle is approved.

John Cortez

Regulatory Analyst | Grid Planning, Energy Storage and Non-Wires Alternatives
California Public Utilities Commission | Energy Division
john.cortez@cpuc.ca.gov | 916-823-4762

June 21, 2024

VIA ELECTRONIC MAIL

Simon Baker
Director of Distributed Energy Resources,
Natural Gas & Retail Rates

California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

**SUBJECT: JOINT IOU REQUEST FOR ENERGY DIVISION APPROVAL
OF IEPR FORECAST ELEMENTS FOR 2024-2025
DISTRIBUTION PLANNING PROCESS CYCLE**

Dear Mr. Baker:

INTRODUCTION

California continues to anticipate accelerated electric load growth stemming from state- and local-level policies involving climate change and air quality. Load growth forecasts that incorporate the predicted impacts of the policies on electrical demand are integral to ensuring electrical distribution and transmission needs are identified and infrastructure is in place and ready to accommodate this growth.

Pacific Gas and Electric Company (PG&E), San Diego Gas & Electric Company (SDG&E) and Southern California Edison Company (SCE) (collectively, the Joint Utilities) hereby submit a request for Energy Division Approval of IEPR forecast elements for the utilities' respective 2024 -2025 DPP cycles. The May 11, 2020, ALJ ruling in the Distribution Resources Plans (DRP) proceeding (R.14-08-013) requires Energy Division staff approval of CEC-produced Integrated Energy Policy Report (IEPR) datasets for use in developing the IOUs' Grid Needs Assessment (GNA) report and Distribution Deferral Opportunity Report (DDOR).¹

The results of each utility's 2024 -2025 DPP cycle will be documented in each utility's

¹ "The same IEPR datasets shall be used by all three IOUs in the preparation of their GNA/DDORs. The IOUs shall meet and confer to establish which IEPR datasets are used for forecasting and disaggregation and present a listing of the selected datasets to Energy Division for approval. In all cases, IEPR datasets shall be used where feasible for disaggregation and forecasting and the IOUs shall clearly state in the GNA/DDORs which datasets were used, including whether the draft or updated IEPR datasets." May 11, 2020 ALJ Ruling, Attachment A, Reform #3.

2025 GNA report/DDOR currently scheduled for publication on August 15, 2025. Absent Commission direction to pause or terminate the Request for Offer (RFO) competitive solicitation process and/or to off-ramp the Partnership Pilot prior to the start of cycle 4, subsequent distribution deferral activities will be initiated in the fall of 2025 (collectively, the 2024-2025 DPP and Distribution Investment Deferral Framework (DIDF) cycles).

REQUEST FOR APPROVAL

The Joint Utilities hereby request Energy Division staff approval for all 2023 IEPR load forecast elements set forth in Table A below, and detailed by the CEC in Table 7 of their Adopted 2023 IEPR.² Table 7 lists “IOU distribution system planning” as an example use case for the Local Reliability Scenario³, thus the Joint IOUs are proposing it for use in the 2024-2025 DPP cycle.

At the planned June 28th, 2024, Distribution Forecast Working Group (“DFWG”) stakeholder workshop, the Joint Utilities will present for discussion and feedback the forecast elements outlined in the table below.

Table A: Proposed Forecast Scenario

		2024 -2025 DPP Cycle (2025 GNA)		
		SCE	PG&E	SDG&E
CEC-Adopted IEPR Vintage:		2023 IEPR Local Reliability Scenario	2023 IEPR Local Reliability Scenario	2023 IEPR Local Reliability Scenario
Forecast Elements	Economic, Demographic, and Price	Baseline	Baseline	Baseline
	Additional Achievable Energy Efficiency (AAEE)	Scenario 2	Scenario 2	Scenario 2
	Additional Achievable Fuel Substitution (AAFS) ⁴	Scenario 4	Scenario 4	Scenario 4
	Additional Achievable Transportation Electrification (AATE)	Scenario 3	Scenario 3	Scenario 3

² California Energy Commission, *Adopted 2023 Integrated Energy Policy Report with Errata*, February 14, 2024, p. 108

³ “The planning forecast is used for electricity system-level planning activities, including resource adequacy and integrated resource planning, and assumes “mid-level” impacts from AAEE, AAFS, and AATE. The local reliability scenario is used for electricity planning with more granular geography, such as the distribution and transmission planning process. The local reliability scenario assumes less energy efficiency and more fuel substitution, resulting in higher demand than the planning forecast, and is typically used for planning processes with more geographical granularity due to the increased uncertainty as load is disaggregated.” Ibid

⁴ Incorporates CEC announced correction to the 2023 IEPR AAFS Hourly Results. This correction was discussed at the June 12, 2024 Demand Analysis Working Group (DAWG) Meeting.

In connection with the Track 1 Staff Proposal released in the High DER proceeding, Energy Division requested that the utilities voluntarily implement in their respective 2024-2025 DPP cycles, certain feasible elements of the following recommendations as permitted under current requirements and prior to formal Commission action on these elements:

1. Section 3.2.1: Allow Utilities to use Bottom-Up, Known Load Data to Determine Load Growth
2. Section 3.2.7: Utilities to Create a 'Pending Loads' Category in DPP
3. Section 3.2.5: Utilities to Improve Forecasting and Disaggregation with Scenario Planning

Each of the IOUs has agreed to implement some of these elements as described further below.

PG&E:

PG&E's GNA will include bank and feeder information for an "Alternative Forecast Scenario." PG&E will include Pending Loads as a "proof of concept" in this Alternative Forecast Scenario, but not in the Proposed Forecast Scenario in the Table A above. Deficiencies driven by pending loads will only be identified at the bank and feeder outlet level; load flow and line section analysis will not be performed for this alternative scenario. PG&E will continue to consider Bottom-Up, Known Load Data in the Proposed Forecast Scenario as it has in past DPP cycles. For the Alternative Forecast Scenario, PG&E will consider Bottom-Up, Known Load Data in the near term, and net it from the long term rather than the medium term of the Alternative Forecast Scenario. While PG&E will not fully implement Scenario Planning as PG&E will not develop an alternative distribution plan, in cases where the Proposed Forecast Scenario requires a project and the Alternative Forecast Scenario indicates the need for a larger project in the same area, PG&E may choose to pursue a larger project.

SCE:

SCE intends to incorporate Pending Loads with the following categories: Truckstop electrification, Port of Long Beach electrification plan, EV vendor forecast, Transit Bus Fleets electrification plans, CARB ACF fleet electrification plans based on Bottom-Up assessment, Bottom-up EV Transportation Refrigeration Unit (TRU) forecast.

SDG&E:

As suggested by the Energy Division, SDG&E plans to treat its localized forecasts of TE growth as Pending Loads. SDG&E may use these Pending Loads to supplement its disaggregation of the 2023 CEC IEPR AATE component in the 2024 – 2025 DPP cycle.

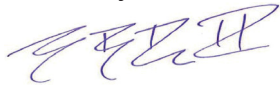
CONCLUSION

As the Commission is aware, timely completion of the IOUs' 2024 -2025 DPP cycles requires that the Energy Division provide load forecast approval no later than August 1, 2024.

Subject to any adjustments that may arise from the June 28, 2024 DFWG stakeholder workshop, the Joint Utilities seek timely approval of the proposed demand forecast elements for the 2024-2025 DPP cycle as set forth in the Request section above and with the August 1 timeframe in mind.

Please let us know if you have any questions regarding the Joint Utilities' proposed forecast elements for the 2024 -2025 DPP cycle (which will be documented in the August 15, 2025 GNA report and DDOR).

Sincerely,



Sidney Bob Dietz II

cc: Kelly A. Hymes, Administrative Law Judge
Manisha Lakhanpal, Administrative Law Judge
Gabriel Petlin, Energy Division
Tyler Nam, Energy Division
Service List R.21-06-017

Attachment C

2025 Grid Needs Assessment Redacted Dataset

(PUBLIC VERSION)

GNA ID	Substation / Subtransmission Line	Circuit	Distribution Service Required	Primary Driver of Grid Need	Operating Date	Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹				
						Element	Rating	Units	2025 ^a	2026 ^a	2027 ^a	2028 ^a	2029 ^a	2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b
GNA_2025_1	Barre 220/66 (S)	null	Capacity	Demand Growth	6/1/2026	Subtrans. Substation	105.00 MW		9.17	9.06	10.04	11.24	12.31	8.73%	8.63%	9.56%	10.70%	11.72%
GNA_2025_2	Bradbury-Hopeful segment of Rio Hondo-Arcadia-Bradbury-Hopeful 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	124.00 MW		1.90	4.00	4.80	4.30	4.10	1.53%	3.23%	3.87%	3.47%	3.31%
GNA_2025_3	Chino-Ganesha-Plastic 66 kV	null	Reliability, Capacity	Demand Growth	12/31/2026	Subtransmission Line	124.00 MW		0.00	0.00	0.00	0.00	2.50	0.00%	0.00%	0.00%	0.00%	2.02%
GNA_2025_4	Del Sur Leg of Del Sur-Lancaster-Riteaid 66 kV	null	Capacity	Demand Growth	6/1/2026	Subtransmission Line	61.70 MW		14.10	22.90	25.70	28.70	32.30	22.85%	37.12%	41.65%	46.52%	52.35%
GNA_2025_5	Del Sur Leg of Del Sur-Lancaster-Riteaid 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2026	Subtransmission Line	83.40 MW		6.50	19.70	26.80	30.80	38.70	7.79%	23.62%	32.13%	36.93%	46.40%
GNA_2025_6	Ellis-Kiwi 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2029	Subtransmission Line	137.00 MW		0.00	1.55	6.35	10.74	15.54	0.00%	1.13%	4.64%	7.84%	11.34%
GNA_2025_7	Ganesha-Trophy 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2028	Subtransmission Line	137.00 MW		0.00	0.00	0.00	0.80	1.20	0.00%	0.00%	0.00%	0.58%	0.88%
GNA_2025_8	La Cienega-El Nido-Tahiti 66 kV	null	Capacity	Demand Growth	6/1/2025	Subtransmission Line	57.00 MW		5.50	9.60	11.30	16.60	17.00	9.65%	16.84%	19.82%	29.12%	29.82%
GNA_2025_9	La Cienega-El Nido-Tahiti 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2025	Subtransmission Line	89.00 MW		0.00	0.00	1.30	9.90	12.60	0.00%	0.00%	1.46%	11.12%	14.16%
GNA_2025_10	Mesa-Laguna Belt-Narrows 66 kV	null	Reliability, Capacity	Demand Growth	12/31/2025	Subtransmission Line	93.00 MW		9.30	10.40	9.90	11.40	11.20	10.00%	11.18%	10.65%	12.26%	12.04%
GNA_2025_11	Mesa-Narrows 66 kV	null	Reliability, Capacity	Demand Growth	3/1/2027	Subtransmission Line	93.00 MW		9.90	11.10	10.50	12.00	11.80	10.65%	11.94%	11.29%	12.90%	12.69%
GNA_2025_12	Mira Loma-Archibald	null	Capacity	Demand Growth	6/1/2026	Subtrans. Substation	125.00 MW		12.50	21.30	24.40	23.90	20.90	10.00%	17.04%	19.52%	19.12%	16.72%
GNA_2025_13	Mira Loma-Archibald	null	Reliability, Capacity	Demand Growth	6/1/2026	Subtrans. Substation	168.00 MW		31.10	44.00	48.70	47.20	42.70	18.51%	26.19%	28.99%	28.10%	25.42%
GNA_2025_14	Mira Loma-Archibald-Bain-Metalcan	null	Capacity	Demand Growth	6/1/2026	Subtrans. Substation	125.00 MW		0.00	5.50	8.90	14.00	12.30	0.00%	4.40%	7.12%	11.20%	9.84%
GNA_2025_15	Mira Loma-Archibald-Bain-Metalcan	null	Reliability, Capacity	Demand Growth	6/1/2026	Subtrans. Substation	168.00 MW		42.70	54.10	59.50	64.20	60.50	25.42%	32.20%	35.42%	38.21%	36.01%
GNA_2025_16	Oasis-Palmdale-Quartz Hill 66 kV	null	Capacity	Demand Growth	6/1/2025	Subtransmission Line	105.00 MW		0.00	4.90	7.10	9.70	15.80	0.00%	4.67%	6.76%	9.24%	15.05%
GNA_2025_17	Oasis-Palmdale-Quartz Hill 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2025	Subtransmission Line	141.80 MW		3.00	21.30	27.80	31.80	44.40	2.12%	15.02%	19.61%	22.43%	31.31%
GNA_2025_18	Pitchgen Leg of Saugus-Colossus-Lockheed-Pitchgen 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2026	Subtransmission Line	83.00 MW		0.00	1.00	3.50	4.80	6.70	0.00%	1.20%	4.22%	5.78%	8.07%
GNA_2025_19	Rector-Riverway #2 66 kV	null	Capacity	Demand Growth	6/1/2028	Subtransmission Line	105.00 MW		0.00	0.42	0.00	0.11	1.89	0.00%	0.40%	0.00%	0.10%	1.80%
GNA_2025_20	Redlands-Tennessee-Yucaipa 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	93.00 MW		4.70	8.00	19.13	27.11	33.09	5.05%	8.60%	20.57%	29.15%	35.58%
GNA_2025_21	Rio Hondo segment of Rio Hondo-Arcadia-Bradbury-Hopeful 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	142.00 MW		10.20	12.60	14.90	14.20	13.90	7.18%	8.87%	10.49%	10.00%	9.79%
GNA_2025_22	Rio Hondo-Datton-Liquid 66 kV	null	Capacity	Demand Growth	6/1/2025	Subtransmission Line	84.00 MW		4.70	5.60	15.50	22.20	22.30	5.60%	6.67%	18.45%	26.43%	26.55%
GNA_2025_23	Rio Hondo-Datton-Liquid 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2025	Subtransmission Line	116.00 MW		0.00	2.10	14.20	14.80	15.10	0.00%	1.81%	12.24%	12.76%	13.02%
GNA_2025_24	San Bernardino-Cardiff 66 kV	null	Capacity	Demand Growth	6/1/2027	Subtransmission Line	84.00 MW		0.00	14.60	25.60	25.70	29.00	0.00%	17.38%	30.48%	30.60%	34.52%
GNA_2025_25	San Bernardino-Cardiff 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	116.00 MW		0.00	22.00	37.50	37.70	42.30	0.00%	18.97%	32.33%	32.50%	36.47%
GNA_2025_26	San Bernardino-Cardiff-Colton 66 kV	null	Capacity	Demand Growth	6/1/2027	Subtransmission Line	62.00 MW		0.00	7.60	15.30	15.40	21.60	0.00%	12.26%	24.68%	24.84%	34.84%
GNA_2025_27	San Bernardino-Cardiff-Colton 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	83.00 MW		8.10	29.10	66.10	66.70	78.10	9.76%	35.06%	79.64%	80.36%	94.10%
GNA_2025_28	San Bernardino-Redlands 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	137.00 MW		0.00	0.00	13.50	13.80	9.10	0.00%	0.00%	9.85%	10.07%	6.64%
GNA_2025_29	San Bernardino-Redlands-Tennessee 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	137.00 MW		0.00	3.60	13.00	17.70	17.60	0.00%	2.63%	9.49%	12.92%	12.85%
GNA_2025_30	Santa Clara - Colonia 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2026	Subtransmission Line	83.00 MW		0.00	4.80	5.20	6.50	7.20	0.00%	5.78%	6.27%	7.83%	8.67%
GNA_2025_31	Santiago-Irvine No 2 66 kV	null	Capacity	Demand Growth	6/1/2026	Subtransmission Line	125.00 MW		0.00	6.13	11.38	11.88	12.38	0.00%	4.90%	9.10%	9.50%	9.90%
GNA_2025_32	Santiago-Irvine No 2 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2026	Subtransmission Line	168.00 MW		1.68	11.76	18.98	19.66	20.33	1.00%	7.00%	11.30%	11.70%	12.10%
GNA_2025_33	Saugus - Haskell 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2029	Subtransmission Line	124.00 MW		0.00	0.00	0.00	0.00	1.20	0.00%	0.00%	0.00%	0.00%	0.97%
GNA_2025_34	Saugus-Haskell 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	124.00 MW		0.00	0.00	0.00	0.00	1.20	0.00%	0.00%	0.00%	0.00%	0.97%
GNA_2025_35	Saugus-Newhall No. 1 and No. 2 66 kV	null	Capacity	Demand Growth	6/1/2027	Subtransmission Line	84.00 MW		0.00	0.00	1.50	3.60	1.90	0.00%	0.00%	1.79%	4.29%	2.26%
GNA_2025_36	Saugus-Newhall No. 1 and No. 2 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	116.00 MW		1.70	7.00	11.30	14.40	11.90	1.47%	6.03%	9.74%	12.41%	10.26%
GNA_2025_37	Sullivan-Vera 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2029	Subtransmission Line	137.00 MW		3.19	7.44	12.79	17.32	22.53	2.33%	5.43%	9.34%	12.64%	16.45%
GNA_2025_38	Valley 115kV North Switchrack	null	Reactive Power	Demand Growth	6/1/2028	Subtrans. Substation	14.40 MVAR		0.00	0.00	0.00	38.40	59.30	0.00%	0.00%	0.00%	266.67%	411.81%
GNA_2025_39	Valley-Alessandro-Bunker 115 kV	null	Reliability, Capacity	Demand Growth	6/1/2029	Subtransmission Line	247.00 MW		0.00	0.00	1.98	0.00	9.39	0.00%	0.00%	0.80%	0.00%	3.80%
GNA_2025_40	Valley-Cajalco-Karma 115 kV	null	Reliability, Capacity	Demand Growth	6/1/2029	Subtransmission Line	240.00 MW		0.00	0.00	17.02	12.40	30.39	0.00%	0.00%	7.09%	5.17%	12.66%
GNA_2025_41	Vista-Bloomington-Colton-Fibre 66 kV	null	Capacity	Demand Growth	6/1/2027	Subtransmission Line	62.00 MW		0.00	0.00	2.42	3.10	3.84	0.00%	0.00%	3.90%	5.00%	6.19%
GNA_2025_42	Vista-Bloomington-Colton-Fibre 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	83.00 MW		0.00	13.69	22.82	23.38	31.71	0.00%	16.49%	27.49%	28.17%	38.20%
GNA_2025_43	Vista-Bloomington-Glen Avon 66 kV	null	Capacity	Demand Growth	6/1/2027	Subtransmission Line	46.00 MW		4.70	18.20	23.20	24.80	26.10	10.22%	39.57%	50.43%	53.91%	56.74%
GNA_2025_44	Vista-Bloomington-Glen Avon 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	62.00 MW		10.90	39.20	46.70	50.60	55.00	17.58%	63.23%	75.32%	81.61%	88.71%
GNA_2025_45	Vista-Calectric 115 kV	null	Capacity	Demand Growth	6/1/2027	Subtransmission Line	175.00 MW		26.25	31.85	26.25	27.30	25.20	15.00%	18.20%	15.00%	15.60%	14.40%
GNA_2025_46	Vista-Calectric 115 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	237.00 MW		1.90	12.09	2.37	7.58	2.13	0.80%	5.10%	1.00%	3.20%	0.90%
GNA_2025_47	Walnut-Cortez-Merced #1	null	Capacity	Demand Growth	6/1/2025	Subtrans. Substation	57.00 MW		20.30	21.40	22.70	19.10	19.60	35.61%	37.54%	39.82%	33.51%	34.39%
GNA_2025_48	Walnut-Cortez-Merced #2	null	Capacity	Demand Growth	6/1/2025	Subtrans. Substation	57.00 MW		20.30	21.40	22.70	19.10	19.60	35.61%	37.54%	39.82%	33.51%	34.39%
GNA_2025_49	Walnut-Nogales-Railroad No. 1 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	83.00 MW		4.40	8.10	7.00	15.60	16.20	5.30%	9.76%	8.43%	18.80%	19.52%
GNA_2025_50	Walnut-Nogales-Railroad No. 2 66 kV	null	Reliability, Capacity	Demand Growth	6/1/2027	Subtransmission Line	83.00 MW		4.90	8.70	7.50	16.30	16.80	5.90%	10.48%	9.04%	19.64%	20.24%
GNA_2025_51	Stadium 66/12 (D)	Roxanne	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	██ MW		0.00	0.20	0.20	0.00	0.00					
GNA_2025_52	Anaverde 66/12 (D)	Leona	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder	0.60 MVAR		0.58	0.59	0.58	0.59	0.59	96.67%	98.33%	96.67%	98.33%	98.33%
GNA_2025_53	Anaverde 66/12 (D)	Subida	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	8.89 MW		2.41	2.07	2.63	2.67	2.72	25.08%	23.18%	29.45%	29.97%	30.60%
GNA_2025_54	Antelope 220/66 (S)	null	Reactive Power	Demand Growth	6/1/2029	Subtrans. Substation	14.40 MVAR		0.00	19.90	69.00	83.60	95.20	0.00%	138.19%	479.17%	580.56%	661.11%
GNA_2025_55	Lancaster 66/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	124.32 MW		2.50	9.69	14.50	13.98	15.67	2.01%	7.79%	11.66%	11.25%	12.60%
GNA_2025_56	Lancaster 66/12 (D)	Oban	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	██ MW		0.74	6.66	16.50	23.94	26.98					
GNA_2025_57	Lancaster 66/12 (D)	Target	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	██ MW		0.00	6.17	5.80	5.76	5.72					
GNA_2025_58	Little Rock 66/12 (D)	Calli Valli	Voltage	Demand Growth	6/1/2026	Distribution Feeder	██ Vpu		0.94	0.94	0.94	0.94	0.94					
GNA_2025_59	Little Rock 66/12 (D)	Sun Village	Capacity	Demand Growth	6/1/2026	Distribution Feeder	██ MW		0.00	1.52	1.46	2.30	3.41					
GNA_2025_60	Neenach 66/12 (D)	null	Reliability, Voltage	Demand Growth	12/31/2025	Subtrans. Substation	██ Vpu		0.97	0.96	0.91	0.91	0.91					
GNA_2025_61	Oasis 66/12 (D)	Beone	Capacity (UCT)	Demand Growth	7/1/2026	Distribution Feeder	██ MW		0.59	0.98	1.83	1.52	1.17					
GNA_2025_62	Oasis 66/12 (D)	Lupine	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder	██ MW		0.00	0.00	0.02	0.00	0.00					
GNA_2025_63	Oasis 66/12 (D)	Stealth	Capacity (UCT)	Demand Growth	7/1/2026	Distribution Feeder	██ MW		1.52	3.07	4.41	8.04	8.04					
GNA_2025_64	Palmdale 66/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	130.42 MW		0.00	0.48	0.91	1.52	2.33	0.00%	0.37%	0.70%	1.17%	1.79%
GNA_2025_65	Quartz Hill 66/12 (D)	null	Capacity	Demand Growth	6/1/2025	Distribution Substation	65.17 MW		22.62	24.36	26.46	27.50	28.76	34.71%				

GNA ID	Substation / Subtransmission Line	Circuit	Distribution Service Required	Primary Driver of Grid Need	Operating Date	Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹				
						Element	Rating	Units	2025 ^A	2026 ^A	2027 ^A	2028 ^A	2029 ^A	2025 ^B	2026 ^B	2027 ^B	2028 ^B	2029 ^B
GNA_2025_76	Ely 66/12 (D)	Haiti	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.83	0.78	0.74	0.78	0.76					
GNA_2025_77	Ely 66/12 (D)	Jamaica	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	9.00	MW	0.37	0.33	0.30	0.46	0.50	4.09%	3.64%	3.30%	4.61%	5.56%
GNA_2025_78	Ely 66/12 (D)	Jamaica	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder	0.60	MVAR	0.57	0.56	0.55	0.82	0.82	95.00%	93.33%	91.67%	136.67%	136.67%
GNA_2025_79	Ely 66/12 (D)	Panama	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	9.24	MW	0.91	0.91	0.93	1.09	1.15	9.78%	9.75%	9.95%	11.80%	12.45%
GNA_2025_80	Ely 66/12 (D)	Rytski	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	8.43	MW	0.00	0.00	0.00	0.59	0.57	0.00%	0.00%	0.00%	6.50%	6.28%
GNA_2025_81	Gilbert 66/12 (D)	Rough	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	1.43	1.41	1.43	1.46	1.43					
GNA_2025_82	Shawnee 66/12 (D)	null	Capacity	Demand Growth	6/1/2027	Distribution Substation	57.91	MW	5.93	5.65	5.76	5.93	6.17	10.24%	9.71%	9.90%	10.19%	10.61%
GNA_2025_83	Trask 66/12 (D)	Jerome	Capacity (UCT)	Demand Growth	9/30/2027	Distribution Feeder		MW	0.07	0.72	0.67	0.63	0.59					
GNA_2025_84	Trask 66/12 (D)	Joplin	Capacity (UCT)	Demand Growth	9/30/2027	Distribution Feeder	10.61	MW	0.00	0.00	0.00	0.00	0.02	0.00%	0.00%	0.00%	0.00%	0.18%
GNA_2025_85	Blythe 33/33 (D)	null	Capacity	Demand Growth	6/1/2026	Distribution Substation	69.94	MW	42.88	105.40	132.44	175.80	176.04	61.31%	150.70%	189.36%	251.36%	251.70%
GNA_2025_86	Pebbly Beach 2.4/12 (D)	null	Reliability, Capacity	Demand Growth	12/31/2025	Distribution Substation	3.75	MW	1.75	1.75	1.75	1.75	1.75	46.67%	46.67%	46.67%	46.67%	46.67%
GNA_2025_87	Downey 12/4.16 (D)	Pangborn	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.30	MW	0.10	0.05	0.05	0.05	0.10	4.35%	2.17%	2.17%	2.17%	4.35%
GNA_2025_88	Floraday 12/4.16 (D)	Jessup	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.90	MW	2.80	2.80	2.80	2.80	2.80	96.55%	96.55%	96.55%	96.55%	96.55%
GNA_2025_89	Gallatin 66/12 (D)	Gaspar	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	0.70	0.80	0.80	0.90	1.00					
GNA_2025_90	Gallatin 66/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	53.26	MW	11.04	11.54	12.64	13.64	14.34	20.73%	21.67%	23.73%	25.61%	26.92%
GNA_2025_91	Imperial 66/12 (D)	Alameda	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	7.00	MW	0.00	0.10	0.00	0.20	0.20	0.00%	1.20%	0.00%	2.44%	2.41%
GNA_2025_92	Imperial 66/12 (D)	Blaine	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.20	0.50	0.60	0.60	0.60					
GNA_2025_93	Imperial 66/12 (D)	Fleming	Capacity	Demand Growth	6/1/2025	Distribution Feeder		MW	0.10	1.40	1.40	1.40	1.30					
GNA_2025_94	Imperial 66/12 (D)	Laredo	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.00	0.90	0.70	0.70	0.80					
GNA_2025_95	Imperial 66/12 (D)	Luxor	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	3.50	4.10	3.90	3.80	3.70					
GNA_2025_96	Imperial 66/4.16 (D)	Bacon	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.93	MW	0.37	0.37	0.37	0.37	0.47	12.63%	12.63%	12.63%	12.63%	16.04%
GNA_2025_97	Imperial 66/4.16 (D)	Bacon	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	2.30	MW	0.00	0.00	0.10	0.00	0.00	0.00%	0.00%	4.35%	0.00%	0.00%
GNA_2025_98	Imperial 66/4.16 (D)	Gardendale	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	2.50	MW	0.20	0.30	0.20	0.40	0.40	7.69%	12.00%	7.69%	16.00%	16.00%
GNA_2025_99	Passons 66/12 (D)	Alburtis	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	9.54	MW	1.07	0.00	0.30	0.83	1.20	10.94%	0.00%	3.07%	8.49%	12.27%
GNA_2025_100	Passons 66/12 (D)	Millergrove	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	9.37	MW	2.07	2.11	2.20	2.26	2.33	22.09%	22.47%	23.48%	24.12%	24.87%
GNA_2025_101	Passons 66/12 (D)	Terradell	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	1.61	1.59	1.67	1.74	1.80	16.07%	15.87%	16.67%	17.37%	17.96%
GNA_2025_102	Passons 66/12 (D)	Vicki	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.98	0.96	1.67	1.72	1.78					
GNA_2025_103	Pioneer 12/4.16 (D)	Dohn	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.70	MW	0.60	0.70	0.70	0.70	0.80	22.22%	25.93%	25.93%	25.93%	29.63%
GNA_2025_104	Pioneer 66/12 (D)	Musket	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	0.44	0.54	0.54	0.64	0.64					
GNA_2025_105	Pioneer 66/12 (D)	Musket	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.93	0.00	0.00	0.00	0.00					
GNA_2025_106	Pioneer 66/12 (D)	Redskin	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	11.13	MW	0.00	0.00	0.00	0.02	0.11	0.00%	0.00%	0.00%	0.18%	0.98%
GNA_2025_107	Santa Fe Springs 66/12 (D)	Starbuck	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	3.13	3.11	3.04	0.22	0.17					
GNA_2025_108	Stewart 66/12 (D)	Clifford	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	0.27	0.26	0.26	0.27	0.27					
GNA_2025_109	Stewart 66/12 (D)	Donald	Capacity	Demand Growth	6/1/2025	Distribution Feeder		MW	1.17	1.13	1.11	1.09	1.07					
GNA_2025_110	Stewart 66/12 (D)	Jimmy	Capacity	Demand Growth	6/1/2025	Distribution Feeder		MW	6.37	2.80	2.76	2.74	2.72					
GNA_2025_111	Stewart 66/12 (D)	null	Capacity	Demand Growth	6/1/2026	Distribution Substation	77.80	MW	0.30	2.30	2.20	2.20	2.20	0.39%	2.96%	2.83%	2.83%	2.83%
GNA_2025_112	Chino_Sec_A 220/66 (S)	null	Reliability, Capacity	Demand Growth	12/31/2026	Subtrans. Substation	336.00	MW	100.40	98.70	111.50	116.10	113.60	29.88%	29.38%	33.18%	34.55%	33.81%
GNA_2025_113	Chino_Sec_C 220/66 (S)	null	Reliability, Capacity	Demand Growth	12/31/2026	Subtrans. Substation	336.00	MW	128.40	126.50	140.20	145.00	142.40	38.21%	37.65%	41.73%	43.15%	42.38%
GNA_2025_114	Firehouse 66/12 (D)	Dalmatian	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	1.67	1.61	1.57	1.52	1.48					
GNA_2025_115	Firehouse 66/12 (D)	Hose	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	4.14	4.08	4.08	4.04					
GNA_2025_116	Firehouse 66/12 (D)	Hose	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	2.24	3.28	0.37	0.33	0.28					
GNA_2025_117	Firehouse 66/12 (D)	Siren	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.30	0.43	0.46	0.63	0.67					
GNA_2025_118	Francis 66/12 (D)	Hazel	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	5.48	5.52	10.18	10.26	10.30					
GNA_2025_119	Francis 66/12 (D)	Kadota	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	6.22	7.78	7.92	7.86	6.04					
GNA_2025_120	Francis 66/12 (D)	Marbuck	Capacity	Demand Growth	6/1/2026	Distribution Feeder	11.96	MW	1.70	1.82	6.74	6.92	9.14	14.21%	15.22%	56.35%	57.86%	76.42%
GNA_2025_121	Kimball 66/12 (D)	Blackwidow	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	10.22	MW	0.41	0.67	0.78	0.87	0.96	3.89%	6.47%	7.60%	8.50%	9.39%
GNA_2025_122	Kimball 66/12 (D)	Fortress	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	1.13	1.43	1.54	1.65	1.65					
GNA_2025_123	Kimball 66/12 (D)	Kingcobra	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	7.98	MW	0.00	0.00	0.50	0.30	0.59	0.00%	0.00%	5.13%	3.09%	6.06%
GNA_2025_124	Kimball 66/12 (D)	Nish	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	10.76	MW	3.82	3.82	3.82	3.82	3.82	35.50%	35.50%	35.50%	35.50%	35.50%
GNA_2025_125	Kimball 66/12 (D)	Phantom	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	4.44	4.48	4.56	4.60	4.70					
GNA_2025_126	Kimball 66/12 (D)	Warhawk	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	6.52	MW	0.00	0.00	4.78	12.22	13.82	0.00%	0.00%	41.31%	105.89%	119.97%
GNA_2025_127	Ontario 12/4.16 (D)	Ostran	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.00	0.02	0.05	0.11					
GNA_2025_128	Pomona 12/4.16 (D)	Garey	Capacity	Demand Growth	6/1/2026	Distribution Feeder	1.65	MW	1.24	1.25	1.21	1.24	1.28	75.15%	75.76%	73.33%	75.15%	77.58%
GNA_2025_129	Cornuta 66/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	64.13	MW	8.70	7.20	7.20	5.70	6.20	13.57%	11.23%	11.23%	8.89%	9.67%
GNA_2025_130	Cypress 66/12 (D)	null	Capacity	Demand Growth	12/31/2027	Distribution Substation	74.52	MW	19.58	21.18	23.98	18.98	19.58	26.27%	28.42%	32.18%	25.47%	26.27%
GNA_2025_131	Del Amo 66/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	72.80	MW	0.00	0.00	0.00	11.26	16.78	0.00%	0.00%	0.00%	15.47%	23.05%
GNA_2025_132	Eric 66/12 (D)	null	Capacity	Demand Growth	12/31/2027	Distribution Substation	83.52	MW	11.15	11.22	12.28	15.50	15.59	13.35%	13.43%	14.70%	18.56%	18.67%
GNA_2025_133	Heartwell P.T. 12/4.16 (A)	Heartwell	Capacity	Demand Growth	6/1/2027	Distribution Feeder	1.10	MW	0.30	0.31	0.33	0.34	0.37	27.31%	28.22%	30.04%	30.95%	33.69%
GNA_2025_134	La Mirada 66/12 (D)	null	Capacity	Demand Growth	12/31/2025	Distribution Substation	51.74	MW	10.00	9.80	9.70	9.60	9.60	19.33%	18.94%	18.75%	18.55%	18.55%
GNA_2025_135	Somerset 66/12 (D)	Maplewood	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	0.91	0.89	2.04	2.04	2.04					
GNA_2025_136	Somerset 66/12 (D)	Marty	Capacity	Demand Growth	12/31/2021	Distribution Feeder	7.20	MW	0.30	0.20	0.20	0.20	0.20	4.17%	2.78%	2.78%	2.78%	2.78%
GNA_2025_137	Somerset 66/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	58.04	MW	0.98	3.65	5.09	2.91	2.91	1.69%	6.29%	8.77%	5.01%	5.01%
GNA_2025_138	Somerset 66/4.16 (D)	Iowa	Capacity	Demand Growth	6/1/2026	Distribution Feeder	2.93	MW	0.36	0.36	0.36	0.37	0.40	12.29%	12.29%	12.29%	12.63%	13.65%
GNA_2025_139	Woodruff 12/4.16 (D)	Dunrobin	Capacity	Demand Growth	6/1/2026	Distribution Feeder	2.93	MW	0.43	0.37	0.35	0.37	0.40	14.68%	12.63%	11.95%	12.63%	13.65%
GNA_2025_140	Garnet 115/33 (D)	Townhall	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.00	20.80	20.80	20.70					
GNA_2025_141	Hi Desert 115/33 (D)	Pinto	Voltage	Demand Growth	7/31/2022	Distribution Feeder		Vpu	0.93	0.93	0.93	0.93	0.93					
GNA_2025_142	Palm Canyon 33/12 (D)	Canina	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	1.86	1.92	2.00	2.08	2.22					
GNA_2025_143	Palm Canyon 33/12 (D)	Caribbean	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.00	0.44	0.52	0.60					
GNA_2025_144	Southridge P.T. 33/4.16 (A)	Southridge	Capacity	Demand Growth	6/1/2025	Distribution Feeder		MW	0.11	0.11	0.11	0.11	0.11					
GNA_2025_145	Yucca 115/12 (D)	Pionertown	Voltage	Demand Growth	12/31/2022	Distribution Feeder</												

GNA ID	Substation / Subtransmission Line	Circuit	Distribution Service Required	Primary Driver of Grid Need	Operating Date	Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹				
						Element	Rating	Units	2025 ^a	2026 ^a	2027 ^a	2028 ^a	2029 ^a	2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b
GNA_2025_151	El Casco 115/12 (D)	Ozark	Capacity	Demand Growth	6/1/2028	Distribution Feeder		MW	0.00	1.04	0.00	0.26	8.83					
GNA_2025_152	Maraschino 115/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	109.15	MW	0.00	0.00	0.00	1.72	9.89	0.00%	0.00%	0.00%	1.58%	9.06%
GNA_2025_153	El Nido 220/66 (S)	null	Reliability, Capacity	Demand Growth	12/31/2027	Subtrans. Substation	336.00	MW	0.00	0.00	0.00	72.00	76.00	0.00%	0.00%	0.00%	21.43%	22.62%
GNA_2025_154	El Nido 66/16 (D)	Grizzley	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	0.90	1.13	1.80	1.89	1.99					
GNA_2025_155	Inglewood 66/16 (D)	null	Capacity	Demand Growth	6/1/2028	Distribution Substation	66.12	MW	0.00	0.00	0.00	0.20	0.90	0.00%	0.00%	0.00%	0.30%	1.36%
GNA_2025_156	Lawndale 16/4.16 (D)	Shoup	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder	0.15	MVAR	0.69	0.72	0.75	0.78	0.04	460.00%	480.00%	500.00%	520.00%	26.67%
GNA_2025_157	Lennox 66/16 (D)	Ryan	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	1.30	1.50	0.70	1.00	0.00					
GNA_2025_158	Bayside 66/12 (D)	Catfish	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	0.39	0.39	0.39	0.00	0.00					
GNA_2025_159	Ellis 66/12 (D)	Abbot	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.00	0.00	0.00	0.54					
GNA_2025_160	Ellis 66/12 (D)	Darwin	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	1.61	1.37	1.13	0.87	0.00					
GNA_2025_161	Ellis 66/12 (D)	Ferree	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.15	1.09	3.34	1.02	1.26					
GNA_2025_162	Ellis 66/12 (D)	Langley	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	2.17	2.45	2.67	2.73	0.52					
GNA_2025_163	Ellis 66/12 (D)	Lyell	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	9.61	MW	0.52	0.33	0.15	0.17	0.00	5.26%	3.34%	1.52%	1.72%	0.00%
GNA_2025_164	Ellis 66/12 (D)	Morrison	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.22	0.35	0.48	0.41					
GNA_2025_165	Brookhurst 66/12 (D)	McKeever	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	2.20	2.22	2.28	2.35	2.50					
GNA_2025_166	Brookhurst 66/12 (D)	null	Capacity	Demand Growth	12/31/2028	Distribution Substation	52.00	MW	2.93	3.09	3.33	3.61	6.65	5.63%	5.94%	6.40%	6.94%	12.79%
GNA_2025_167	Gisler 66/12 (D)	Explorer	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder	7.91	MW	0.00	0.00	0.00	0.17	1.04	0.00%	0.00%	0.00%	1.56%	9.99%
GNA_2025_168	Gisler 66/12 (D)	null	Capacity	Demand Growth	12/31/2028	Distribution Substation	104.89	MW	0.00	3.17	4.87	2.35	4.76	0.00%	3.02%	4.64%	2.24%	4.54%
GNA_2025_169	Gisler 66/12 (D)	Skylab	Capacity	Demand Growth	6/1/2028	Distribution Feeder	11.96	MW	0.00	0.10	0.94	1.84	4.14	0.00%	0.84%	7.86%	15.38%	34.62%
GNA_2025_170	Gisler 66/12 (D)	Surveyor	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	0.00	0.00	0.00	0.00	0.11					
GNA_2025_171	Sullivan 66/12 (D)	Sugar	Capacity	Demand Growth	6/1/2026	Distribution Feeder	10.28	MW	0.48	0.52	0.57	0.63	0.72	4.67%	5.06%	5.54%	6.13%	7.00%
GNA_2025_172	Talbert 66/12 (D)	Parrot	Capacity (UCT)	Demand Growth	6/2/2025	Distribution Feeder	10.00	MW	0.78	1.02	0.93	0.83	0.72	7.57%	10.20%	9.28%	8.27%	7.14%
GNA_2025_173	Talbert 66/12 (D)	Pelican	Capacity (UCT)	Demand Growth	6/2/2025	Distribution Feeder		MW	0.00	0.28	0.15	0.09	0.00					
GNA_2025_174	Talbert 66/12 (D)	Pelican	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	0.91	0.88	0.85	0.82	0.79					
GNA_2025_175	Vera 66/12 (D)	Austin	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	4.41	7.78	0.00	0.00					
GNA_2025_176	Vera 66/12 (D)	Mercedes	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	11.20	MW	1.20	1.22	1.26	0.00	0.00	10.37%	10.54%	10.89%	0.00%	0.00%
GNA_2025_177	Vera 66/12 (D)	Packard	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	9.02	MW	0.02	0.20	0.24	0.04	0.11	0.22%	2.22%	2.66%	0.43%	1.19%
GNA_2025_178	Vera 66/12 (D)	Rambler	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.43	0.67	0.76	0.52	0.63					
GNA_2025_179	Alder 66/12 (D)	Augusta	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	10.62	15.96	24.12	18.31	18.37					
GNA_2025_180	Alder 66/12 (D)	Bolor	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder	9.80	MW	2.22	2.70	1.22	1.26	1.26	22.18%	27.55%	11.54%	11.92%	11.92%
GNA_2025_181	Alder 66/12 (D)	Wind Tunnel	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	1.96	4.44	4.40	4.40	4.34					
GNA_2025_182	Declez 66/12 (D)	Bamboo	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder		MW	0.00	0.00	2.24	3.33	4.28					
GNA_2025_183	Declez 66/12 (D)	Big Rigg	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	4.78	5.87	5.78	4.58	4.37					
GNA_2025_184	Declez 66/12 (D)	Dixon	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder	11.00	MW	12.00	17.81	23.98	25.80	12.71	105.36%	159.44%	218.00%	234.55%	113.28%
GNA_2025_185	Declez 66/12 (D)	Kaiser	Capacity	Demand Growth	6/1/2028	Distribution Feeder		MW	0.26	0.37	0.41	0.48	0.54					
GNA_2025_186	Declez 66/12 (D)	Kaiser	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	2.37	2.61	2.65	2.72	2.41					
GNA_2025_187	Declez 66/12 (D)	Marble	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder		MW	12.28	17.04	23.89	25.70	27.61					
GNA_2025_188	Declez 66/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	124.04	MW	29.80	42.30	60.00	61.80	46.70	24.02%	33.83%	47.98%	49.42%	32.07%
GNA_2025_189	Declez 66/12 (D)	Sanber	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder	10.80	MW	10.41	10.35	11.08	11.30	3.91	94.29%	93.75%	102.59%	104.63%	36.20%
GNA_2025_190	Declez 66/12 (D)	Speedway	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder		MW	0.48	1.85	3.37	4.11	4.93					
GNA_2025_191	Declez 66/12 (D)	Tokay	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder	10.70	MW	0.09	0.44	5.30	5.48	1.89	0.84%	4.11%	49.53%	51.21%	17.66%
GNA_2025_192	Declez 66/12 (D)	Tractor	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder		MW	0.00	0.00	0.35	1.04	1.85					
GNA_2025_193	Etiwanda 66/12 (D)	Benny	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder		MW	0.00	6.46	6.35	5.61	5.48					
GNA_2025_194	Etiwanda 66/12 (D)	Pryor	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	2.46	3.30	4.30	5.76	6.70					
GNA_2025_195	Etiwanda 66/12 (D)	Sellers	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	0.91	1.52	1.48	1.46	1.46					
GNA_2025_196	Falcon Ridge 66/12 (D)	Chevelle	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	2.43	2.26	2.11	1.93	1.72					
GNA_2025_197	Falcon Ridge 66/12 (D)	Fairlane	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	2.52	3.78	3.56	5.08	4.91					
GNA_2025_198	Falcon Ridge 66/12 (D)	Falcon Ridge - 8th Circuit	Capacity	Demand Growth	6/1/2028	Distribution Feeder	11.96	MW	0.00	0.00	0.00	0.57	0.57	0.00%	0.00%	0.00%	4.77%	4.77%
GNA_2025_199	Falcon Ridge 66/12 (D)	Impala	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder	10.37	MW	7.00	7.00	7.02	7.02	7.00	67.50%	67.50%	67.70%	67.70%	67.24%
GNA_2025_200	Falcon Ridge 66/12 (D)	null	Capacity	Demand Growth	6/1/2028	Distribution Substation	72.80	MW	0.00	0.00	8.90	36.30	3.80	0.00%	0.00%	12.23%	49.86%	3.62%
GNA_2025_201	Randall 66/12 (D)	Acosta	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	2.52	3.18	3.92	4.96	5.08					
GNA_2025_202	Randall 66/12 (D)	Colleen	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.00	1.37	1.39	1.41					
GNA_2025_203	Randall 66/12 (D)	Digby	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder	10.61	MW	0.52	0.78	0.93	0.93	0.96	4.83%	7.25%	8.77%	8.77%	9.05%
GNA_2025_204	Randall 66/12 (D)	Dunning	Capacity	Demand Growth	6/1/2028	Distribution Feeder	11.96	MW	1.61	1.57	1.52	1.48	1.43	13.46%	13.13%	12.71%	12.37%	11.96%
GNA_2025_205	Randall 66/12 (D)	Dunning	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder	10.13	MW	3.41	3.37	3.33	3.28	3.26	33.60%	33.20%	32.81%	32.32%	32.18%
GNA_2025_206	Randall 66/12 (D)	Hasty	Capacity	Demand Growth	6/1/2028	Distribution Feeder		MW	0.39	0.41	0.46	0.50	0.57					
GNA_2025_207	Randall 66/12 (D)	Hasty	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	2.41	2.46	2.50	1.91	2.07					
GNA_2025_208	Randall 66/12 (D)	Junior	Capacity	Demand Growth	6/1/2026	Distribution Feeder	11.96	MW	0.00	1.48	1.54	1.63	1.74	0.00%	12.37%	12.88%	13.63%	14.55%
GNA_2025_209	Randall 66/12 (D)	Junior	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	10.22	MW	1.07	2.74	2.83	0.24	0.52	10.03%	25.61%	26.52%	2.31%	5.09%
GNA_2025_210	Randall 66/12 (D)	Manteca	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	11.20	MW	0.78	0.66	0.74	0.04	0.18	6.96%	5.89%	6.61%	0.35%	1.56%
GNA_2025_211	Randall 66/12 (D)	Nicklin	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder	11.02	MW	0.00	1.24	2.02	1.11	1.46	0.00%	11.25%	18.33%	9.28%	12.21%
GNA_2025_212	Randall 66/12 (D)	Shine	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	7.78	MW	0.00	0.00	0.00	0.00	1.11	0.00%	0.00%	0.00%	0.00%	10.98%
GNA_2025_213	Randall 66/12 (D)	Silva	Capacity (UCT)	Demand Growth	12/31/2027	Distribution Feeder		MW	1.28	6.07	7.46	9.83	9.93					
GNA_2025_214	Randall 66/12 (D)	Wahlstrom	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	10.28	MW	0.00	0.00	0.00	0.39	0.72	0.00%	0.00%	0.00%	3.71%	7.00%
GNA_2025_215	Wimbledon 66/12 (D)	Casals	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	10.15	MW	2.78	3.18	3.18	3.18	3.22	26.48%	31.33%	31.27%	31.18%	31.51%
GNA_2025_216	Wimbledon 66/12 (D)	Federer	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.00	0.74	1.74	1.82					
GNA_2025_217	Wimbledon 66/12 (D)	McEnroe	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	6.92	6.52	6.14	5.70	5.26					
GNA_2025_218	San Marcos 66/16 (D)	null	Capacity	Demand Growth	6/1/2028	Distribution Substation	52.71	MW	0.00	0.00	1.10	3.60	6.40	0.00%	0.00%	2.09%	6.83%	12.14%
GNA_2025_219	Bowl 66/4.16 (D)	Ohio	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.40	MW	0.39	0.26	0.31	0.37	0.43	16.25%	10.83%	12.92%	15.42%	17.92%
GNA_2025_220	Hinson 220/66 (S)	null	Reliability, Capacity	Demand Growth	12/31/2027	Subtrans. Substation	308.00	MW	0.00	0.00	74.80	175.40	179.10	0.00%	0.00%	24.29%	56.95%	58.15%
GNA_2025_221	State Street 66/12 (D)	Forest	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	0.0									

GNA ID	Substation / Subtransmission Line	Circuit	Distribution Service Required	Primary Driver of Grid Need	Operating Date	Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹					
						Element	Rating	Units	2025 ^a	2026 ^a	2027 ^a	2028 ^a	2029 ^a	2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b	
GNA_2025_226	Cabrillo 66/12 (D)	Xerox	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	4.12	6.74	7.61	7.71	7.72						
GNA_2025_227	Chestnut 66/12 (D)	Cornut	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.00	0.59	0.52	0.46						
GNA_2025_228	Chestnut 66/12 (D)	Pinon	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.00	0.85	0.83	0.78						
GNA_2025_229	Chestnut 66/12 (D)	Pistachio	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	1.30	2.93	0.15	0.91	0.80						
GNA_2025_230	Johanna 66/12 (D)	Faro	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.43	0.65	0.63	0.63						
GNA_2025_231	Johanna 66/12 (D)	Spades	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	1.43	1.70	1.89	0.00	0.00						
GNA_2025_232	Johanna 66/12 (D)	Tetris	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	7.54 MW		4.20	6.37	9.30	0.00	0.00		40.94%	62.09%	89.17%	0.00%	0.00%
GNA_2025_233	Baker 115/12 (D)	Chavez	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.00	19.08	22.82	22.78						
GNA_2025_234	Baker 115/12 (D)	Inn	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	12.60	21.96	33.26	44.70	60.18						
GNA_2025_235	Cal City 'B' 33/12 (D)	null	Capacity	Demand Growth	6/1/2025	Distribution Substation		MW	0.90	0.80	0.80	4.70	4.70						
GNA_2025_236	Cal City 'B' 33/12 (D)	Overall	Capacity	Demand Growth	6/30/2028	Distribution Feeder		MW	0.00	0.00	0.00	4.40	4.40						
GNA_2025_237	Downs 115/12 (D)	Bowman	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	10.70 MW		0.28	0.35	1.11	1.28	1.52		2.58%	3.23%	10.26%	11.90%	14.21%
GNA_2025_238	Edwards 115/33 (D)	Castle Butte	Capacity	Demand Growth	6/30/2028	Distribution Feeder		MW	0.00	0.00	0.00	11.10	10.80						
GNA_2025_239	Edwards 115/33 (D)	null	Capacity	Demand Growth	6/30/2028	Distribution Substation		MW	0.00	0.00	0.00	18.10	17.80						
GNA_2025_240	Gale 115/33 (D)	Baroid	Capacity	Demand Growth	12/31/2025	Distribution Feeder		MW	0.00	0.00	2.75	4.25	11.50						
GNA_2025_241	Inyokern 115/33 (D)	Rickover	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	3.91	3.85	3.79	3.73	3.67						
GNA_2025_242	Tortilla 115/33 (D)	Poco	Capacity	Demand Growth	12/31/2027	Distribution Feeder		MW	0.00	1.98	19.82	62.93	64.13						
GNA_2025_243	Beverly 66/16 (D)	Hilton	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	5.70	1.50	1.80	1.80						
GNA_2025_244	Culver 66/4.16 (D)	null	Capacity	Demand Growth	12/31/2026	Distribution Substation	17.16 MW		5.84	5.84	3.04	3.24	3.54		34.03%	34.03%	17.72%	18.88%	20.63%
GNA_2025_245	Marine 66/16 (D)	Marshall	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	1.97	3.47	6.60	6.60	6.60						
GNA_2025_246	Marine 66/16 (D)	null	Capacity	Demand Growth	6/1/2027	Distribution Substation	66.18 MW		0.00	0.62	0.00	0.00	0.00		0.00%	0.94%	0.00%	0.00%	0.00%
GNA_2025_247	Santa Monica 66/16 (D)	null	Capacity	Demand Growth	6/1/2027	Distribution Substation	72.02 MW		0.18	14.86	18.96	21.86	26.76		0.25%	20.63%	26.33%	30.35%	37.16%
GNA_2025_248	Howard 66/4.16 (D)	Van Wick	Capacity	Demand Growth	6/1/2026	Distribution Feeder	2.20 MW		1.10	1.10	1.20	1.20	0.90		50.00%	50.00%	54.55%	54.55%	40.91%
GNA_2025_249	Moneta 16/4.16 (D)	Palm	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.39 MW		0.24	0.24	0.24	0.27	0.33		10.04%	10.04%	10.04%	11.30%	13.81%
GNA_2025_250	Perry 16/4.16 (D)	Strawberry	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder	0.23 MVAR		0.13	0.14	0.14	0.15	0.16		57.78%	62.22%	62.22%	66.67%	71.11%
GNA_2025_251	Yukon 66/16 (D)	Alaska	Capacity	Demand Growth	6/1/2026	Distribution Feeder	13.09 MW		0.00	2.88	2.88	2.88	2.91		0.00%	17.80%	17.80%	17.80%	17.99%
GNA_2025_252	Cudahy 66/4.16 (D)	Able	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder	0.23 MVAR		0.17	0.17	0.00	0.00	0.00		75.56%	75.56%	0.00%	0.00%	0.00%
GNA_2025_253	Gage 16/4.16 (D)	Ira	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.90 MW		0.50	0.50	0.50	0.60	0.00		17.24%	17.24%	17.24%	20.69%	0.00%
GNA_2025_254	Laguna Bell 66/16 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation		MW	0.00	0.00	0.00	0.00	6.40						
GNA_2025_255	Vail 66/16 (D)	Davie	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	7.20	9.80	9.60	9.40	9.20						
GNA_2025_256	Vail 66/16 (D)	null	Capacity	Demand Growth	12/31/2027	Distribution Substation	114.00 MW		6.70	12.30	0.00	3.00	6.10		5.88%	10.79%	0.00%	2.63%	5.35%
GNA_2025_257	Vail 66/16 (D)	Saybrook	Capacity	Demand Growth	6/1/2025	Distribution Feeder		MW	1.20	1.20	1.20	1.10	1.10						
GNA_2025_258	Vail 66/16 (D)	Yates	Capacity	Demand Growth	6/1/2025	Distribution Feeder		MW	0.70	3.20	4.80	4.60	5.50						
GNA_2025_259	Graham 16/4.16 (D)	Nadeau	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.90 MW		0.20	0.20	0.20	0.30	0.30		6.90%	6.90%	6.90%	10.34%	10.34%
GNA_2025_260	Huntington Park 16/4.16 (D)	Rita	Capacity	Demand Growth	6/1/2026	Distribution Feeder	0.90 MW		0.40	0.20	0.20	0.20	0.20		44.44%	22.22%	22.22%	22.22%	22.22%
GNA_2025_261	Randolph 66/16 (D)	Zoe	Capacity	Demand Growth	6/1/2025	Distribution Feeder	9.20 MW		0.30	0.90	0.70	0.80	1.00		3.26%	9.78%	7.61%	8.70%	10.87%
GNA_2025_262	South Gate 16/4.16 (D)	Webbwood	Capacity	Demand Growth	6/1/2026	Distribution Feeder	2.02 MW		0.04	0.05	0.08	0.11	0.18		1.98%	2.48%	3.96%	5.45%	8.91%
GNA_2025_263	Alon 66/12 (D)	Weiser	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	1.49	1.49	1.49	1.48	1.48						
GNA_2025_264	Athens 16/4.16 (D)	Anzac	Capacity	Demand Growth	6/1/2025	Distribution Feeder	1.80 MW		0.80	0.90	0.90	0.90	0.00		44.44%	50.00%	50.00%	50.00%	0.00%
GNA_2025_265	Athens 16/4.16 (D)	null	Capacity	Demand Growth	6/1/2025	Distribution Substation	7.44 MW		0.90	1.00	1.10	1.20	0.00		12.10%	13.44%	14.78%	16.13%	0.00%
GNA_2025_266	Brewster 16/4.16 (D)	Alberta	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.40 MW		0.30	0.30	0.30	0.30	0.30		12.50%	12.50%	12.50%	12.50%	12.50%
GNA_2025_267	Brewster 16/4.16 (D)	Pinehurst	Capacity	Demand Growth	6/1/2025	Distribution Feeder	1.32 MW		1.06	1.01	0.34	0.36	0.40		80.30%	76.52%	25.76%	27.27%	30.30%
GNA_2025_268	Brewster 16/4.16 (D)	Vita	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.90 MW		0.80	0.70	0.70	0.80	0.80		27.59%	24.14%	24.14%	27.59%	27.59%
GNA_2025_269	Bullis 66/16 (D)	Atlantic	Capacity	Demand Growth	12/31/2026	Distribution Feeder		MW	7.48	7.42	11.88	0.48	0.00						
GNA_2025_270	Bullis 66/16 (D)	Colyer	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	12.24	14.36	20.09	15.33	15.27						
GNA_2025_271	Bullis 66/16 (D)	null	Capacity	Demand Growth	12/31/2026	Distribution Substation	82.35 MW		16.18	18.35	26.32	26.85	28.85		19.65%	22.28%	31.96%	32.60%	35.03%
GNA_2025_272	Bullis 66/16 (D)	Trochu	Capacity	Demand Growth	5/19/2021	Distribution Feeder		MW	14.05	14.15	14.15	14.15	14.35						
GNA_2025_273	Bullis 66/4.16 (D)	Agnes	Capacity	Demand Growth	12/31/2025	Distribution Feeder	2.30 MW		0.00	0.00	0.00	0.10	0.10		0.00%	0.00%	0.00%	4.35%	4.35%
GNA_2025_274	Bullis 66/4.16 (D)	Gunlock	Capacity	Demand Growth	12/31/2025	Distribution Feeder	2.30 MW		0.20	0.20	0.30	0.30	0.40		8.70%	8.70%	13.04%	13.04%	17.39%
GNA_2025_275	Bullis 66/4.16 (D)	Pattie	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.00 MW		0.40	0.40	0.40	0.50	0.00		20.00%	20.00%	20.00%	25.00%	0.00%
GNA_2025_276	Compton 16/4.16 (D)	Stockwell	Capacity	Demand Growth	6/1/2026	Distribution Feeder	2.90 MW		0.20	0.30	0.30	0.30	0.40		6.90%	10.34%	10.34%	10.34%	13.79%
GNA_2025_277	Fernwood 66/16 (D)	null	Capacity	Demand Growth	6/1/2026	Distribution Substation	49.68 MW		8.32	16.22	17.32	17.52	18.42		16.75%	32.65%	34.86%	35.27%	37.08%
GNA_2025_278	Fremont 16/4.16 (D)	Boland	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	2.40 MW		0.60	0.60	0.60	0.70	0.80		25.00%	25.00%	25.00%	29.17%	33.33%
GNA_2025_279	Fremont 16/4.16 (D)	Nestor	Capacity	Demand Growth	6/1/2026	Distribution Feeder	2.40 MW		0.70	0.70	0.00	0.00	0.00		29.17%	29.17%	0.00%	0.00%	0.00%
GNA_2025_280	Linden 12/4.16 (D)	Boulevard	Capacity	Demand Growth	6/27/2025	Distribution Feeder	2.10 MW		0.14	0.14	0.11	0.08	0.06		6.67%	6.67%	5.24%	3.81%	2.86%
GNA_2025_281	Linden 12/4.16 (D)	null	Capacity	Demand Growth	12/31/2025	Distribution Substation	4.58 MW		0.00	1.42	1.52	1.52	1.62		0.00%	31.00%	33.19%	33.19%	35.37%
GNA_2025_282	Linden 12/4.16 (D)	Spaulding	Capacity	Demand Growth	4/27/2021	Distribution Feeder	1.50 MW		1.60	2.29	2.28	2.25	2.32		106.67%	152.67%	152.00%	150.00%	154.67%
GNA_2025_283	Lynwood 16/4.16 (D)	Cornish	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.40 MW		0.50	0.50	0.50	0.50	0.50		20.83%	20.83%	20.83%	20.83%	20.83%
GNA_2025_284	Lynwood 16/4.16 (D)	Cornish	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder	0.23 MVAR		0.51	0.51	0.51	0.51	0.52		226.67%	226.67%	226.67%	226.67%	231.11%
GNA_2025_285	Oldfield 12/4.16 (D)	Market	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.90 MW		0.90	0.90	0.90	0.80	0.80		31.03%	31.03%	31.03%	27.59%	27.59%
GNA_2025_286	Oldfield 12/4.16 (D)	null	Capacity	Demand Growth	6/1/2025	Distribution Substation	15.26 MW		0.90	0.90	1.00	0.40	0.50		5.90%	5.90%	6.55%	2.62%	3.28%
GNA_2025_287	Signal Hill 12/4.16 (D)	Michigan	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.40 MW		0.30	0.30	0.30	0.30	0.30		12.50%	12.50%	12.50%	12.50%	12.50%
GNA_2025_288	Signal Hill 12/4.16 (D)	null	Capacity	Demand Growth	6/1/2025	Distribution Substation	6.68 MW		0.60	0.50	0.50	0.50	0.50		8.98%	7.49%	7.49%	7.49%	7.49%
GNA_2025_289	Sunnyside 66/12 (D)	null	Capacity	Demand Growth	12/31/2026	Distribution Substation	67.93 MW		0.00	0.00	22.20	26.98	27.08		0.00%	0.00%	32.68%	39.72%	39.86%
GNA_2025_290	Sunnyside 66/12 (D)	Zane	Capacity	Demand Growth	6/1/2025	Distribution Feeder	12.00 MW		0.60	0.50	0.50	0.40	0.40		5.00%	4.17%	4.17%	3.33%	3.33%
GNA_2025_291	Sunnyside 66/4.16 (D)	Keever	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.90 MW		0.60	0.60	0.00	0.00	0.10		20.69%	20.69%	0.00%	0.00%	3.45%
GNA_2025_292	Sunnyside 66/4.16 (D)	null	Capacity	Demand Growth	6/1/2025	Distribution Substation	17.77 MW		1.43	1.33	0.06	0.08	0.37		8.05%	7.48%	0.34%	0.45%	2.08%
GNA_2025_293	Sunnyside 66/4.16 (D)	Osgood	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.30 MW		0.80	0.80	0.								

GNA ID	Substation / Subtransmission Line	Circuit	Distribution Service Required	Primary Driver of Grid Need	Operating Date	Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹				
						Element	Rating	Units	2025 ^a	2026 ^a	2027 ^a	2028 ^a	2029 ^a	2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b
GNA_2025_301	Ramona 66/4.16 (D)	Shorb	Capacity	Demand Growth	6/1/2027	Distribution Feeder	2.90	MW	2.90	2.90	2.90	3.00	3.00	100.00%	100.00%	100.00%	103.45%	103.45%
GNA_2025_302	Repetto 66/16 (D)	Gleason	Capacity	Demand Growth	12/31/2025	Distribution Feeder		MW	0.00	0.00	0.00	0.18	2.91					
GNA_2025_303	Repetto 66/16 (D)	null	Capacity	Demand Growth	6/1/2026	Distribution Substation	94.09	MW	4.62	3.02	21.22	25.22	25.62	4.91%	3.21%	22.55%	26.80%	27.23%
GNA_2025_304	Repetto 66/16 (D)	Soledad	Capacity	Demand Growth	6/1/2025	Distribution Feeder		MW	3.22	4.62	4.62	2.52	0.22					
GNA_2025_305	Rosemead 66/16 (D)	Gladys	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	14.50	14.50	14.50	14.50	14.50					
GNA_2025_306	Rosemead 66/16 (D)	null	Capacity	Demand Growth	6/1/2028	Distribution Substation	112.62	MW	7.58	9.78	18.78	22.88	23.18	6.73%	8.68%	16.68%	20.32%	20.58%
GNA_2025_307	Rosemead 66/16 (D)	Olney	Capacity	Demand Growth	6/1/2027	Distribution Feeder	14.30	MW	11.40	12.40	13.80	15.70	15.80	79.72%	86.71%	96.50%	109.79%	110.49%
GNA_2025_308	Rosemead 66/16 (D)	Teistar	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	0.00	0.00	22.52	24.42	24.58					
GNA_2025_309	Rush 66/16 (D)	Forbid	Capacity (UCT)	Demand Growth	12/31/2025	Distribution Feeder	13.79	MW	1.06	0.94	0.82	0.76	0.71	7.69%	6.82%	5.93%	5.50%	5.14%
GNA_2025_310	Archibald 66/12 (D)	Danish	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	10.76	MW	7.18	10.40	10.44	10.52	8.22	66.73%	96.65%	97.03%	97.77%	68.73%
GNA_2025_311	Archibald 66/12 (D)	Garrett	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	1.67	9.76	12.89	17.00	9.59					
GNA_2025_312	Archibald 66/12 (D)	Imbach	Capacity	Demand Growth	6/1/2028	Distribution Feeder		MW	2.09	2.09	2.10	2.11	2.20					
GNA_2025_313	Archibald 66/12 (D)	Novac	Capacity	Demand Growth	6/1/2028	Distribution Feeder		MW	2.24	3.60	5.10	2.20	2.54					
GNA_2025_314	Archibald 66/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	131.04	MW	17.90	31.10	32.00	34.40	4.40	13.66%	23.73%	24.42%	26.25%	3.36%
GNA_2025_315	Bain 66/12 (D)	Belgrave	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	0.96	4.60	9.14	13.78	13.86					
GNA_2025_316	Bain 66/12 (D)	Ben Nevis	Capacity	Demand Growth	6/1/2028	Distribution Feeder		MW	1.57	2.17	2.11	2.13	2.17					
GNA_2025_317	Bain 66/12 (D)	Heftler	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	3.18	7.18	7.00	6.92	6.82					
GNA_2025_318	Bain 66/12 (D)	null	Capacity	Demand Growth	6/1/2028	Distribution Substation	72.60	MW	0.00	0.00	0.00	30.20	30.10	0.00%	0.00%	0.00%	41.60%	41.46%
GNA_2025_319	Chase 66/12 (D)	Bobbit	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.41	0.37	0.33	0.28	0.28					
GNA_2025_320	Chase 66/12 (D)	California	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder	0.60	MVAR	1.87	1.87	1.88	1.89	1.90	311.67%	311.67%	313.33%	315.00%	316.67%
GNA_2025_321	Chase 66/12 (D)	Cerrito	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.30	0.30	0.26	0.22	0.17					
GNA_2025_322	Chase 66/12 (D)	Diplomat	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	2.15	2.17	2.48	1.46	2.58					
GNA_2025_323	Chase 66/12 (D)	Harlow	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	1.04	1.00	0.87	0.72	0.57					
GNA_2025_324	Chase 66/12 (D)	Magnolia	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	10.04	MW	0.35	0.33	0.30	0.30	0.28	3.49%	3.29%	2.99%	2.99%	2.79%
GNA_2025_325	Chase 66/12 (D)	Palace	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	9.93	MW	7.76	8.54	8.37	8.19	8.02	77.91%	86.00%	84.29%	82.23%	80.52%
GNA_2025_326	Chase 66/12 (D)	Weirick	Capacity	Demand Growth	6/1/2025	Distribution Feeder		MW	0.00	6.07	0.00	0.00	0.00					
GNA_2025_327	Chase 66/12 (D)	Weirick	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.70	5.58	5.50	5.37	5.33					
GNA_2025_328	Chase 66/12 (D)	Whisper	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.13	0.13	0.11	0.11	0.09					
GNA_2025_329	Chase 66/12 (D)	Wyle	Capacity	Demand Growth	6/1/2025	Distribution Feeder		MW	2.08	3.83	3.96	3.87	3.96					
GNA_2025_330	Chase 66/12 (D)	Wyle	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.57	0.59	0.59	0.70					
GNA_2025_331	Jefferson 66/12 (D)	Coronita	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	10.35	MW	3.39	3.43	3.78	3.83	3.87	32.56%	32.95%	36.52%	37.00%	37.39%
GNA_2025_332	Jefferson 66/12 (D)	Dana	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder		MW	0.87	0.70	0.54	0.22	0.13					
GNA_2025_333	Jefferson 66/12 (D)	Guinness	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.61	0.83	0.85	0.87	0.89					
GNA_2025_334	Jefferson 66/12 (D)	Last	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder		MW	0.00	0.00	1.09	1.33	1.30					
GNA_2025_335	Jefferson 66/12 (D)	Lester	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder		MW	0.13	0.11	0.37	0.35	0.35					
GNA_2025_336	Jefferson 66/12 (D)	Modelo	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	11.24	MW	0.20	0.20	2.04	1.74	1.74	1.78%	1.78%	18.15%	15.10%	15.10%
GNA_2025_337	Jefferson 66/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	144.50	MW	0.90	4.00	3.40	9.20	11.20	0.62%	2.77%	2.35%	6.37%	7.75%
GNA_2025_338	Jefferson 66/12 (D)	Onbord	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder		MW	0.13	0.04	0.22	0.17	0.22					
GNA_2025_339	Jefferson 66/12 (D)	Pacifica	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.00	0.39	0.39	0.37	0.37					
GNA_2025_340	Milliken 66/12 (D)	Cuervo	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	2.20	6.26	10.85	15.63	8.20					
GNA_2025_341	Milliken 66/12 (D)	Mescal	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder		MW	0.76	14.20	14.17	11.28	11.24					
GNA_2025_342	Milliken 66/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	143.98	MW	0.00	8.50	17.40	7.40	9.10	0.00%	5.90%	12.09%	5.14%	6.32%
GNA_2025_343	Milliken 66/12 (D)	Redlabel	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.20	0.39	0.00	0.00	0.00					
GNA_2025_344	Milliken 66/12 (D)	Sauza	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	2.46	4.87	10.40	1.00	0.96					
GNA_2025_345	Milliken 66/12 (D)	Whitehorse	Capacity	Demand Growth	8/1/2025	Distribution Feeder	7.72	MW	3.96	3.90	1.35	1.31	1.29	51.30%	50.52%	17.49%	16.97%	16.71%
GNA_2025_346	Milliken 66/12 (D)	Whitehorse	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	10.89	MW	7.19	7.05	31.35	38.33	18.25	66.02%	64.62%	287.35%	345.63%	164.56%
GNA_2025_347	Mira Loma 220/66 (S)	null	Reactive Power	Demand Growth	12/31/2025	Subtrans. Substation	14.40	MVAR	14.50	37.70	58.10	52.70	38.70	100.69%	261.81%	403.47%	365.97%	268.75%
GNA_2025_348	Mira Loma 220/66 (S)	null	Reliability, Capacity	Demand Growth	12/31/2029	Subtrans. Substation	671.00	MW	172.40	209.10	236.60	240.80	214.40	25.69%	31.16%	35.26%	35.89%	31.95%
GNA_2025_349	Mira Loma 66/12 (D)	Fujiyama	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	3.86	3.96	4.08	0.56	0.78					
GNA_2025_350	Mira Loma 66/12 (D)	Matterhorn	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	7.30	11.08	14.04	12.14	13.78					
GNA_2025_351	Mira Loma 66/12 (D)	null	Capacity	Demand Growth	6/1/2025	Distribution Substation		MW	26.92	31.62	43.07	54.61	59.05					
GNA_2025_352	Mira Loma 66/12 (D)	Olympus	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	1.26	1.22	1.20	1.17	1.15					
GNA_2025_353	Pedley 66/12 (D)	Arlington	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	1.13	1.22	2.22	2.26	2.33					
GNA_2025_354	Pedley 66/12 (D)	Lab	Capacity	Demand Growth	6/1/2028	Distribution Feeder		MW	4.72	5.48	5.46	4.30	0.28					
GNA_2025_355	Pedley 66/12 (D)	null	Capacity	Demand Growth	6/1/2028	Distribution Substation	72.80	MW	18.22	20.13	22.98	25.63	14.07	25.03%	27.65%	31.57%	35.21%	19.33%
GNA_2025_356	Pedley 66/12 (D)	Quarry	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	0.00	0.00	0.00	0.00	0.04					
GNA_2025_357	Pedley 66/12 (D)	Seavine	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	3.35	3.24	3.15	3.13	3.11					
GNA_2025_358	Pedley 66/12 (D)	Wineville	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	4.04	5.22	7.02	9.59	1.76					
GNA_2025_359	Temescal P.T. 33/4.16 (A)	Ceramic	Voltage	Demand Growth	6/1/2025	Distribution Feeder	1.00	Vpu	0.82	0.82	0.82	0.82	0.82	82.00%	82.00%	82.00%	82.00%	82.00%
GNA_2025_360	Concho 115/12 (D)	Bandana	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.83	0.00	0.28	0.28					
GNA_2025_361	Concho 115/12 (D)	Pistola	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	4.85	MW	0.39	5.20	15.74	25.24	25.13	3.44%	107.22%	177.05%	237.00%	235.96%
GNA_2025_362	Concho 115/12 (D)	Sombrero	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.33	1.06	0.65	1.00	0.95					
GNA_2025_363	Concho 115/12 (D)	Suave	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	0.00	MW	0.00	0.39	0.39	0.39	0.39	100.00%	3.44%	3.44%	3.44%	3.44%
GNA_2025_364	Concho 115/12 (D)	Taberna	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	2.15	8.57	10.59	10.31	10.22					
GNA_2025_365	Concho 115/12 (D)	Tepeyac	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	0.00	MW	0.00	0.93	0.54	0.57	0.57	100.00%	8.19%	5.15%	5.44%	5.44%
GNA_2025_366	Indian Wells 115/12 (D)	Deep Canyon	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	0.25	0.25	0.25	0.25	0.25					
GNA_2025_367	Santa Rosa 115/12 (D)	Annenberg	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.50	1.96	2.09	2.28					
GNA_2025_368	Santa Rosa 115/12 (D)	Amez	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	8.83	MW	0.00	0.04	1.78	1.87	2.04	0.00%	0.45%	18.88%	20.11%	22.25%
GNA_2025_369	Santa Rosa 115/12 (D)	Clubhouse	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	2.56	3.39	3.40	6.82	9.92					
GNA_2025_370	Santa Rosa 115/12 (D)	Physician	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	3.59	3.74	3.33	3.39	3.50					
GNA_2025_371	Santa Rosa 115/12 (D)	Tanglewood	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	8.85	MW	2.17	2.28	1.85	1.89	2.00	24.11%	25.76%	19.98%	20.54%	22.00%
GNA_2025_372	Moorpark 66/16 (D)	Morganstein	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.47</									

GNA ID	Substation / Subtransmission Line	Circuit	Distribution Service Required	Primary Driver of Grid Need	Operating Date	Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹				
						Element	Rating	Units	2025 ^a	2026 ^a	2027 ^a	2028 ^a	2029 ^a	2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b
GNA_2025_376	Thousand Oaks 66/16 (D)	Byer	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	3.48	6.36	10.94	6.94	7.88					
GNA_2025_377	Valdez 66/16 (D)	Sorrento	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.00	0.00	0.00	0.94	1.62				
GNA_2025_378	Telegraph 66/12 (D)	Beta	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	11.09	MW	1.41	1.46	1.54	1.61	1.74	12.71%	13.17%	13.89%	14.52%	15.69%
GNA_2025_379	Telegraph 66/12 (D)	Pete	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	1.87	1.87	1.87	1.89	1.96					
GNA_2025_380	Telegraph 66/12 (D)	Socrates	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	10.85	MW	0.59	0.65	0.74	0.83	0.91	5.44%	5.99%	6.82%	7.65%	8.39%
GNA_2025_381	Cucamonga 66/12 (D)	Earnhardt	Capacity (UCT)	Demand Growth	6/30/2025	Distribution Feeder		MW	1.04	0.76	0.83	1.85	2.09					
GNA_2025_382	Cucamonga 66/12 (D)	Gurney	Capacity (UCT)	Demand Growth	6/30/2025	Distribution Feeder		MW	0.61	0.80	0.91	1.00	1.35					
GNA_2025_383	Cucamonga 66/12 (D)	Hanks	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	5.28	5.15	5.11	5.04					
GNA_2025_384	Cucamonga 66/12 (D)	Mears	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	0.26	1.50	3.76	4.54	4.52					
GNA_2025_385	Cucamonga 66/12 (D)	Mears	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.52	4.96	9.48	11.04	11.00					
GNA_2025_386	Cucamonga 66/12 (D)	null	Capacity	Demand Growth	6/1/2027	Distribution Substation	147.02	MW	4.40	10.40	16.00	17.20	2.40	2.99%	7.07%	10.88%	11.70%	1.63%
GNA_2025_387	Cucamonga 66/12 (D)	Rutherford	Capacity (UCT)	Demand Growth	6/30/2025	Distribution Feeder		MW	1.78	1.78	1.78	1.67	1.74					
GNA_2025_388	Cucamonga 66/12 (D)	Ruttman	Capacity (UCT)	Demand Growth	6/30/2025	Distribution Feeder	8.48	MW	5.38	5.27	5.20	5.09	5.03	63.44%	62.15%	61.32%	60.02%	59.32%
GNA_2025_389	Cucamonga 66/12 (D)	Yarborough	Capacity (UCT)	Demand Growth	6/30/2025	Distribution Feeder		MW	3.24	3.04	3.17	3.63	4.04					
GNA_2025_390	Live Oak 66/12 (D)	Alamosa	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	10.09	MW	0.00	0.00	0.00	0.09	0.20	0.00%	0.00%	0.00%	0.88%	1.97%
GNA_2025_391	Live Oak 66/12 (D)	Palmer	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	8.78	MW	0.00	0.00	0.26	0.35	0.46	0.00%	0.00%	2.53%	3.42%	4.50%
GNA_2025_392	Padua 220/66 (S)	null	Reliability, Capacity	Demand Growth	5/1/2028	Subtrans. Substation	663.00	MW	9.30	23.10	35.00	35.10	40.90	1.40%	3.48%	5.28%	5.29%	6.17%
GNA_2025_393	San Dimas 66/12 (D)	Carlet	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	0.31	0.32	0.32	0.33	0.35					
GNA_2025_394	Parker Strip 33/12 (D)	Jet Ski	Capacity	Demand Growth	6/1/2021	Distribution Feeder		MW	0.96	0.96	0.96	0.93	0.93					
GNA_2025_395	Goshen 66/12 (D)	Harrell	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	5.17	9.67	18.67	18.60	20.36					
GNA_2025_396	Goshen 66/12 (D)	Sierra	Capacity (UCT)	Demand Growth	12/31/2025	Distribution Feeder		MW	5.19	7.38	7.22	7.03	6.89					
GNA_2025_397	Hanford 66/12 (D)	Burris	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	0.00	0.00	3.31	5.04	10.33					
GNA_2025_398	Liberty 66/12 (D)	Mid Valle	Capacity	Demand Growth	12/31/2025	Distribution Feeder		MW	0.00	0.17	0.15	0.15	0.13					
GNA_2025_399	Rector 220/66 (S)	null	Capacity	Demand Growth	6/1/2027	Subtrans. Substation	900.00	MW	0.00	0.00	0.00	7.40	13.00	0.00%	0.00%	0.00%	0.82%	1.44%
GNA_2025_400	Rector 66/12 (D)	Gordon	Capacity	Demand Growth	12/31/2025	Distribution Feeder	11.96	MW	1.00	1.65	2.37	2.28	2.22	8.36%	13.80%	19.82%	19.06%	18.56%
GNA_2025_401	Riverway 66/12 (D)	American	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	2.12	2.00	2.25	2.55	2.63					
GNA_2025_402	Riverway 66/12 (D)	Gila	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.57	0.61	0.65	0.80	0.89					
GNA_2025_403	Riverway 66/12 (D)	Klamath	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	3.74	4.65	4.72	4.87	4.93					
GNA_2025_404	Riverway 66/12 (D)	Mississippi	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	9.52	MW	0.00	0.00	0.09	6.52	8.16	0.00%	0.00%	0.89%	60.59%	75.84%
GNA_2025_405	Riverway 66/12 (D)	Rio Grande	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	10.87	MW	1.34	1.40	1.74	2.08	2.22	12.04%	12.58%	15.79%	19.14%	20.42%
GNA_2025_406	Tulare 66/12 (D)	Cheese	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	0.80	0.65	0.59	0.22	0.35					
GNA_2025_407	Tulare 66/12 (D)	Guernsey	Capacity (UCT)	Demand Growth	12/31/2025	Distribution Feeder		MW	1.04	0.44	0.32	0.23	0.17					
GNA_2025_408	Tulare 66/12 (D)	Milk	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	4.02	29.59	44.48	10.76	25.56					
GNA_2025_409	Tulare 66/12 (D)	Rinker	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder	9.91	MW	0.07	0.00	0.00	0.00	0.00	0.71%	0.00%	0.00%	0.00%	0.00%
GNA_2025_410	Tulare 66/12 (D)	Whey	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	2.86	4.60	6.86	6.70					
GNA_2025_411	Venida 66/12 (D)	Hays	Capacity	Demand Growth	12/31/2026	Distribution Feeder	10.43	MW	0.11	0.11	0.11	0.13	0.15	1.05%	1.05%	1.05%	1.25%	1.44%
GNA_2025_412	Visalia 66/12 (D)	Cuttler	Capacity	Demand Growth	6/1/2026	Distribution Feeder	9.02	MW	0.28	0.22	0.13	0.09	0.07	3.10%	2.44%	1.44%	1.00%	0.78%
GNA_2025_413	Visalia 66/12 (D)	Cuttler	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	11.76	MW	1.63	2.39	1.26	1.11	1.05	13.86%	20.29%	10.68%	9.38%	8.86%
GNA_2025_414	Amador 66/16 (D)	Daroca	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	2.76	2.82	4.58	4.88	5.12					
GNA_2025_415	Amador 66/16 (D)	Enloe	Capacity (UCT)	Demand Growth	7/1/2025	Distribution Feeder		MW	0.94	1.71	1.59	1.47	1.38					
GNA_2025_416	Amador 66/16 (D)	Exline	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder	10.21	MW	6.42	6.36	10.94	10.94	11.18	62.88%	62.29%	106.84%	106.84%	109.50%
GNA_2025_417	Amador 66/16 (D)	Gardea	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	3.36	3.30	6.18	6.36	6.52					
GNA_2025_418	Amador 66/16 (D)	Roseglen	Capacity	Demand Growth	6/1/2025	Distribution Feeder	14.29	MW	0.38	1.63	1.63	1.50	1.50	2.66%	11.41%	11.41%	10.50%	10.50%
GNA_2025_419	Amador 66/4.16 (D)	Cogswell	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder	2.53	MW	0.46	0.44	0.42	0.44	0.48	18.18%	17.39%	16.47%	17.32%	18.90%
GNA_2025_420	Amador 66/4.16 (D)	Columbia	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder	2.51	MW	0.14	0.10	0.08	0.06	0.08	5.58%	3.97%	3.16%	2.37%	3.17%
GNA_2025_421	Arcadia 66/4.16 (D)	Diamond	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder	0.23	MVAR	0.94	0.94	0.95	0.96	0.97	417.78%	417.78%	422.22%	426.67%	431.11%
GNA_2025_422	Arcadia 66/4.16 (D)	Diamond	Voltage	Demand Growth	8/31/2025	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_2025_423	Arcadia 66/4.16 (D)	Joyce	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder	0.23	MVAR	0.00	0.00	0.00	0.01	0.02	0.00%	0.00%	0.00%	4.44%	8.89%
GNA_2025_424	Arcadia 66/4.16 (D)	Joyce	Voltage	Demand Growth	8/31/2025	Distribution Feeder	1.00	Vpu	0.93	0.93	0.93	0.93	0.93	93.00%	93.00%	93.00%	93.00%	93.00%
GNA_2025_425	Bradbury 66/16 (D)	Bateman	Capacity (UCT)	Demand Growth	12/1/2025	Distribution Feeder	13.00	MW	1.64	3.88	3.88	3.76	3.76	12.62%	29.85%	29.85%	28.92%	28.92%
GNA_2025_426	Bradbury 66/16 (D)	Fig	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	2.12	2.32	2.00	2.06	2.12					
GNA_2025_427	Bradbury 66/16 (D)	Honeywell	Capacity (UCT)	Demand Growth	12/1/2025	Distribution Feeder		MW	3.00	3.00	3.18	3.30	3.48					
GNA_2025_428	Bradbury 66/16 (D)	Hurstview	Capacity (UCT)	Demand Growth	12/1/2025	Distribution Feeder		MW	4.76	5.12	5.18	5.24	5.36					
GNA_2025_429	Bradbury 66/16 (D)	Primrose	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.38	0.41	0.24	0.24	0.29					
GNA_2025_430	Dalton 66/12 (D)	Lager	Capacity (UCT)	Demand Growth	5/31/2027	Distribution Feeder		MW	0.00	0.00	6.74	6.70	6.60					
GNA_2025_431	Dalton 66/12 (D)	null	Capacity	Demand Growth	6/1/2028	Distribution Substation	72.74	MW	0.00	0.00	13.13	14.80	15.04	0.00%	0.00%	18.05%	20.35%	20.68%
GNA_2025_432	Lark Ellen 66/12 (D)	Barbara	Capacity	Demand Growth	9/1/2026	Distribution Feeder		MW	0.35	0.30	0.26	0.22	0.17					
GNA_2025_433	Lark Ellen 66/12 (D)	Barbara	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.30	3.02	2.96	2.89	2.80					
GNA_2025_434	Lark Ellen 66/12 (D)	Eleanor	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	1.17	1.20	2.07	2.13	2.20					
GNA_2025_435	Rio Hondo 220/66 (S)	null	Reactive Power	Demand Growth	12/31/2028	Subtrans. Substation	14.40	MVAR	1.30	9.00	30.00	43.60	45.30	9.03%	62.50%	208.33%	302.78%	314.58%
GNA_2025_436	Rio Hondo 66/12 (D)	Euphrates	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	4.44	2.96	9.74	9.58	9.38					
GNA_2025_437	Rio Hondo 66/12 (D)	Nile	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	1.61	1.63	1.67	1.72	1.78					
GNA_2025_438	Rio Hondo 66/12 (D)	Ottowa	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.48	0.41	0.46	0.50	0.54					
GNA_2025_439	Rio Hondo 66/12 (D)	Pecos	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	3.27	3.33	3.52	3.66	3.91					
GNA_2025_440	Rio Hondo 66/12 (D)	Rhine	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	1.61	1.50	1.41	1.30	1.17					
GNA_2025_441	Rio Hondo 66/12 (D)	Tigris	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	1.28	9.64	9.62	11.78	12.30					
GNA_2025_442	Rio Hondo 66/16 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation		MW	1.03	8.24	3.09	12.79	12.65					
GNA_2025_443	Rio Hondo 66/16 (D)	Pit	Capacity	Demand Growth	6/1/2028	Distribution Feeder		MW	0.00	0.00	0.00	5.65	5.65					
GNA_2025_444	Sierra Madre 16/4.16 (D)	Lowell	Voltage	Demand Growth	6/1/2026	Distribution Feeder	1.00	Vpu	0.86	0.86	0.86	0.86	0.86	86.00%	86.00%	86.00%	86.00%	86.00%
GNA_2025_445	Cardiff 66/12 (D)	Justice	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	1.77	1.73	1.68	1.64	1.83					
GNA_2025_446	Highland 66/12 (D)	Cram	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.15	0.85	0.00	0.00					
GNA_2025_447	Highland 66/12 (D)	Goldbuckle	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.43	0.83							

GNA ID	Substation / Subtransmission Line	Circuit	Distribution Service Required	Primary Driver of Grid Need	Operating Date	Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹				
						Element	Rating	Units	2025 ^a	2026 ^a	2027 ^a	2028 ^a	2029 ^a	2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b
GNA_2025_451	San Bernardino 66/12 (D)	Dragon	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	0.74	0.73	0.71	0.81	0.80					
GNA_2025_452	Tippecanoe 12/4.16 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	6.70	MW	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	1.49%
GNA_2025_453	Yucaipa 66/12 (D)	Conine	Capacity (UCT)	Demand Growth	4/1/2026	Distribution Feeder		MW	0.00	10.70	14.86	17.48	17.44					
GNA_2025_454	Camarillo 66/16 (D)	Adolfo	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	1.20	1.00	0.80	0.60					
GNA_2025_455	Camarillo 66/16 (D)	Crosson	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.80	3.20	2.80	6.00	6.00					
GNA_2025_456	Camarillo 66/16 (D)	Evita	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.20	0.60	0.40	0.00	0.00					
GNA_2025_457	Camarillo 66/16 (D)	Flynn	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	4.20	3.80	2.60	2.40					
GNA_2025_458	Camarillo 66/16 (D)	Rosa	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	2.60	2.60	2.00	1.40	1.40					
GNA_2025_459	Channel Island 66/16 (D)	null	Reliability, Voltage	Demand Growth	6/1/2027	Subtrans. Substation		Vpu	0.00	0.00	0.07	0.07	0.07					
GNA_2025_460	Channel Island 66/16 (D)	Surfside	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.60	3.40	4.10	2.20	2.30					
GNA_2025_461	Colonia 66/16 (D)	Fifth St.	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	3.30	4.20	6.70	8.50					
GNA_2025_462	Gonzales 66/16 (D)	Buckaroo	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	1.70	1.70	1.60	1.60	1.60					
GNA_2025_463	Gonzales 66/16 (D)	Corsica	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	1.10	0.00	0.00	0.00	0.00					
GNA_2025_464	Gonzales 66/16 (D)	Ditch	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	2.60	5.50	7.30	8.20	9.10					
GNA_2025_465	Levy 66/16 (D)	Olson	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.10	0.00	0.00	0.00	0.00					
GNA_2025_466	San Miguel 66/16 (D)	Diablo	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	13.90	MW	0.20	0.20	0.30	1.90	1.90	1.44%	1.44%	2.16%	13.67%	13.67%
GNA_2025_467	San Miguel 66/16 (D)	Gringo	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	1.70	1.70	1.70	1.00	1.00					
GNA_2025_468	Santa Clara 220/66 (S)	null	Capacity	Demand Growth	6/1/2029	Subtrans. Substation	280.00	MW	0.00	0.00	0.00	5.88	7.00	0.00%	0.00%	0.00%	2.10%	2.50%
GNA_2025_469	Santa Clara 220/66 (S)	null	Reactive Power	Demand Growth	6/1/2027	Subtrans. Substation	14.40	MVAR	0.00	0.00	0.00	4.70	5.70	0.00%	0.00%	0.00%	32.64%	39.58%
GNA_2025_470	Santa Clara 220/66 (S)	null	Reliability, Capacity	Demand Growth	6/1/2029	Subtrans. Substation	300.00	MW	51.60	72.00	94.20	108.30	110.10	17.20%	24.00%	31.40%	36.10%	36.70%
GNA_2025_471	Saticoy 66/16 (D)	Highway	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	10.00	MW	0.00	0.00	0.00	0.00	0.60	0.00%	0.00%	0.00%	0.00%	4.62%
GNA_2025_472	Saticoy 66/16 (D)	Maxson	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	0.77	0.00	0.00	0.00	0.00					
GNA_2025_473	Saticoy 66/16 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	58.79	MW	0.00	0.51	1.41	3.31	4.21	0.00%	0.87%	2.40%	5.63%	7.16%
GNA_2025_474	Saticoy 66/16 (D)	Vineyard	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.00	0.40	2.60	3.20					
GNA_2025_475	Wakefield 66/16 (D)	Atmore	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	0.44	0.12	1.91	1.56	1.35					
GNA_2025_476	Wakefield 66/16 (D)	Atmore	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	0.00	0.00	0.08	0.00	0.00					
GNA_2025_477	Crown 66/12 (D)	Coastal	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	1.48	2.37	2.43	2.50	2.59					
GNA_2025_478	Crown 66/12 (D)	Gunther	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	1.20	1.04	1.04	1.11	1.20					
GNA_2025_479	Crown 66/12 (D)	Kewamee	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	1.43	1.46	2.00	2.09	2.22					
GNA_2025_480	Crown 66/12 (D)	Minoa	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.00	0.61	0.59	0.57					
GNA_2025_481	Crown 66/12 (D)	Peninsula	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.00	0.00	0.00	0.02					
GNA_2025_482	Estrella 66/12 (D)	Haley	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.00	2.28	0.00	0.00	0.00					
GNA_2025_483	Estrella 66/12 (D)	Horoscope	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.48	1.39	1.43	1.76	1.89					
GNA_2025_484	Estrella 66/12 (D)	Stargazer	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	2.19	2.18	2.17	2.17	2.16					
GNA_2025_485	Irvine 66/12 (D)	Cadence	Capacity (UCT)	Demand Growth	5/1/2025	Distribution Feeder		MW	2.88	4.80	2.86	0.00	0.00					
GNA_2025_486	Irvine 66/12 (D)	Elden	Capacity (UCT)	Demand Growth	5/1/2025	Distribution Feeder	9.48	MW	0.00	0.00	0.00	4.09	4.53	0.00%	0.00%	0.00%	42.16%	46.70%
GNA_2025_487	Irvine 66/12 (D)	Great Park	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.00	0.59	0.74	0.87					
GNA_2025_488	Irvine 66/12 (D)	Hines	Capacity (UCT)	Demand Growth	5/1/2025	Distribution Feeder		MW	4.87	5.41	0.26	0.78	1.44					
GNA_2025_489	Irvine 66/12 (D)	Irvine Ckt #14	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	10.17	MW	1.67	0.00	0.13	0.39	0.39	15.52%	0.00%	1.25%	3.83%	3.83%
GNA_2025_490	Irvine 66/12 (D)	Jeffrey	Capacity (UCT)	Demand Growth	5/1/2025	Distribution Feeder		MW	0.00	0.08	1.43	0.48	0.57					
GNA_2025_491	Irvine 66/12 (D)	Keeline	Capacity (UCT)	Demand Growth	5/1/2025	Distribution Feeder		MW	4.70	6.82	7.26	7.30	7.26					
GNA_2025_492	Irvine 66/12 (D)	Magazine	Capacity (UCT)	Demand Growth	5/1/2025	Distribution Feeder		MW	0.00	0.00	0.15	0.41	0.82					
GNA_2025_493	Irvine 66/12 (D)	Paragon	Capacity (UCT)	Demand Growth	5/1/2025	Distribution Feeder	9.98	MW	3.08	3.51	1.34	1.78	2.29	29.90%	34.21%	13.35%	17.84%	22.95%
GNA_2025_494	Las Lomas 66/12 (D)	Oslo	Capacity	Demand Growth	5/1/2025	Distribution Feeder		MW	3.82	4.04	0.92	1.18	1.82					
GNA_2025_495	Santiago 66/12 (D)	Centavo	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.00	0.00	0.00	0.17	0.15					
GNA_2025_496	Santiago 66/12 (D)	Cordoba	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.00	0.00	0.00	0.00	1.68					
GNA_2025_497	Santiago 66/12 (D)	Dime	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	0.02	1.11	3.15	5.22	5.46					
GNA_2025_498	Santiago 66/12 (D)	Franc	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	7.72	12.34	11.96	18.42	18.54					
GNA_2025_499	Santiago 66/12 (D)	null	Capacity	Demand Growth	6/1/2027	Distribution Substation	201.41	MW	0.00	0.00	0.00	0.00	2.08	0.00%	0.00%	0.00%	0.00%	1.03%
GNA_2025_500	Santiago 66/12 (D)	Ruble	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.00	0.00	0.00	0.48	2.82					
GNA_2025_501	Santiago 66/12 (D)	Schilling	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	1.11	1.09	1.00	1.92	2.26					
GNA_2025_502	Elizabeth Lake 66/16 (D)	Cello	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	1.38	1.35	1.18	1.21	1.21					
GNA_2025_503	Elizabeth Lake 66/16 (D)	Clarinet	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.76	0.94	0.88	3.70	4.00					
GNA_2025_504	Elizabeth Lake 66/16 (D)	Guitar	Capacity (UCT)	Demand Growth	4/13/2029	Distribution Feeder		MW	0.00	0.00	0.00	0.00	0.38					
GNA_2025_505	Elizabeth Lake 66/16 (D)	Trumpet	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	2.58	2.82	0.65	1.06	1.24					
GNA_2025_506	Haskell 66/16 (D)	null	Capacity	Demand Growth	6/1/2027	Distribution Substation	131.03	MW	0.00	0.00	10.82	0.00	0.00	0.00%	0.00%	8.26%	0.00%	0.00%
GNA_2025_507	Lockheed 66/16 (D)	Orion	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.00	0.12	0.42	0.70					
GNA_2025_508	Lockheed 66/16 (D)	Starfighter	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	14.79	MW	0.29	0.18	3.33	3.52	4.03	1.96%	1.11%	20.77%	21.76%	25.14%
GNA_2025_509	Newhall 66/16 (D)	Gavin	Capacity (UCT)	Demand Growth	4/13/2029	Distribution Feeder		MW	0.00	0.00	0.00	0.00	6.59					
GNA_2025_510	North Oaks 66/16 (D)	Boa	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	0.97	0.97	0.97	1.00					
GNA_2025_511	North Oaks 66/16 (D)	Mamba	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	0.09	0.09	0.00	0.00	0.00					
GNA_2025_512	San Fernando 66/16 (D)	Kalisher	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	0.00	0.00	2.79	4.53	4.65					
GNA_2025_513	Santa Susana 66/16 (D)	Kuehner	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	1.57	1.61	1.65	1.70	1.74					
GNA_2025_514	Saugus 66/16 (D)	Crabtree	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	11.79	11.97	6.76	9.47					
GNA_2025_515	Saugus 66/16 (D)	null	Capacity	Demand Growth	4/13/2029	Distribution Substation	144.53	MW	0.00	0.00	0.00	0.00	0.88	0.00%	0.00%	0.00%	0.00%	0.61%
GNA_2025_516	Saugus 66/16 (D)	Riner	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	1.42	1.42	1.42	1.42	1.44					
GNA_2025_517	Saugus 66/16 (D)	Tips	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	28.59	35.94	41.86	36.03	43.70					
GNA_2025_518	Solemint 66/16 (D)	Sand Canyon	Capacity	Demand Growth	6/1/2028	Distribution Feeder		MW	0.00	0.00	0.00	0.00	1.32					
GNA_2025_519	Bliss 66/12 (D)	Serenity	Capacity (UCT)	Demand Growth	8/1/2026	Distribution Feeder		MW	0.74	3.13	2.80	2.65	2.57					
GNA_2025_520	Boxwood 66/12 (D)	Elster	Capacity	Demand Growth	9/1/2026	Distribution Feeder		MW	1.91	1.91	1.93	1.96	2.00					
GNA_2025_521	Porterville 66/12 (D)	Beattie	Capacity (UCT)	Demand Growth	11/1/2026	Distribution Feeder	7.67	MW	0.00	0.00	0.35	0.39	0.43	0.00%	0.00%	3.67%	4.09%	4.51%
GNA_2025_522	Porterville 66/12 (D)	Campbell	Capacity (UCT)	Demand Growth	11/1/2026	Distribution Feeder		MW	0.00	0.91	0.00	0.00	0.00					
GNA_2025_523	Porterville 66/12 (D)	Henderson	Capacity (UCT)	Demand Growth	11/1/2026	Distribution Feeder		MW	0.54	1.68	3.25	3.97	3.84					
GNA_2025_524	Porterville 66/12 (D)	Josten	Capacity	Demand Growth	10/1/2026	Distribution Feeder		MW	1.50	1.50	0.00	0.00	0.00					
GNA_2025_525	Porterville 66/12 (D)	Josten	Capacity (UCT)	Demand Growth	11/1/2026	Distribution Feeder		MW	0.76	0.80	4.14	3.78	3.82					

GNA ID	Substation / Subtransmission Line	Circuit	Distribution Service Required	Primary Driver of Grid Need	Operating Date	Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹				
						Element	Rating	Units	2025 ^A	2026 ^A	2027 ^A	2028 ^A	2029 ^A	2025 ^B	2026 ^B	2027 ^B	2028 ^B	2029 ^B
GNA_2025_526	Porterville 66/12 (D)	Monache	Capacity (UCT)	Demand Growth	11/1/2026	Distribution Feeder		MW	1.78	0.00	0.20	0.24	0.28					
GNA_2025_527	Porterville 66/12 (D)	Vandalia	Capacity (UCT)	Demand Growth	11/1/2026	Distribution Feeder		MW	0.00	0.00	6.97	7.39	9.61					
GNA_2025_528	Alessandro 115/12 (D)	Edwin	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	2.40	2.01	1.56	1.17	0.78					
GNA_2025_529	Alessandro 115/12 (D)	null	Capacity	Demand Growth	6/1/2027	Distribution Substation	128.89	MW	0.00	0.00	0.00	0.52	2.48	0.00%	0.00%	0.00%	0.40%	1.92%
GNA_2025_530	Alessandro 115/12 (D)	Serpentine	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	7.89	7.62	8.22	4.89	6.48					
GNA_2025_531	Alessandro 115/33 (D)	null	Capacity	Demand Growth	6/1/2025	Distribution Substation		MW	0.36	11.44	23.81	28.50	33.77					
GNA_2025_532	Alessandro 115/33 (D)	Oliver	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.00	1.02	8.14	8.14					
GNA_2025_533	Bunker 115/12 (D)	Ammo	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	2.73	2.40	2.39	2.38	2.37					
GNA_2025_534	Bunker 115/12 (D)	Carbine	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	7.66	5.66	6.00	6.52	6.34					
GNA_2025_535	Bunker 115/12 (D)	Chaney	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	26.30	22.02	42.66	48.39	56.70					
GNA_2025_536	Bunker 115/12 (D)	Corporal	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	9.37	MW	0.00	0.00	26.96	0.00	0.00	0.00%	0.00%	231.42%	0.00%	0.00%
GNA_2025_537	Bunker 115/12 (D)	Harrier	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	1.66	11.34	26.60	26.60	26.48					
GNA_2025_538	Bunker 115/12 (D)	null	Capacity	Demand Growth	12/31/2025	Distribution Substation	108.67	MW	5.52	6.98	30.65	21.33	23.50	5.08%	6.42%	28.20%	19.63%	21.63%
GNA_2025_539	Bunker 115/12 (D)	Soldier	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.00	0.00	1.08	0.00	0.00					
GNA_2025_540	Cajalco 115/12 (D)	null	Capacity	Demand Growth	6/1/2028	Distribution Substation	88.20	MW	0.00	0.00	0.00	5.65	6.43	0.00%	0.00%	0.00%	6.41%	7.29%
GNA_2025_541	Cajalco 115/12 (D)	Starglow	Capacity (UCT)	Demand Growth	9/1/2023	Distribution Feeder		MW	1.46	0.00	0.00	0.00	0.00					
GNA_2025_542	Moreno 115/12 (D)	Accent	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder	0.60	MVAR	0.16	0.17	0.18	0.19	0.22	26.67%	28.33%	30.00%	31.67%	36.67%
GNA_2025_543	Nelson 115/12 (D)	Easter	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder		MW	1.02	1.85	2.74	3.63	3.65					
GNA_2025_544	Nelson 115/12 (D)	Lockner	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder		MW	1.28	0.00	0.15	0.48	0.52					
GNA_2025_545	Nelson 115/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	107.13	MW	4.74	7.37	11.72	12.87	12.96	4.42%	6.88%	10.94%	12.01%	12.10%
GNA_2025_546	Stetson 115/12 (D)	Sopwith	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder	0.60	MVAR	0.59	0.99	0.98	0.96	0.95	98.33%	165.00%	163.33%	160.00%	158.33%
GNA_2025_547	Valley 115/12 (D)	Deacon	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	7.29	9.72	8.83	11.58	15.00					
GNA_2025_548	Valley 115/12 (D)	Ethanac	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	2.27	3.66	15.81	25.30	28.06					
GNA_2025_549	Valley 115/12 (D)	Jerry	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	9.87	MW	0.00	0.00	10.04	15.04	15.04	0.00%	0.00%	83.95%	125.75%	125.75%
GNA_2025_550	Valley 115/12 (D)	Napa	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	2.79	2.22	1.15	1.91	0.94					
GNA_2025_551	Valley 115/12 (D)	Nations	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	11.39	MW	0.04	0.14	0.18	0.26	1.18	0.35%	1.22%	1.57%	2.27%	10.36%
GNA_2025_552	Valley 115/12 (D)	Nova	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	0.42	0.02	0.36	0.37	0.39					
GNA_2025_553	Valley 115/12 (D)	Sonoma	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	10.52	MW	0.00	0.00	24.51	23.09	23.21	0.00%	0.00%	204.93%	207.83%	209.29%
GNA_2025_554	Auld 115/12 (D)	Clydesdale	Capacity	Demand Growth	6/1/2029	Distribution Feeder		MW	0.00	0.00	0.57	0.57	0.59					
GNA_2025_555	Auld 115/12 (D)	Garboni	Capacity	Demand Growth	6/1/2029	Distribution Feeder		MW	1.96	1.87	4.39	7.13	7.39					
GNA_2025_556	Auld 115/12 (D)	Leon	Capacity	Demand Growth	6/1/2029	Distribution Feeder	11.96	MW	2.02	1.91	1.80	1.72	1.63	16.89%	15.97%	15.05%	14.38%	13.63%
GNA_2025_557	Auld 115/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	144.00	MW	0.00	0.00	0.00	2.20	3.80	0.00%	0.00%	0.00%	1.53%	2.64%
GNA_2025_558	Auld 115/12 (D)	Rawson	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	0.44	0.45	0.47	0.48	0.50					
GNA_2025_559	Canyon Lake 33/12 (D)	Searay	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	0.48	0.48	0.48	0.49	0.50					
GNA_2025_560	Elsinore 115/12 (D)	Collier	Capacity	Demand Growth	8/1/2023	Distribution Feeder		MW	0.87	1.09	1.20	1.30	1.20					
GNA_2025_561	Ivyglen 115/12 (D)	Conestoga	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	15.87	15.89	23.43	23.48					
GNA_2025_562	Ivyglen 115/12 (D)	Conestoga	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	0.00	18.72	18.76	23.98	24.02					
GNA_2025_563	Newcomb 115/12 (D)	Bradley	Capacity (UCT)	Demand Growth	12/31/2027	Distribution Feeder	10.54	MW	1.30	1.24	1.20	1.13	1.09	12.25%	11.71%	11.35%	10.69%	10.34%
GNA_2025_564	Newcomb 115/12 (D)	Bradley	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder	0.60	MVAR	0.11	0.09	0.07	0.05	0.03	18.33%	15.00%	11.67%	8.33%	5.00%
GNA_2025_565	Newcomb 115/12 (D)	Farmington	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	8.74	17.91	29.37	27.78	28.52					
GNA_2025_566	Newcomb 115/12 (D)	McLaughlin	Capacity (UCT)	Demand Growth	12/31/2027	Distribution Feeder		MW	0.22	0.28	0.37	0.00	0.07					
GNA_2025_567	Sun City 115/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	108.11	MW	0.00	12.20	33.60	25.50	33.50	0.00%	11.28%	31.08%	23.59%	30.99%
GNA_2025_568	Sun City 115/12 (D)	Photon	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	0.78	5.20	11.43	7.20	10.00					
GNA_2025_569	Sun City 115/12 (D)	Photon	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.78	5.20	11.43	7.20	10.00					
GNA_2025_570	Tenaja 115/12 (D)	null	Capacity	Demand Growth	6/1/2029	Distribution Substation	72.50	MW	0.00	0.00	0.00	0.00	11.00	0.00%	0.00%	0.00%	0.00%	15.17%
GNA_2025_571	Triton 115/12 (D)	Argonaut	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	11.22	MW	1.09	1.13	1.22	1.28	1.37	9.71%	10.07%	10.87%	11.41%	12.21%
GNA_2025_572	Triton 115/12 (D)	Capelin	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	11.63	MW	1.91	3.09	3.20	3.28	3.39	16.30%	26.37%	27.35%	28.11%	29.15%
GNA_2025_573	Triton 115/12 (D)	Seawolf	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	11.13	MW	2.59	3.83	3.89	3.98	4.07	23.27%	34.41%	34.95%	35.76%	36.57%
GNA_2025_574	Valley EFG 500/115 (S)		Reliability, Capacity	Demand Growth	6/1/2025	Subtrans. Substation	896.00	MW	338.00	454.60	531.00	575.60	605.40	37.72%	50.74%	59.26%	64.24%	67.57%
GNA_2025_575	Delano 66/12 (D)	CBS	Capacity (UCT)	Demand Growth	10/1/2026	Distribution Feeder		MW	0.00	3.98	1.50	1.48	1.37					
GNA_2025_576	Aqueduct 115/12 (D)	Flue	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	1.64	2.06	2.60	2.68	2.69					
GNA_2025_577	Aqueduct 115/12 (D)	Needle	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	8.41	MW	1.09	1.11	1.15	1.20	1.26	12.96%	13.20%	13.67%	14.27%	14.98%
GNA_2025_578	Aqueduct 115/12 (D)	null	Capacity	Demand Growth	6/1/2027	Distribution Substation	106.91	MW	0.00	0.00	0.00	1.67	4.13	0.00%	0.00%	0.00%	1.56%	3.86%
GNA_2025_579	Aqueduct 115/12 (D)	Penstock	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	1.59	1.61	1.65	1.70	1.74					
GNA_2025_580	Aqueduct 115/12 (D)	Sluice	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	8.30	MW	2.65	1.85	1.87	2.28	2.39	31.93%	22.29%	22.53%	27.47%	28.80%
GNA_2025_581	Aqueduct 115/12 (D)	Tunnel	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.00	5.89	8.43	11.00					
GNA_2025_582	Aqueduct 115/12 (D)	Turbine	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder	8.96	MW	0.22	0.20	0.20	0.22	0.22	2.46%	2.23%	2.23%	2.46%	2.46%
GNA_2025_583	Hesperia 115/12 (D)	Mesquite	Capacity	Demand Growth	12/31/2026	Distribution Feeder	11.96	MW	0.00	6.70	28.92	55.92	78.00	0.00%	56.02%	241.81%	467.56%	652.17%
GNA_2025_584	Hesperia 115/12 (D)	Mesquite	Capacity (UCT)	Demand Growth	6/1/2029	Distribution Feeder	10.11	MW	0.00	3.76	14.87	28.39	28.50	0.00%	32.58%	128.86%	246.44%	247.83%
GNA_2025_585	Rancho 33/12 (D)	Knolls	Capacity (UCT)	Demand Growth	9/1/2025	Distribution Feeder		MW	5.98	5.87	5.78	5.72	5.67					
GNA_2025_586	Rancho 33/12 (D)	Lakota	Capacity (UCT)	Demand Growth	9/1/2025	Distribution Feeder		MW	0.20	0.04	1.78	1.65	1.57					
GNA_2025_587	Rancho 33/12 (D)	Marianna	Capacity (UCT)	Demand Growth	9/1/2025	Distribution Feeder	10.11	MW	0.09	0.00	0.63	0.28	0.09	0.87%	0.00%	6.10%	2.68%	0.86%
GNA_2025_588	Rancho 33/12 (D)	Yucca Loma	Capacity (UCT)	Demand Growth	9/1/2025	Distribution Feeder	7.91	MW	0.48	0.00	0.00	0.00	0.00	5.58%	0.00%	0.00%	0.00%	0.00%
GNA_2025_589	Roadway 115/12 (D)	Caterpillar	Capacity (UCT)	Demand Growth	1/1/2027	Distribution Feeder		MW	0.93	2.43	2.41	2.39	2.37					
GNA_2025_590	Roadway 115/12 (D)	International	Capacity (UCT)	Demand Growth	1/1/2027	Distribution Feeder		MW	0.91	0.87	0.80	0.74	0.65					
GNA_2025_591	Roadway 115/12 (D)	Pegaso	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.00	1.98	6.07	7.00					
GNA_2025_592	Roadway 115/12 (D)	Pegaso	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.00	11.14	2.92	2.92					
GNA_2025_593	Roadway 115/12 (D)	Peterblitt	Capacity (UCT)	Demand Growth	1/1/2027	Distribution Feeder	8.00	MW	3.22	3.02	5.01	4.31	3.51	40.25%	37.75%	62.63%	53.88%	43.88%
GNA_2025_594	Savage 115/12 (D)	Frontage	Reliability, Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	0.65	0.73	0.82	0.99	0.71					
GNA_2025_595	Savage 115/12 (D)	Hatchery	Capacity (UCT)	Demand Growth	12/31/2025	Distribution Feeder		MW	2.74	2.65	0.43	0.35	0.28					
GNA_2025_596	Savage 115/12 (D)	Prayer	Capacity (UCT)	Demand Growth	12/31/2025	Distribution Feeder	10.24	MW	0.57	0.54	0.80	0.78	0.76	5.43%	5.			

GNA ID	Substation / Subtransmission Line	Circuit	Distribution Service Required	Primary Driver of Grid Need	Operating Date	Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹				
						Element	Rating	Units	2025 ^A	2026 ^A	2027 ^A	2028 ^A	2029 ^A	2025 ^B	2026 ^B	2027 ^B	2028 ^B	2029 ^B
GNA_2025_601	Victor 115/33 (D)	Burnetta	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	3.44	10.70	14.11	13.16	13.17					
GNA_2025_602	Victor 115/33 (D)	Burnetta	Voltage	Demand Growth	6/1/2026	Distribution Feeder		Vpu	0.96	0.89	0.89	0.89	0.89					
GNA_2025_603	Victor 115/33 (D)	Russ Boyd	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.84	6.05	6.05	5.93					
GNA_2025_604	Victor 115/33 (D)	Russ Boyd	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	1.68	17.84	6.34	6.22					
GNA_2025_605	Victor 115/33 (D)	Sunny Vista	Capacity	Demand Growth	6/1/2028	Distribution Feeder	32.93	MW	0.00	0.00	1.44	1.92	2.16	0.00%	0.00%	4.37%	5.83%	6.56%
GNA_2025_606	Victorville 33/12 (D)	La Paz	Capacity	Demand Growth	6/1/2028	Distribution Feeder		MW	0.00	0.00	0.00	0.00	0.60					
GNA_2025_607	Victorville 33/33 (D)	Nisqually	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder	1.80	MVAR	1.79	1.74	1.87	1.79	1.75	99.44%	96.67%	103.89%	99.44%	97.22%
GNA_2025_608	Victorville 33/33 (D)	Seneca	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	1.85	1.81	1.94	1.90	1.86					
GNA_2025_609	Limestone 66/12 (D)	Gold	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder	0.60	MVAR	5.94	5.91	5.88	5.85	5.83	990.00%	985.00%	980.00%	975.00%	971.67%
GNA_2025_610	Limestone 66/12 (D)	Slate	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder	10.33	MW	0.00	0.00	0.00	1.20	1.22	0.00%	0.00%	0.00%	10.03%	10.20%
GNA_2025_611	Viejo 66/12 (D)	Futuro	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.02	0.09	0.20	0.35	0.57					
GNA_2025_612	Bryan 66/12 (D)	Hudson	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	3.26	3.23	3.20	3.18	3.15					
GNA_2025_613	Canyon 66/12 (D)	Weir	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	0.61	0.58	0.56	0.53	0.51					
GNA_2025_614	La Veta 66/12 (D)	Mable	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	0.42	0.41	0.41	0.41	0.42					
GNA_2025_615	Modena 66/12 (D)	Arabia	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	10.93	MW	0.15	0.24	0.37	0.50	0.67	1.37%	2.19%	3.38%	4.56%	6.13%
GNA_2025_616	Modena 66/12 (D)	Iran	Capacity	Demand Growth	6/1/2028	Distribution Feeder		MW	0.20	0.26	0.35	0.43	0.54					
GNA_2025_617	Modena 66/12 (D)	Iran	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	1.37	1.46	1.57	1.65	1.78					
GNA_2025_618	Modena 66/12 (D)	Korea	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	9.96	MW	1.26	0.11	0.43	0.54	0.67	11.83%	1.08%	4.32%	5.42%	6.73%
GNA_2025_619	Modena 66/12 (D)	Persia	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	10.07	MW	1.37	1.41	1.50	1.61	1.76	13.52%	13.92%	14.84%	15.96%	17.48%
GNA_2025_620	Modena 66/12 (D)	Qatar	Capacity	Demand Growth	6/1/2027	Distribution Feeder	11.96	MW	0.00	0.00	0.00	0.00	0.14	0.00%	0.00%	0.00%	0.00%	1.17%
GNA_2025_621	Modena 66/12 (D)	Siam	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.09	0.46	0.57	0.70					
GNA_2025_622	Modena 66/12 (D)	Sudan	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.39	0.76	0.80	0.87					
GNA_2025_623	Modena 66/12 (D)	Taiwan	Capacity	Demand Growth	6/1/2028	Distribution Feeder		MW	0.00	0.00	0.00	5.04	6.02					
GNA_2025_624	Modena 66/12 (D)	Taiwan	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.00	1.89	7.52	8.50					
GNA_2025_625	Villa Park 66/12 (D)	Baylor	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	11.96	MW	0.72	0.80	0.91	1.04	1.20	6.02%	6.69%	7.61%	8.70%	10.03%
GNA_2025_626	Villa Park 66/12 (D)	Racine	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	9.76	MW	0.46	0.48	0.48	0.50	0.52	4.71%	4.92%	4.91%	5.11%	5.32%
GNA_2025_627	Villa Park 66/12 (D)	Rutledge	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder	10.63	MW	0.09	0.11	0.15	0.24	0.30	0.85%	1.03%	1.41%	2.25%	2.81%
GNA_2025_628	Washington 66/12 (D)	null	Capacity	Demand Growth	6/1/2026	Distribution Substation	54.70	MW	2.83	4.46	5.11	5.70	5.98	5.17%	8.15%	9.34%	10.42%	10.93%
GNA_2025_629	Washington 66/12 (D)	Offside	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	0.56	1.52	2.48	2.56					
GNA_2025_630	Washington 66/12 (D)	Pass	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	3.08	4.00	4.86	4.78	4.86					
GNA_2025_631	Calectric 115/33 (D)	Verdemont	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	2.83	2.79	2.75	2.71	0.63					
GNA_2025_632	Chillon P.T. 12/2.4 (A)	Chillon	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder	0.08	MVAR	0.12	0.12	0.12	0.12	0.12	160.00%	160.00%	160.00%	160.00%	160.00%
GNA_2025_633	Dalba P.T. 12/2.4 (A)	Dalba	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	0.13	0.13	0.14	0.14	0.04					
GNA_2025_634	Green Bear P.T. 12/2.4 (A)	Green Bear	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder	0.08	MVAR	0.26	0.27	0.28	0.29	0.31	346.67%	360.00%	373.33%	386.67%	413.33%
GNA_2025_635	Kuffel P.T. 12/2.4 (A)	Kuffel	Capacity	Demand Growth	6/1/2025	Distribution Feeder	0.94	MW	0.06	0.07	0.08	0.09	0.10	6.38%	7.45%	8.51%	9.57%	10.64%
GNA_2025_636	Kuffel P.T. 12/2.4 (A)	Kuffel	Voltage	Demand Growth	6/1/2025	Distribution Feeder	1.00	Vpu	0.84	0.84	0.84	0.84	0.83	84.00%	84.00%	84.00%	84.00%	83.00%
GNA_2025_637	Luring P.T. 12/2.4 (A)	Luring	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder	0.08	MVAR	0.11	0.11	0.12	0.12	0.12	146.67%	146.67%	160.00%	160.00%	160.00%
GNA_2025_638	Maxwell 115/12 (D)	null	Capacity	Demand Growth	6/1/2026	Distribution Substation	107.00	MW	3.37	5.33	8.80	11.61	11.96	3.15%	4.98%	8.22%	10.85%	11.18%
GNA_2025_639	Mt. Vernon 33/4.16 (D)	Carey	Capacity	Demand Growth	5/1/2025	Distribution Feeder	2.39	MW	0.08	0.09	0.11	0.14	0.14	3.35%	3.77%	4.60%	5.86%	5.86%
GNA_2025_640	Mt. Vernon 33/4.16 (D)	Cowen	Capacity	Demand Growth	6/1/2025	Distribution Feeder	2.39	MW	0.59	0.60	0.62	0.63	0.63	24.69%	25.10%	25.94%	26.36%	26.36%
GNA_2025_641	Oak Knoll P.T. 12/2.4 (A)	Oak Knoll	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder	0.08	MVAR	0.09	0.09	0.09	0.09	0.10	120.00%	120.00%	120.00%	120.00%	133.33%
GNA_2025_642	Pepper 115/12 (D)	Burgundy	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder		MW	0.07	0.00	0.00	3.96	3.83					
GNA_2025_643	Pepper 115/12 (D)	Lancers	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	10.33	MW	0.41	0.46	0.52	0.61	0.67	3.97%	4.45%	5.03%	5.91%	6.49%
GNA_2025_644	Pepper 115/12 (D)	Mateus	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	10.26	MW	1.41	1.41	1.46	1.50	1.54	13.74%	13.72%	14.20%	14.59%	14.98%
GNA_2025_645	Pepper 115/12 (D)	null	Capacity	Demand Growth	6/1/2028	Distribution Substation	95.08	MW	0.00	0.00	22.30	7.09	10.15	0.00%	0.00%	23.45%	7.46%	10.68%
GNA_2025_646	Pepper 115/12 (D)	Shiraz	Capacity (UCT)	Demand Growth	6/1/2028	Distribution Feeder	11.96	MW	1.80	1.78	1.78	1.78	4.72	15.05%	14.88%	14.88%	14.88%	39.46%
GNA_2025_647	Pepper 115/12 (D)	Zinfandel	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	2.61	2.57	2.57	2.54	2.57					
GNA_2025_648	Rialto 33/4.16 (D)	Love	Capacity	Demand Growth	12/31/2025	Distribution Feeder	1.88	MW	0.75	0.76	0.77	0.78	0.80	39.89%	40.43%	40.96%	41.49%	42.55%
GNA_2025_649	Shandin 115/12 (D)	Avanti	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	1.48	1.48	1.48	1.48	1.50					
GNA_2025_650	Shandin 115/12 (D)	Avanti	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	11.09	11.77	9.26	9.45	9.43					
GNA_2025_651	Shandin 115/12 (D)	Calstate	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	1.85	1.83	1.80	1.78	1.76					
GNA_2025_652	Shandin 115/12 (D)	Carmelita	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	8.87	MW	3.84	4.11	4.34	4.38	4.44	42.34%	45.87%	48.93%	49.38%	50.06%
GNA_2025_653	Shandin 115/12 (D)	Northpark	Capacity	Demand Growth	6/1/2027	Distribution Feeder		MW	3.00	2.89	2.30	2.35	2.41					
GNA_2025_654	Shandin 115/12 (D)	Northpark	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	18.92	16.88	6.45	6.53	6.67					
GNA_2025_655	Shandin 115/12 (D)	null	Capacity	Demand Growth	6/1/2027	Distribution Substation	94.54	MW	16.80	22.34	23.26	24.70	24.82	17.77%	23.63%	24.60%	26.13%	26.25%
GNA_2025_656	Shandin 115/12 (D)	Roi-Tan	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	0.37	0.35	0.37	0.41	0.46					
GNA_2025_657	Shandin 115/12 (D)	Sweetwater	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder	11.96	MW	1.59	1.63	1.67	1.74	1.80	13.29%	13.63%	13.96%	14.55%	15.05%
GNA_2025_658	Shandin 115/12 (D)	Varsity	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	0.00	1.35	0.76	0.74	0.67					
GNA_2025_659	Sixteenth Street 33/12 (D)	Potato	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	0.01	0.02	0.50	0.50	0.51					
GNA_2025_660	Sixteenth Street 33/12 (D)	Raisin	Reactive Power	Demand Growth	8/31/2026	Distribution Feeder		MVAR	1.33	1.31	1.30	1.31	1.32					
GNA_2025_661	Bloomington 66/12 (D)	Bobber	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	6.66	6.87	7.17	1.00	1.11					
GNA_2025_662	Bloomington 66/12 (D)	Bombay	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	1.22	6.43	10.67	9.78	7.28					
GNA_2025_663	Bloomington 66/12 (D)	Flatcar	Capacity (UCT)	Demand Growth	12/31/2025	Distribution Feeder		MW	10.76	16.35	14.62	14.62	7.58					
GNA_2025_664	Bloomington 66/12 (D)	Highball	Capacity	Demand Growth	12/31/2025	Distribution Feeder		MW	0.56	1.74	1.52	1.30	1.14					
GNA_2025_665	Bloomington 66/12 (D)	Highball	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	2.76	0.70	0.61	0.52	0.43					
GNA_2025_666	Bloomington 66/12 (D)	Hopper	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	5.98	6.08	6.11	1.02	1.35					
GNA_2025_667	Bloomington 66/12 (D)	null	Capacity	Demand Growth	6/1/2027	Distribution Substation	143.80	MW	17.38	26.67	52.13	52.31	6.39	12.09%	18.55%	36.25%	36.38%	4.44%
GNA_2025_668	Bloomington 66/12 (D)	Redball	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	2.18	0.00	2.30	3.00	2.60					
GNA_2025_669	Bloomington 66/12 (D)	Spike	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	1.78	1.33	1.78	1.78	1.78					
GNA_2025_670	Bloomington 66/12 (D)	Stockcar	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder	8.76	MW	7.14	7.30	6.15	2.52	2.65	72.63%	74.26%	62.76%	28.77%	29.88%
GNA_2025_671	Bloomington 66/12 (D)	Streamliner	Capacity (UCT)	Demand Growth	12/31/2026	Distribution Feeder		MW	0.00	0.00	3.6							

GNA ID	Substation / Subtransmission Line	Circuit	Distribution Service Required	Primary Driver of Grid Need	Operating Date	Equipment			Deficiency (MW, MVAR, or Vpu) ¹					Deficiency (%) ¹				
						Element	Rating	Units	2025 ^A	2026 ^A	2027 ^A	2028 ^A	2029 ^A	2025 ^B	2026 ^B	2027 ^B	2028 ^B	2029 ^B
GNA_2025_676	Colton 66/12 (D)	Domic	Voltage	Demand Growth	9/24/2026	Distribution Feeder		Vpu	0.92	0.92	0.92	0.92	0.92					
GNA_2025_677	Colton 66/12 (D)	Globe Mills	Capacity (UCT)	Demand Growth	6/1/2026	Distribution Feeder		MW	9.83	10.50	10.50	3.28	3.30					
GNA_2025_678	Colton 66/12 (D)	null	Capacity	Demand Growth	6/1/2026	Distribution Substation		72.59 MW	0.00	0.00	0.20	9.20	9.41	0.00%	0.00%	0.28%	12.67%	12.96%
GNA_2025_679	Colton 66/12 (D)	Preston	Capacity	Demand Growth	6/1/2026	Distribution Feeder		10.43 MW	2.91	3.52	2.65	2.78	2.89	27.90%	33.75%	22.16%	23.24%	24.16%
GNA_2025_680	Colton 66/12 (D)	Preston	Voltage	Demand Growth	6/1/2023	Distribution Feeder		1.00 Vpu	0.94	0.93	0.93	0.93	0.93	94.00%	93.00%	93.00%	93.00%	93.00%
GNA_2025_681	Glen Avon 66/12 (D)	Anderson	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	4.09	48.64	48.48	17.22	19.21					
GNA_2025_682	Glen Avon 66/12 (D)	Blackhills	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	3.56	5.86	5.39	8.65	8.61					
GNA_2025_683	Glen Avon 66/12 (D)	Galena	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	2.48	2.57	3.00	3.11	3.24					
GNA_2025_684	Glen Avon 66/12 (D)	Gowan	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	2.61	2.59	3.41	3.28	4.54					
GNA_2025_685	Glen Avon 66/12 (D)	Kraft	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	0.11	0.37	0.39	0.17	0.26					
GNA_2025_686	Glen Avon 66/12 (D)	null	Capacity	Demand Growth	12/31/2026	Distribution Substation		95.59 MW	17.61	17.61	26.30	21.83	25.22	18.42%	18.42%	27.51%	20.79%	24.02%
GNA_2025_687	Glen Avon 66/12 (D)	Texfi	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	10.75	15.05	14.90	2.67	2.67					
GNA_2025_688	Vista 'A' 220/66 (S)	null	Reliability, Capacity	Demand Growth	6/1/2029	Subtrans. Substation		336.00 MW	0.00	11.10	22.00	32.90	38.20	0.00%	3.30%	6.55%	9.79%	11.37%
GNA_2025_689	Cortez 66/12 (D)	null	Capacity	Demand Growth	6/1/2026	Distribution Substation		111.63 MW	0.00	0.00	0.00	0.43	1.00	0.00%	0.00%	0.00%	0.39%	0.90%
GNA_2025_690	Industry 66/12 (D)	Conveyor	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	1.91	1.90	1.89	1.89	1.89					
GNA_2025_691	Nogales 66/12 (D)	Gartel	Capacity (UCT)	Demand Growth	6/1/2027	Distribution Feeder		MW	5.15	9.03	9.17	11.22	11.39					
GNA_2025_692	Proctor 66/12 (D)	Zeus	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	1.38	1.38	1.38	1.38	1.39					
GNA_2025_693	Puente 66/12 (D)	Carr	Reactive Power	Demand Growth	8/31/2025	Distribution Feeder		MVAR	1.06	1.04	1.03	1.03	1.04					
GNA_2025_694	Puente 66/12 (D)	null	Capacity	Demand Growth	6/1/2026	Distribution Substation		MW	0.00	0.87	3.67	3.87	4.02					
GNA_2025_695	Walnut 66/12 (D)	Chella	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		10.33 MW	1.17	1.15	1.13	1.11	1.09	11.26%	11.09%	10.90%	10.72%	10.55%
GNA_2025_696	Walnut 66/12 (D)	Grazide	Capacity	Demand Growth	6/1/2026	Distribution Feeder		MW	1.91	2.13	2.11	2.09	2.07					
GNA_2025_697	Walnut 66/12 (D)	Grazide	Capacity (UCT)	Demand Growth	6/1/2025	Distribution Feeder		MW	3.91	3.91	3.93	4.02	4.09					
GNA_2025_698	Goldtown 66/12 (D)	Boxcar	Capacity	Demand Growth	12/31/2026	Distribution Feeder		MW	0.00	0.00	0.00	2.86	5.18					
GNA_2025_699	Goldtown 66/12 (D)	Carbon	Capacity	Demand Growth	12/31/2026	Distribution Feeder		MW	0.66	4.14	6.60	8.26	8.08					
GNA_2025_700	Goldtown 66/12 (D)	null	Capacity	Demand Growth	12/31/2026	Distribution Substation		MW	0.14	4.22	8.44	14.44	16.52					
GNA_2025_701	Monolith 66/12 (D)	Tomahawk	Capacity	Demand Growth	6/1/2025	Distribution Feeder		MW	0.91	0.87	0.00	0.00	0.00					

[illegible]

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PENDING LOADS (MW)		2020		2021		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	
EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)	TE (MW)	EE (MW)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

GNA ID	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	2025												2026												2027																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					Residential (PW (MW))	EE (PW (MW))	TE (PW (MW))	Pending Loads (MW)	BE (PW (MW))	EE (PW (MW))	TE (PW (MW))	Total DER Growth (PW (MW))	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential (PW (MW))	Non-Residential (PW (MW))	TE (PW (MW))	Pending Loads (MW)	BE (PW (MW))	EE (PW (MW))	TE (PW (MW))	Total DER Growth (PW (MW))	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential (PW (MW))	Non-Residential (PW (MW))	TE (PW (MW))	Pending Loads (MW)	BE (PW (MW))	EE (PW (MW))	TE (PW (MW))	Total DER Growth (PW (MW))																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
GNA 2025_134	13.8355	82.75	71.12%	116.35	-0.2201	-11.4999	-7.9866	5.4266	0.5602	0.8469	0.0314	-17.6303	22.2453	74.96	63.65%	116.35	-0.7222	-23.1553	-11.8864	1.1343	0.7399	0.0993	-0.0801	33.9315	-22.2453	57.85	49.72%	116.35	-1.2640	-36.1290	-14.6701	1.7793	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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

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Facility	GNA ID	2025												2026												2027												
		Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential (MW)	Commercial (MW)	EE (MW)	TE (MW)	Pending Loads (MW)	BE (MW)	ES (MW)	Total DER Growth (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential (MW)	Commercial (MW)	EE (MW)	TE (MW)	Pending Loads (MW)	BE (MW)	ES (MW)	Total DER Growth (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential (MW)	Commercial (MW)	EE (MW)	TE (MW)	Pending Loads (MW)	BE (MW)	ES (MW)	Total DER Growth (MW)	
GNA 2025_286	0.0000	118.02	91.60%	144.53	0.3426	-0.1846	-0.1974	0.4110	0.0000	0.1156	0.0399	0.2660	0.9338	122.45	94.72%	144.53	0.2591	0.3306	0.3333	0.8518	0.0000	0.4014	0.0912	0.0000	0.4014	9.5048	124.51	95.30%	144.53	0.2453	0.3168	0.3333	0.8518	0.0000	0.4014	0.0912	0.0000	
	0.0000	13.14	91.61%	14.31	-0.0022	-0.0041	-0.0002	0.0147	0.0000	0.0002	-0.0045	-0.1159	0.0000	13.14	91.61%	14.31	-0.0014	-0.0037	0.0103	0.0000	0.0053	-0.0095	-0.1112	0.0000	0.2161	0.0000	0.0002	2.2402	57.57	80.12%	71.66	-0.3817	-0.1122	-0.2252	1.4386	0.0000	0.2161	0.0000
	0.0000	119.17	89.14%	119.17	0.4242	1.2743	0.2802	0.2027	0.0000	0.0658	0.0229	0.2456	0.1941	109.20	89.02%	131.17	0.2815	0.4881	0.4353	0.9817	0.0000	0.1678	0.0000	0.0000	0.0000	106.23	89.14%	119.17	0.2802	0.4881	0.4353	0.9817	0.0000	0.1678	0.0000	0.0000		
	0.0000	0.37	31.34%	1.17	0.0000	0.0000	-0.0005	0.0000	0.0000	0.0001	-0.0021	-0.0001	0.0001	0.37	31.38%	1.17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.37	30.90%	1.17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
	2.2402	55.48	77.40%	71.66	0.1654	0.3558	-0.0048	0.4806	0.0000	0.0000	0.1743	0.0007	0.2484	2.2402	55.35	77.21%	71.68	-0.3880	-0.1110	-0.1494	0.9520	0.0000	0.2261	0.0000	0.0002	2.2402	57.57	80.12%	71.66	-0.3817	-0.1122	-0.2252	1.4386	0.0000	0.2261	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	0.0000	0.0000	0.0000							0.0000	0.0000	0.0000	0.0000	
	5.5119	94.30	101.40%	83.18	0.8929	-0.5638	-0.4108	0.1261	0.0000	0.0075	0.0116	1.4623	10.2605	99.50	100.77%	83.18	-0.0664	-0.0010	-0.5665	0.2583	0.0000	0.2400	0.0012	-2.1744	14.4631	104.42	112.28%	83.18	-1.0473	-1.5884	-0.8902	0.0000	0.0000	0.2400	0.0012			
	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	0.0000	0.0000							0.0000	0.0000	0.0000	0.0000	
	0.0000	6.30	42.34%	0.88	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.30	42.71%	0.88	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.30	43.39%	0.88	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
	5.0143	60.67	83.62%	72.85	0.2963	-0.4735	-0.1794	0.3295	0.0000	0.0089	0.0033	0.0885	0.6143	60.84	83.57%	72.85	-0.4191	-0.1473	-0.1336	0.6751	0.0000	0.1027	0.0071	-0.1021	71.60	63.23	68.80%	72.85	-0.4084	-0.1210	-0.1194	1.0068	0.0000	0.1027	0.0071			
1.4461	14.46			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.4461			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.4461							0.0000	0.0000	0.0000	0.0000			
GNA 2025_286	0.0000	36.86	67.01%	55.15	0.1780	-0.0470	-0.0086	0.1487	0.0000	0.0004	0.0004	0.0079	0.0114	0.0000	37.25	67.56%	55.15	-0.0486	-0.0078	-0.1179	0.3159	0.0000	0.0365	0.1223	-0.0851	0.1927	0.0000	37.68	68.28%	55.15	-0.4854	-0.1310	-0.1099	0.4966	0.0000	0.0365	0.1223	
	0.0000	13.55	101.94%	13.25	-0.1105	-0.0091	-0.0258	0.1116	0.0000	0.0000	0.0000	0.0000	0.0000	13.44	101.22%	13.25	-0.3847	-0.0167	-0.0467	0.2425	0.0000	0.1008	-0.0078	-0.1126	0.0000	13.37	100.70%	13.25	-0.4604	-0.0243	-0.0170	0.3020	0.0000	0.1008	-0.0078			
	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	0.0000							0.0000	0.0000	0.0000	0.0000		
	0.7863	72.31	28.68%	25.22	0.0464	-0.0041	-0.0034	0.0000	0.0000	0.0000	0.0078	0.0109	0.0488	0.7863	7.09	28.10%	25.22	-0.1788	-0.0059	-0.0177	0.0133	0.0000	0.0188	-0.0137	-0.1140	0.7863	6.94	27.50%	25.22	-0.1694	-0.0079	-0.0202	0.0000	0.0000				
	0.0000	0.17	68.51%	13.30	0.0005	-0.0003	-0.0040	0.0760	0.0000	0.0000	0.0114	-0.0039	0.0518	0.0000	9.26	69.19%	13.30	-0.0030	-0.0103	-0.0133	0.0803	0.0000	0.0482	0.0000	0.1337	0.0000	9.37	70.00%	13.30	-0.0030	-0.0104	-0.0046	0.0000	0.0000				
	1.5012	14.46	90.31%	10.42	0.3961	-0.1189	-0.1210	0.7184	0.0000	0.0178	-0.0409	0.1062	0.1424	1.5212	94.79	90.43%	10.42	-0.8001	-0.2331	-0.3534	1.4822	0.0000	0.3032	-0.0005	0.3863	1.5212	95.23	90.80%	10.42	-1.2714	-0.4365	-0.5100	2.0800	0.0000	0.3032	-0.0005		
	0.0000	9.88	72.43%	10.42	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9.88	72.43%	10.42	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9.88	72.43%	10.42	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
	0.0000	8.66	83.34%	10.39	0.8663	-0.0271	-0.0021	0.0233	0.0000	0.0000	0.0000	0.0000	0.0000	8.66	83.34%	10.39	-0.1218	-0.0044	-0.0079	0.0489	0.0000	0.0000	0.0000	0.0000	0.0000	8.66	83.34%	10.39	-0.1378	-0.0485	-0.0500	0.0761	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	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	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	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			
GNA 2025_64	0.0000	140.59	97.70%	145.39	0.4621	-0.0460	-0.2919	0.9011	0.0000	0.0000	0.0000	0.0000	0.0000	140.28	97.86%	145.39	0.3945	-0.1120	-0.0482	0.9090	0.0000	0.0116	0.0000	-0.1939	3.5472	147.97	101.27%	145.39	0.3806	-0.1814	-0.2021	2.4006	0.0000	0.0116	0.0000			
	0.0000	1.15	51.30%	0.45	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.15	52.61%	0.45	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.15	50.45%	0.45	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
	0.1829	33.45	91.51%	36.40	0.0759	-0.0270	-0.0078	0.0787	0.0000	0.0043	0.0003	-0.1112	0.1829	33.49	92.01%	36.40	-0.0912	-0.0042	-0.1138	0.1843	0.0000	0.1087	-0.0047	-0.0769	0.6489	34.72	95.38%	36.40	-0.0802	-0.0838	-0.1038	0.2374	0.0000	0.1087	-0.0047			
	0.0000	4.40	78.60%	0.81	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.40	79.21%	0.81	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.40	78.60%	0.81	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
	0.0000	3.30	30.47%	0.81	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.30	31.04%	0.81	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.30													

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2020																									2021																									Deficiency (MW)									
ES (MW)	Total DER Growth (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residual PV (MW)	EE (MW)	EE (MW)	TE (MW)	Pending Loads (MW)	EE (MW)	ES (MW)	Total DER Growth (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residual PV (MW)	EE (MW)	EE (MW)	TE (MW)	Pending Loads (MW)	EE (MW)	ES (MW)	Total DER Growth (MW)	2025	2026	2027	2028	2029																													
-0.0003	-0.0005	1.8093	9.07	75.87%	11.36	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000	0.00	0.00	0.00	-0.1078	-0.0299	-0.0250	0.1332	0.0000	0.0071	-0.0007	-0.0589	1.8093	9.14	76.42%	11.36	-0.1178	-0.0307	-0.0638	0.1701	0.0000	0.1495	-0.0545	0.0995	0.00	0.00	0.00	0.00	0.00																													
-0.0000	-0.0000	0.0000																																																									

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ID	Total DER Growth (%)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (%)	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								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	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential PV (MW)	EE (MW)	ES (MW)	Pending Loads (MW)	EE (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)	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)	Pending Loads (MW)	S													
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	1.2500	0.00	40.42%	16.18	-0.0282	-0.0135	-0.0076	-0.0121	0.0000	0.0008	0.0014	-0.0031	2.5518	9.51	57.86%	16.18	-0.0389	-0.0269	-0.0153	0.0040	0.0000	0.0199	-0.0027	-0.0115	3.7527	10.67	65.91%	16.18	-0.0509	-0.0421	-0.0295	0.0278	0.0000									
	0.0000	0.00	47.48%	16.18	-0.0582	-0.0307	-0.0135	-0.0772	0.0000	0.0181	-0.0001	-0.0048	0.0000	10.47	87.60%	16.18	-0.1156	-0.0841	-0.0242	0.0040	0.0000	0.0389	-0.0002	-0.0555	0.0000	10.50	87.61%	11.96	-0.0809	-0.0721	-0.0583	0.2398	0.0000									
	0.0000	0.00	47.48%	16.18	0.0000	-0.0172	-0.0100	-0.0000	0.0000	0.0000	0.0000	-0.0000	1.6211	8.66%	16.18	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										
	0.1875	-0.0170	-0.0092	0.0136	0.0185	0.0000	0.0059	-0.0004	-0.0008	0.0185	0.1874	-0.0000	0.0000	0.0000	-0.0389	-0.0185	-0.0231	0.0086	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	9.10	75.29%	11.96	-0.4402	-0.1736	-0.0258	-0.1138	0.0000	0.0126	-0.0007	-0.0369	0.0000	8.91	75.31%	11.96	-0.0586	-0.0383	-0.0418	0.0008	0.0000	0.0389	-0.0010	-0.0310	0.0000	9.84	75.38%	11.96	-0.0706	-0.0544	-0.0711	0.1048	0.0000									
	0.0000	9.10	84.64%	11.96	-0.4402	-0.1736	-0.0258	-0.1138	0.0000	0.0126	-0.0007	-0.0369	0.0000	8.91	84.68%	11.96	-0.0586	-0.0383	-0.0418	0.0008	0.0000	0.0389	-0.0010	-0.0310	0.0000	9.84	84.71%	11.96	-0.0706	-0.0544	-0.0711	0.1048	0.0000									
	0.1818	-0.0000	0.0000	0.0004	0.0047	0.0000	0.0006	-0.0012	0.0000	0.0000	0.0000	-0.0000	1.4519	11.43	90.30%	11.96	0.0000	0.0000	0.0005	0.0008	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									
	0.1141	-0.0000	0.0000	0.0004	0.0047	0.0000	0.0006	-0.0012	0.0000	0.0000	0.0000	-0.0000	1.4519	11.43	90.30%	11.96	0.0000	0.0000	0.0005	0.0008	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									
CNA 002	0.0000	-0.0000	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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									
CNA 003	0.0000	-0.0000	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	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								
CNA 004	0.0000	-0.0000	-0.0001	0.0006	0.0004	0.0000	0.0012	-0.0008	-0.0004	-0.0004	1.1414	11.49	95.30%	11.96	-0.0603	-0.0392	-0.0225	0.0012	0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0													

[illegible]

Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	2025										Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	2026										Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	2027															
				Residential PV (MW)	Non-Residential PV (MW)	EE (MW)	TE (MW)	Pending Loads (MW)	EE (MW)	ES (MW)	ES (MW)	Total DER Growth (MW)	Residential PV (MW)					Non-Residential PV (MW)	EE (MW)	TE (MW)	Pending Loads (MW)	EE (MW)	ES (MW)	ES (MW)	Total DER Growth (MW)	Residential PV (MW)	Non-Residential PV (MW)					EE (MW)	TE (MW)	Pending Loads (MW)	EE (MW)	ES (MW)	ES (MW)	Total DER Growth (MW)									
7.2526	0.0000	0.0000	0.0000	-0.9537	-0.0265	-0.9537	0.0276	0.0124	0.0101	-0.0003	-0.9561	7.9393	-0.8665	-0.9532	-0.0434	0.0675	0.0124	0.0306	-0.0005	-0.9561	7.9393	-0.8649	-0.9527	-0.0640	0.0992	0.0124	0.0584	-0.8649	-0.9527	-0.0640	0.0992	0.0124	0.0584	-0.8649	-0.9527	-0.0640	0.0992	0.0124	0.0584	-0.8649	-0.9527	-0.0640	0.0992				
6.2217	0.0000	0.0000	0.0000	-0.9537	-0.0265	-0.9537	0.0276	0.0124	0.0101	-0.0003	-0.9561	7.9393	-0.8665	-0.9532	-0.0434	0.0675	0.0124	0.0306	-0.0005	-0.9561	7.9393	-0.8649	-0.9527	-0.0640	0.0992	0.0124	0.0584	-0.8649	-0.9527	-0.0640	0.0992	0.0124	0.0584	-0.8649	-0.9527	-0.0640	0.0992	0.0124	0.0584	-0.8649	-0.9527	-0.0640	0.0992				
1.9944	14.26	88.17%	16.18	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	5.50	61.65%	9.57	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380
0.0000	0.0000	0.0000	0.0000	-0.9088	-0.0440	-0.9133	0.0772	0.0000	0.0116	-0.0049	-0.9079	1.0044	13.36	-0.9038	-0.0483	-0.9121	0.1579	0.0000	0.0408	-0.0107	-0.9130	1.9944	15.88	85.21%	16.18	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802	-0.9037	-0.1214	-0.9047	0.2380	0.0000	0.0802</										

[illegible]

CNA ID	2025												2026												2027																												
	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential PV (MW)	Non-Residential PV (MW)	EE (MW)	TE (MW)	Pending Loads (MW)	EE (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)	TE (MW)	Pending Loads (MW)	EE (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)	TE (MW)	Pending Loads (MW)	EE (MW)	ES (MW)	Total DER Growth (MW)																	
0.0000	10.88	90.96%	11.96	-0.0084	0.0024	-0.0189	0.0681	0.0000	0.0162	-0.0003	0.0083	0.0000	10.88	91.96%	11.96	-0.0052	-0.0048	-0.0331	0.1236	0.0000	0.0391	-0.0006	0.0090	0.0000	0.0000	10.98	91.85%	11.96	-0.0762	-0.0074	0.0490	0.1880	0.0000	0.0792	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000												
0.0000	10.88	90.96%	11.96	-0.0084	0.0024	-0.0189	0.0681	0.0000	0.0162	-0.0003	0.0083	0.0000	10.88	91.96%	11.96	-0.0052	-0.0048	-0.0331	0.1236	0.0000	0.0391	-0.0006	0.0090	0.0000	0.0000	10.98	91.85%	11.96	-0.0762	-0.0074	0.0490	0.1880	0.0000	0.0792	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000												
3.0700	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008														
0.8818	2.80	95.50%	2.93	-0.0008	0.0038	-0.0346	0.0000	0.0000	0.0016	0.0013	-0.0048	6.8111	2.80	95.50%	2.93	-0.0008	0.0038	-0.0346	0.0000	0.0016	0.0013	-0.0048	6.8111	2.80	95.50%	2.93	-0.0008	0.0038	-0.0346	0.0000	0.0016	0.0013	-0.0048	6.8111	2.80	95.50%	2.93	-0.0008	0.0038	-0.0346	0.0000	0.0016	0.0013	-0.0048	6.8111								
0.0000	2.80	95.50%	2.93	-0.0008	0.0038	-0.0346	0.0000	0.0000	0.0016	0.0013	-0.0048	6.8111	2.80	95.50%	2.93	-0.0008	0.0038	-0.0346	0.0000	0.0016	0.0013	-0.0048	6.8111	2.80	95.50%	2.93	-0.0008	0.0038	-0.0346	0.0000	0.0016	0.0013	-0.0048	6.8111	2.80	95.50%	2.93	-0.0008	0.0038	-0.0346	0.0000	0.0016	0.0013	-0.0048	6.8111								
0.0000	3.06	126.36%	2.36	-0.0184	0.0009	-0.0003	0.0280	0.0000	0.0040	0.0000	0.0007	0.0000	3.06	129.90%	2.39	-0.0209	-0.0018	-0.0064	0.0430	0.0000	0.0157	0.0000	0.0049	0.0000	0.0000	3.19	49.58%	2.39	-0.0237	-0.0028	0.0009	0.0847	0.0000	0.0032	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000										
0.0000	3.76	31.48%	1.36	-0.0010	0.0140	-0.0097	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	3.76	35.53%	1.36	-0.0010	0.0140	-0.0097	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.08	19.58%	1.36	-0.0037	-0.0043	0.0229	0.0034	1.1531	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	3.76	31.48%	1.36	-0.0010	0.0140	-0.0097	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	3.76	35.53%	1.36	-0.0010	0.0140	-0.0097	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.08	19.58%	1.36	-0.0037	-0.0043	0.0229	0.0034	1.1531	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	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000									
0.0000	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000								
0.0000	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000								
0.0000	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000								
0.0000	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	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	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	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	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	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	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	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	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	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	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	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	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	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	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	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	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	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	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	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	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032	0.0000	0.0000	2.63	84.88%	2.39	-0.0765	-0.0040	0.0117	0.0242	0.0000	0.0034	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	2.34	93.91%	2.39	-0.0234	0.0002	-0.0044	0.0094	0.0000	0.0040	0.0000	0.0010	0.0000	2.34	94.39%	2.39	-0.0096	-0.0034	-0.0079	0.0240	0.0000	0.0149	-0.0013	0.0032																														

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	GNA_ID	2025										2026										2027													
		Base Demand (mm)	Cumulative Demand (mm)	Facility Loading (%)	Facility Loading Limit (mm)	Residential PV (mm)	EE (mm)	TE (mm)	Pending Loads (mm)	EE (mm)	EE (mm)	Total Generation (mm)	Base Demand (mm)	Cumulative Demand (mm)	Facility Loading (%)	Facility Loading Limit (mm)	Residential PV (mm)	EE (mm)	TE (mm)	Pending Loads (mm)	EE (mm)	EE (mm)	Total Generation (mm)	Base Demand (mm)	Cumulative Demand (mm)	Facility Loading (%)	Facility Loading Limit (mm)	Residential PV (mm)	EE (mm)	TE (mm)	Pending Loads (mm)	EE (mm)			
GNA_2025_01	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
GNA_2025_02	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
GNA_2025_03	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
GNA_2025_04	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203
	0.0000	0.0000	2.80	95.60%	2.93	-0.0322	-0.0001	-0.0040	0.0052	0.0000	0.0045	0.0000	-0.0006	0.0000	2.81	95.90%	2.93	-0.0345	-0.0002	-0.0072	0.0109	0.0000	0.0125	0.0000	-0.0185	0.0000	2.82	96.43%	2.93	-0.0374	-0.0003	-0.0108	0.0172	0.0000	0.0203

ES (MW)	Total DER Growth (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	2028										2039										Deficiency (MW)									
						Residential (MW)	Non-Residential (MW)	EE (MW)	TE (MW)	Pending Loads (MW)	BE (MW)	ES (MW)	Total DER Growth (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential (MW)	Non-Residential (MW)	EE (MW)	ES (MW)	Pending Loads (MW)	BE (MW)	ES (MW)	Total DER Growth (MW)	2025	2026	2027	2028	2029	2030	2031	2032	2033	
0.0000	0.0047	0.0000	2.05	97.21%	2.05	-0.208	-0.004	-0.014	0.007	0.000	0.043	0.000	-0.017	0.000	2.00	96.72%	2.00	0.045	0.000	-0.011	0.007	0.000	0.079	0.000	0.043	2.00	2.00	2.00	2.00	95.51%	95.51%	95.51%	95.51%	95.51%	
-0.0014	-0.002	0.000	-0.022	-0.020	0.000	-0.003	-0.012	-0.020	0.000	0.000	-0.020	-0.020	-0.006	0.000	-0.048	-0.020	-0.008	0.005	0.000	0.025	-0.005	0.000	0.025	0.000	-0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-0.0007	-0.205	2.521	0.177	14.00%	0.177	-0.235	-0.268	-0.150	0.185	0.000	0.158	-0.020	-0.225	2.521	0.000	-0.048	-0.268	-0.150	0.185	0.000	0.170	-0.045	0.000	0.170	0.000	0.202	0.170	2.00	2.00	2.00	2.00	95.51%	95.51%	95.51%	95.51%
0.0000	0.0000	0.0000	0.0000	0.00%	0.0000	-0.002	-0.002	-0.002	0.000	0.000	0.002	-0.002	-0.002	0.001	0.000	-0.002	-0.002	-0.002	0.000	0.000	0.001	-0.002	0.000	0.001	0.000	-0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-0.0021	-0.079	0.001	0.001	0.00%	0.001	-0.011	-0.002	-0.002	0.000	0.000	0.013	-0.002	-0.014	0.001	0.000	-0.002	-0.002	-0.002	0.000	0.000	0.001	-0.002	0.000	0.001	0.000	-0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.0125	0.0000	0.44	67.92%	0.44	-0.000	-0.007	-0.012	0.002	0.000	0.018	-0.001	-0.010	0.000	0.000	-0.001	-0.001	-0.001	0.000	0.000	0.002	-0.001	0.000	0.002	0.000	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0004	0.043	0.000	1.20	14.03%	1.20	-0.048	-0.073	-0.108	0.052	0.000	0.043	-0.010	-0.006	0.000	0.000	-0.048	-0.073	-0.108	0.047	0.000	0.076	-0.025	0.000	0.076	0.000	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-0.0011	-0.004	0.000	0.000	0.00%	0.000	-0.000	-0.000	-0.000	0.000	0.000	0.000	-0.000	-0.000	0.000	0.000	-0.000	-0.000	-0.000	0.000	0.000	0.000	-0.000	0.000	0.000	-0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.0028	0.000	0.38	26.81%	0.38	-0.000	-0.000	-0.004	0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	-0.000	-0.000	-0.000	0.000	0.000	0.000	-0.000	0.000	0.000	0.000	-0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-0.0117	-0.018	0.000	-0.029	-0.029	0.000	-0.029	-0.047	-0.029	0.041	0.000	0.008	-0.014	-0.009	0.000	0.000	-0.029	-0.047	-0.029	0.041	0.000	0.008	-0.014	-0.009	0.000	0.000	-0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.109	0.000	11.51	94.44%	11.51	-0.208	-0.004	-0.014	0.007	0.000	0.043	-0.002	-0.014	0.000	0.000	-0.208	-0.004	-0.014	0.007	0.000	0.043	-0.002	0.000	0.043	0.000	-0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-0.008	0.000	0.000	1.53	14.73%	1.53	-0.000	-0.000	-0.011	0.130	0.000	0.003	-0.011	0.143	0.000	0.000	-0.001	-0.011	-0.015	0.143	0.000	0.000	-0.015	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-0.008	0.076	0.000	0.30	69.90%	0.30	-0.184	-0.001	-0.001	0.042	0.000	0.184	-0.011	0.180	0.000	0.000	-0.187	-0.076	-0.151	0.187	0.000	0.076	-0.011	0.000	0.076	0.000	-0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-0.004	0.203	0.000	0.177	14.00%	0.177	-0.235	-0.268	-0.150	0.185	0.000	0.158	-0.020	-0.225	0.203	0.000	-0.048	-0.268	-0.150	0.185	0.000	0.170	-0.045	0.000	0.170	0.000	0.202	0.170	2.00	2.00	2.00	2.00	95.51%	95.51%	95.51%	95.51%
0.000	0.109	0.000	14.45	89.39%	14.45	-0.186	-0.001	-0.049	0.231	0.000	0.184	-0.027	0.201	0.000	0.000	-0.187	-0.109	-0.204	0.201	0.000	0.109	-0.045	0.000	0.109	0.000	-0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.119	0.000	8.22	68.74%	8.22	-0.158	-0.000	-0.000	0.341	0.000	0.002	-0.003	-0.160	0.000	0.000	-0.158	-0.000	-0.000	0.341	0.000	0.002	-0.003	-0.160	0.000	0.000	-0.158	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.001	0.000	3.26	111.44%	3.26	-0.085	-0.004	-0.015	0.140	0.000	0.060	-0.007	0.149	0.000	0.000	-0.085	-0.004	-0.015	0.149	0.000	0.060	-0.007	0.149	0.000	0.000	-0.085	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0023	2.689	0.388	0.183	98.26%	1.93	-0.120	-0.112	-0.008	0.144	0.000	0.007	-0.004	0.146	0.000	0.000	-0.120	-0.112	-0.008	0.146	0.000	0.007	-0.004	0.146	0.000	0.000	-0.120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.000	0.000	0.00	0.00%	0.00	-0.001	-0.001	-0.001	0.011	0.000	0.015	-0.003	0.008	0.000	0.000	-0.001	-0.001	-0.001	0.011	0.000	0.015	-0.003	0.008	0.000	0.000	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-0.0048	-0.118	1.724	0.000	0.00%	0.000	-0.232	-0.028	-0.059	0.089	0.000	0.182	-0.033	-0.191	1.724	0.000	-0.232	-0.028	-0.059	0.089	0.000	0.182	-0.033	-0.191	1.724	0.000	-0.232	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.000	0.000	0.00	0.00%	0.00	-0.002	-0.012	-0.003	0.004	0.000	0.000	-0.002	-0.002	0.000	0.000	-0.002	-0.012	-0.003	0.004	0.000	0.000	-0.002	-0.002	0.000	0.000	-0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-0.0015	0.040	0.000	2.76	94.31%	2.76	-0.025	-0.004	-0.004	0.050	0.000	0.005	-0.022	0.040	0.000	0.000	-0.025	-0.004	-0.004	0.050	0.000	0.005	-0.022	0.040	0.000	0.000	-0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-0.004	0.086	0.000	10.76	90.16%	11.46	-0.071	-0.024	-0.049	0.269	0.000	0.092	-0.010	0.248	0.000	0.000	-0.071	-0.024	-0.049	0.269	0.000	0.092	-0.010	0.248	0.000	0.000	-0.071	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.00	0.00%	0.00	-0.001	-0.001	-0.001	0.011	0.000	0.015	-0.003	0.008	0.000	0.000	-0.001	-0.001	-0.001	0.011	0.000	0.015	-0.003	0.008	0.000	0.000	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.009	0.000	2.04	81.39%	2.04	-0.140	-0.000	-0.000	0.196	0.000	0.064	0.003	0.195	0.000	0.000	-0.140	-0.000	-0.000	0.196	0.000	0.064	0.003	0.195	0.000	0.000	-0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.004	1.629	0.75	93.94%	10.43	-0.157	-0.049	-0.014	0.075	0.000	0.146	-0.007	-0.004	1.629	0.000	-0.157	-0.049	-0.014	0.075	0.000	0.146	-0.007	-0.004	1.629	0.000	-0.157	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	

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[illegible]

Fidcity	GAA ID	2020												2021												2022											
		Base Demand (MM\$)	Cumulative Demand (MM\$)	Facility Loading (%)	Facility Loading Limit (%)	Residential PV (MW)	EE (MW)	TE (MW)	Funding Loads (MM\$)	EE (MW)	ES (MW)	Total DER Growth (MW)	Base Demand (MM\$)	Cumulative Demand (MM\$)	Facility Loading (%)	Facility Loading Limit (%)	Residential PV (MW)	Non-Residential PV (MW)	EE (MW)	TE (MW)	Pending Loads (MW)	EE (MW)	ES (MW)	Total DER Growth (MW)	Base Demand (MM\$)	Cumulative Demand (MM\$)	Facility Loading (%)	Facility Loading Limit (%)	Residential PV (MW)	Non-Residential PV (MW)	EE (MW)	TE (MW)	Pending Loads (MW)	EE (MW)	ES (MW)	Total DER Growth (MW)	
Livermore	0.4895	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%	1.98	-0.0794	-0.0010	-0.0241	0.0853	0.0000	0.0424	-0.0080	0.0152	0.4860	1.85	90.42%	1.98	-0.0843	-0.0016	-0.0349	0.1283	0.0000	0.0900		
Livermore	0.0000	0.0000	1.92	96.72%	1.98	-0.0750	-0.0005	-0.0148	0.0418	0.0000	0.0153	-0.0063	-0.0395	0.4860	1.85	90.42%																					

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ES (MW)	Total DER Gen (MW)	2028										2039								Deficiency (MW)						
		Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential PV (MW)	Non-Residential PV (MW)	TE (MW)	Pending Loans (MW)	BE (MW)	Total DER Gen (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential PV (MW)	Non-Residential PV (MW)	EE (MW)	Pending Loans (MW)	BE (MW)	ES (MW)	2025*	2026*	2027*	2028*	2029*
0.0034	0.8508	0.0000				-1.1264	-0.0408	0.9238	0.2204	0.0000	0.1204	-0.0963	0.1225	0.0000		0.1095	-0.0507	0.9698	0.2841	0.0000	0.1855	0.0000	0.00	0.00	0.00	0.00
-0.0041	0.0513	0.0000	2.36	85.18%	2.39	-0.0482	-0.0040	-0.0128	0.0068	0.0000	0.0580	-0.0061	0.0745	0.0000	2.38	87.25%	2.39	-0.0611	-0.0048	-0.0081	0.1076	0.0000	0.0814	-0.0083	0.0986	0.0000
0.0029	0.0098	0.0000	1.63	97.27%	1.66	-0.0095	-0.0474	0.4704	0.2066	0.0000	0.0657	-0.0035	0.1585	0.0000	11.70	97.80%	11.96	-0.0171	0.0027	-0.0885	0.2633	0.0000	0.2266	-0.0049	0.2287	0.0000
0.0002	0.0489	0.0000				-0.0003	-0.0783	0.0353	0.0484	0.0000	0.0121	0.0004	-0.0003	0.0000			-0.0041	-0.0028	-0.0015	0.0000	0.0000	0.0000	0.00	0.00	0.00	0.00
-0.0011	0.0183	1.4414				-0.0486	-0.1887	-0.1070	0.1219	0.0000	0.0102	-0.0016	-0.0008	0.0000	1.4414			-0.0537	-0.2235	-0.1104	0.2753	0.0000	0.1548	-0.0021	0.0168	0.0000
0.0002	0.3138	0.7385				-0.0072	-0.1892	-0.1248	0.3526	0.8435	0.1971	-0.0678	0.3849	0.7385				-0.0223	-0.2008	-0.1588	0.4670	0.8435	0.2325	-0.1098	0.2735	0.0000
0.0008	0.0008	0.0000				-0.0077	-0.1144	-0.0881	0.0785	0.0000	0.0779	-0.0000	0.0779	0.0000	0.0000	0.0000	0.0000	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.00	0.00	0.00	0.00
0.0003	0.2186	0.7742				-0.2437	-0.0788	-0.0737	0.0454	0.0000	0.0885	-0.0050	-0.2703	0.7742				-0.3039	-0.1014	-0.0824	0.0680	0.0000	0.1282	-0.0069	-0.3184	0.0000
0.0002	0.0000	0.0000				-0.0078	-0.1154	-0.0417	0.1123	0.0000	0.0302	0.1123	0.1144	0.0000	0.0000	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				-0.0004	-0.0548	-0.0039	0.0220	0.0000	0.0874	-0.0006	-0.0003	0.0000	0.0000	0.0000	0.0000	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.00	0.00	0.00	0.00
0.0000	0.1878	0.0000				-0.0077	-0.1884	-0.1369	0.0735	0.0000	0.0119	-0.0000	-0.2448	0.0000	0.0000	0.0000	0.0000	-0.0072	-0.2520	-0.1615	0.0936	0.0000	0.0172	0.0000	-0.3099	0.0000
0.0023	0.0027	0.0000	10.75	99.90%	11.98	-0.1713	-0.0887	-0.0000	0.1027	0.0000	0.1387	-0.0000	-0.0038	0.0000	10.85	99.50%	11.98	-0.1833	-0.0888	-0.1023	0.1176	0.0000	0.0183	0.0156	0.0460	0.0000
0.0001	1.4774	0.0000				-1.1222	-0.1855	-0.1411	0.1385	0.0000	0.1686	-0.0427	0.0003	0.0000	1.4773	0.0000	0.0000	-0.1633	-0.2201	-0.1902	0.1761	1.6886	0.0814	0.0004	1.9339	0.0000
0.0001	0.2120	0.3310				-0.0191	-0.2046	-0.0814	0.0489	0.0000	0.0279	-0.0052	-0.2601	0.3310				-0.0236	-0.2392	-0.1018	0.0845	0.0000	0.0221	0.0000	-0.3898	0.773
0.0000	0.2389	0.0000				-0.0488	-0.2099	-0.0832	0.1389	0.0000	0.0600	-0.0103	0.1666	0.0000	0.0000	0.0000	0.0000	-0.4778	-0.1134	-0.1132	0.1716	0.0000	0.0000	0.00	0.00	0.00
0.0002	0.3158	0.0000				-0.1529	-0.2148	-0.1072	0.0517	0.0000	0.0373	-0.0013	0.0000	0.0000	0.0000	0.0000	0.0000	-0.1785	-0.2703	-0.1528	0.0670	0.0000	0.0062	0.0005	-0.4887	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	0.00	0.00	0.00	0.00
0.0003	0.0046	0.0000	0.00	0.31%	1.33	-0.0035	-0.0004	-0.0018	0.0060	0.0000	0.0046	-0.0003	0.0046	0.0000	0.00	0.00	0.0000	-0.0003	-0.0004	-0.0018	0.0060	0.0000	0.0046	-0.0003	0.0046	0.0000
0.0001	0.2268	0.7120				-0.0077	-0.2229	-0.1017	0.0248	0.0000	0.0101	-0.0001	-0.3013	0.7120				-0.0021	-0.2098	-0.1122	0.0237	0.0000	0.0148	0.0001	-0.3875	0.0000
0.0000	0.0000	0.0000	0.55	49.95%	1.19	-0.0188	-0.0008	-0.0004	0.0037	0.0000	0.0188	-0.0000	-0.0460	0.0000	0.00	0.00	0.0000	-0.0000	-0.0000	0.0037	0.0000	0.0000	0.00	0.00	0.00	0.00
0.0045	0.0592	0.0269	2.33	82.46%	2.71	0.0000	0.0000	0.0088	0.0593	0.0000	0.0452	-0.0002	0.0895	0.0269	2.71	0.0000	0.0000	-0.0000	-0.0007	0.0763	0.0000	0.0874	-0.0080	0.1159	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	0.00	0.00	0.00	0.00
-0.0026	0.1654	0.0000				-0.0390	-0.2459	-0.1344	0.1049	0.0000	0.0753	-0.0039	-0.2070	0.0000	0.0000	0.0000	0.0000	-0.0442	-0.3255	-0.1979	0.1837	0.0000	0.1073	-0.0053	-0.2519	0.0000
0.0008	0.1527	0.2678	10.90	91.19%	11.98	-0.2885	-0.1007	-0.0782	0.1547	0.0000	0.0845	-0.0012	-0.1574	0.1090	11.45	95.74%	11.98	-0.2521	-0.1332	-0.0958	0.1999	0.0000	0.1248	-0.0017	-0.1581	0.0000
0.0009	0.0046	0.0000	0.29	66.83%	2.39	-0.0038	-0.0020	-0.0032	0.0465	0.0000	0.0055	-0.0053	0.0059	0.0000	0.00	0.00	0.0000	-0.0000	-0.0000	0.0054	0.0000	0.0063	-0.0009	0.0063	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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
0.0000	0.0000	0.0000				-0.0000</																				

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Facility	GNA ID	2020										2021										2022																
		Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (MW)	Residential PV (MW)	ES (MW)	TE (MW)	Pending Losses (MW)	ES (MW)	ES (MW)	Total Der Growth (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (MW)	Facility Loading (MW)	Residential PV (MW)	Non-Residential PV (MW)	ES (MW)	TE (MW)	Pending Losses (MW)	ES (MW)	ES (MW)	Total Der Growth (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (MW)	Facility Loading (MW)	Residential PV (MW)	Non-Residential PV (MW)	ES (MW)	TE (MW)	Pending Losses (MW)	ES (MW)					
Oceiltill	0.0000	0.0000	2.81	95.88%	0.83	0.0029	-0.0016	-0.0054	0.0175	0.0000	0.0000	0.0054	-0.0001	0.0129	0.0000	2.83	96.53%	2.93	-0.0059	0.0032	-0.0098	0.0387	0.0000	0.0152	-0.0003	0.0329	0.0000	2.86	97.69%	2.93	-0.0093	-0.0049	-0.0143	0.0574	0.0000	0.0523		
Orkney	0.0000	0.0000	2.73	145.17%	1.83	0.0152	-0.0022	-0.0053	0.0054	0.0000	0.0000	0.0041	-0.0004	-0.0146	0.0000	2.73	145.32%	1.83	-0.0183	0.0000	-0.0044	-0.0089	0.0110	0.0000	0.0091	-0.0005	0.0120	0.0000	2.80	-0.0000	0.0000	-0.0044	-0.0059	-0.0101	0.0000	0.0001		
Orkney	12.8993	0.0000	2.80	95.24%	1.83	0.0001	-0.0050	-0.0439	0.0725	0.0000	0.0000	0.0130	-0.0209	0.0165	12.8993	0.0000	2.82	96.15%	2.93	-0.0001	0.0075	-0.0653	0.1480	0.0000	0.0030	-0.0208	0.0793	12.8993	0.0000	2.84	96.54%	2.93	-0.0107	-0.0000	-0.0056	0.0282	0.0000	0.0698
Orkney	0.0000	0.0000	2.75	145.17%	1.83	0.0000	-0.0029	-0.0029	0.0029	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.75	145.17%	1.83	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.75	145.17%	1.83	0.0000	0.0000	0.0000	0.0000		
Orkney	0.0000	0.0000	2.78	60.69%	2.83	0.0042	-0.0003	-0.0047	0.0261	0.0000	0.0000	0.0063	-0.0001	0.0217	0.0000	1.81	62.84%	2.93	0.0000	0.0006	-0.0048	0.0533	0.0000	0.0000	0.0172	-0.0011	0.0485	0.0000	1.84	62.89%	2.93	-0.0178	-0.0009	-0.0125	0.0786	0.0000	0.0382	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	-0.0021	0.0003	-0.0043	0.0416	0.0000	0.0000	0.0117	-0.0010	0.0276	0.0000	2.44	62.81%	2.93	-0.0235	-0.0004	-0.0026	0.0800	0.0000	0.0235	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.44	62.81%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Orkney	0.0000	0.0000	2.78	62.20%	2.83	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.81	62.84%	2.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.									

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Facility	CNA ID	Base Demand (MW)***	Cumulative Demand (MW)***	Facility Loading (%)	Facility Loading Limit (MW)	Residential PV (MW)***	Non-Residential PV (MW)***	EE (MW)***	ES (MW)***	TE (MW)***	Pending Loads (MW)***	EE (MW)***	ES (MW)***	TE (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)***	TE (MW)***	Pending Loads (MW)***	EE (MW)***	ES (MW)***	TE (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)***	TE (MW)***	Pending Loads (MW)***	EE (MW)***	ES (MW)***	TE (MW)***																																																																	
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000	0.0000	0.84	28.76%	2.93	-0.0022	-0.0147	-0.0087	0.0045	0.0000	0.0016																																																																				
Reford	0.0000	0.0000	0.0000	0.00	29.24%	2.93	-0.0005	-0.0048	-0.0040	0.0015	0.0000	0.0002	-0.0004	-0.0080	0.0000	0.0000	0.0000	0.0000	2.93	-0.0013	-0.0096	-0.0063	0.0030	0.0000	0.0007	-0.0008	-0.0143	0.0000	0.0000																																																																														

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ID	Total DER Growth (MW)	Base Demand (MW)	2020										2029										Deficiency (MW)										Deficiency (%)									
			Residential PV (MW)	Commercial PV (MW)	TE (MW)	TE (MW)	Pending Loads (MW)	Residential PV (MW)	Commercial PV (MW)	TE (MW)	TE (MW)	Pending Loads (MW)	Residential PV (MW)	Non-Residential PV (MW)	TE (MW)	TE (MW)	Pending Loads (MW)	Residential PV (MW)	Non-Residential PV (MW)	TE (MW)	TE (MW)	Pending Loads (MW)	2020	2029	2020	2029	2020	2029														
0.0034	-0.1156	0.0000	0.00	82.7%	11.95	-0.0582	-0.1339	-0.0455	0.0777	0.0000	0.0236	-0.0041	-0.1322	0.0000	1.106	92.51%	11.95	-0.0648	-0.1796	-0.0568	0.1015	0.0000	0.0383	0.0048	-0.1521	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0011	-0.0013	0.0000	0.00	82.61%	11.95	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0002	-0.1267	0.3789	0.00	82.78%	11.95	-0.0297	-0.1326	-0.1122	0.0442	2.241	0.0077	-0.0202	-0.1789	0.3789	0.00	92.51%	11.95	-0.0686	-0.2341	-0.1900	0.0595	0.0000	0.0200	0.0002	-0.2507	0.00	0.00	0.00	1.27	0.01	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00					
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	0.0000	0.0000	-0.1212	0.0422	0.0000	0.0077	-0.0312	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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0001	-0.0001	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0077	-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	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00	0.00						
0.0000	-0.0000	0.0000	0.00	82.78%	11.95	-0.0000	-0.0000	-0.0000	0.0000	0.0000																																

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ID	Total DER Gen (MW) *	Base Demand (MW) *	Cumulative Demand (MW) *	Facility Loading (%) *	Facility Loading Unit (MW) *	2023										Deficiency (MW)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
						Residential PV (MW) *	Non-Residential PV (MW) *	EE (MW) *	ES (MW) *	Total DER Gen (MW) *	Base Demand (MW) *	Cumulative Demand (MW) *	Facility Loading (%) *	Facility Loading Unit (MW) *	Residential PV (MW) *	Non-Residential PV (MW) *	EE (MW) *	ES (MW) *	Total DER Gen (MW) *	Base Demand (MW) *	2023					2024																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
																					Funding Loads (MW) *	SE (MW) *	TE (MW) *	Funding Loads (MW) *	SE (MW) *	TE (MW) *	Funding Loads (MW) *	SE (MW) *	TE (MW) *																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
0.0419	-0.1872	8.8870	0.0000	0.00	0.00	-0.5172	-0.0862	-0.0806	0.1796	0.0000	0.2265	0.8306	-0.2273	8.8870	-0.8625	-0.0815	-0.3331	0.2302	0.0000	0.3511	0.0181	-0.2477	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0

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ES (pys)	Total DER Growth (MW)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential PV (pys)	Non-Residential PV (pys)	EE (pys)	TE (pys)	Pending Loads (MW)	EE (pys)	ES (pys)	Total DER Growth (pys)	Base Demand (MW)	Cumulative Demand (MW)	Facility Loading (%)	Facility Loading Limit (MW)	Residential PV (pys)	Non-Residential PV (pys)	TE (pys)	ES (pys)	Pending Loads (MW)	Efficiency (pys)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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-0.0099	0.4693	0.0000	0.0000	0.0000	0.0000	-0.2148	-0.0022	-0.0869	0.1175	0.0441	-0.0042	0.0445	0.0000	0.0000	0.0000	0.0000	0.0000	-0.2148	-0.0022	-0.0869	0.1175	0.0441	-0.0042	0.0445	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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Zeno		0.0000	8.12	67.91%	11.96	-0.0102	-0.0204	-0.0317	0.0045	0.0000	0.0007	0.0045	-0.0086	0.0000	8.06	67.42%	11.96	-0.0207	-0.0404	-0.0517	0.0157	0.0000	0.0055	0.0096	-0.1215	0.0000	0.0000	8.01	66.36%	11.96	-0.0324	0.0000	-0.0411	0.0250	0.0000	0.0157	
Zayo		0.0000				0.0000	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000	-0.0002	-0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000	-0.0004	-0.0005	0.0000	0.0000	0.0000	
Zimmer		0.3753				-0.0057	-0.0041	-0.0129	0.0588	0.0000	0.0009	-0.0021	0.0409	0.0940	-0.0134	-0.0062	-0.0222	0.1121	0.0000	0.0040	-0.0046	0.0000	0.0000	0.0000	1.5201	0.0000	0.0000				-0.0212	-0.0127	-0.0328	0.1912	0.0000	0.0489	
Zinc		0.0000	6.55	60.14%	10.88	-0.0598	-0.0056	0.0148	0.0802	0.0000	0.0148	0.0000	0.0148	0.0000	6.75	60.11%	10.88	-0.0848	-0.0113	-0.0267	0.1674	0.0000	0.0562	0.0001	0.1009	0.0000	0.0000	8.87	61.63%	10.88	-0.1104	-0.0175	-0.0409	0.2613	0.0000	0.1176	
Zintabell		0.4874				-0.0729	-0.0102	-0.0234	0.0636	0.0000	0.0117	-0.0019	-0.0115	0.4874	-0.1791	-0.0204	-0.0360	0.1370	0.0000	0.0062	-0.0033	0.0000	0.0000	0.4874	-0.2808	0.0000	0.0000				-0.0216	-0.0501	0.2201	0.0000	0.0799		
Zintabell		0.0000	8.98	72.44%	11.96	0.0000	0.0000	-0.0113	0.0244	0.0000	0.0001	-0.0059	0.0157	0.0000	9.02	75.42%	11.96	0.0000	0.0000	-0.0180	0.0509	0.0000	0.0234	-0.0175	0.0388	0.0000	0.0000	9.06	75.75%	11.96	0.0000	0.0000	-0.0207	0.0780	0.0000	0.0506	
Zintabell		0.0000				-0.0183	-0.0355	0.0352	0.0040	0.0000	0.0050	0.0001	-0.0790	0.0000				-0.0006	-0.0713	-0.0554	0.0104	0.0000	0.0117	0.0004	-0.1548	0.0000	0.0000				-0.0835	-0.1110	-0.0741	0.0170	0.0000	0.0190	
Zintabell		0.0000	11.40	95.23%	11.96	-0.0311	-0.0016	-0.0002	0.0255	0.0000	0.0001	-0.0034	-0.0207	0.0000	11.40	95.34%	11.96	-0.0176	-0.0032	-0.0163	0.0406	0.0000	0.0200	-0.0072	-0.0100	0.0000	0.0000	11.41	95.41%	11.96	-0.0841	-0.0540	-0.0232	0.0754	0.0000	0.0483	
Zintabell		0.0000	6.57	56.68%	11.59	-0.0017	-0.0202	-0.0203	0.0174	0.0000	0.0016	-0.0010	-0.0242	0.0000	6.55	56.56%	11.59	-0.0027	-0.0405	-0.0333	0.0358	0.0000	0.0055	-0.0022	-0.0374	0.0000	0.0000	6.54	56.43%	11.59	-0.0038	-0.0626	-0.0479	0.0545	0.0000	0.0113	
Zintabell		0.0000				-0.0064	-0.0670	0.0428	0.0001	0.0000	0.0039	0.0002	-0.1028	0.0000				-0.0137	-0.1347	-0.0695	0.0196	0.0000	0.0133	0.0005	-0.1845	0.0000	0.0000				-0.0218	-0.2098	-0.1001	0.0314	0.0000	0.0279	
Zintabell		0.0000	9.47	69.65%	13.58	-0.0101	-0.0257	-0.0145	0.0302	0.0000	0.0082	-0.0001	-0.0074	0.0000	10.06	63.35%	13.58	-0.0131	-0.0493	-0.0251	0.0602	0.0000	0.0447	-0.0023	0.0511	0.0000	0.0000	9.54	62.54%	13.58	-0.0126	-0.0601	-0.0395	0.1303	0.0000	0.0917	
Zintabell		0.0000				-0.0342	-0.0506	0.0354	0.0508	0.0000	0.0091	0.0010	-0.0593	0.0000				-0.1483	-0.1018	-0.0608	0.1072	0.0000	0.0230	0.0020	-0.1531	0.0000	0.0000				-0.2662	-0.1586	-0.0932	0.1720	0.0000	0.0387	
Zintabell		0.2764	26.11	79.29%	32.93	0.0000	0.0000	-0.0021	0.0468	0.1783	0.0214	-0.0020	0.1916	1.0521	26.43	80.24%	32.93	0.0000	0.0000	-0.0027	0.0902	0.3114	0.0604	-0.1015	0.2888	1.1719	1.1719	27.23	81.60%	32.93	0.0000	0.0000	-0.1101	0.1022	1.1518	0.1204	

2025														2026														2027														2028														2029													
ES (MW) ¹	Total DER Growth (MW) ²	Base Demand (MW) ³	Cumulative Demand (MW) ⁴	Facility Loading (%) ⁵	Facility Loading Limit (MW) ⁶	Residential PV (MW) ⁷	Non-Residential PV (MW) ⁸	EE (MW) ⁹	TE (MW) ¹⁰	Pending Loads (MW) ¹¹	BE (MW) ¹²	ES (MW) ¹³	Total DER Growth (MW) ¹⁴	Base Demand (MW) ¹⁵	Cumulative Demand (MW) ¹⁶	Facility Loading (%) ¹⁷	Facility Loading Limit (MW) ¹⁸	Residential PV (MW) ¹⁹	Non-Residential PV (MW) ²⁰	EE (MW) ²¹	TE (MW) ²²	Pending Loads (MW) ²³	BE (MW) ²⁴	ES (MW) ²⁵	Total DER Growth (MW) ²⁶	2025 ²⁷	2026 ²⁸	2027 ²⁹	2028 ³⁰	2029 ³¹	2025 ³²	2026 ³³	2027 ³⁴	2028 ³⁵	2029 ³⁶																																		
-0.0005	-0.0171	0.0000				0.0000	0.0000	-0.0053	0.0104	0.0000	0.0042	-0.0007	-0.0214	0.0000				0.0000	0.0000	-0.0428	0.0124	0.0000	0.0003	-0.0000	-0.0000	-0.0000	-0.0000	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%																																	
0.0548	-0.1719	0.0000	7.35	66.40%	11.58	-0.0436	-0.2028	-0.0555	0.0370	0.0000	0.0256	0.0161	-0.2232	0.0000	7.30	66.05%	11.56	-0.0544	-0.2602	-0.0688	0.0507	0.0000	0.0438	0.0176	-0.2713	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%																																			
0.0000	0.0000	0.0000				0.0000	-0.0006	-0.0006	0.0000	0.0000	0.0000	0.0000	-0.0012	0.0000				0.0000	-0.0006	-0.0007	0.0000	0.0000	0.0000	0.0000	-0.0015	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%																																			
-0.0072	0.1662	1.5201				-0.0200	-0.0172	-0.0441	0.2638	0.0000	0.0700	-0.0086	0.2387	1.5201				-0.0305	-0.0226	-0.0551	0.3379	0.0000	0.1664	-0.0126	0.3165	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%																																			
0.0001	0.2102	0.0000	8.59	66.40%	15.88	-0.1349	-0.0238	-0.0560	0.3544	0.0000	0.1881	0.0001	0.3279	0.0000	9.13	57.46%	15.88	-0.1592	-0.0316	-0.0710	0.4579	0.0000	0.2827	0.0001	0.4589	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%																																			
-0.0049	-0.0754	0.4875				-0.0011	-0.0428	-0.0673	0.3014	0.0000	0.1249	-0.0072	-0.0021	0.4875				-0.0024	-0.0060	-0.0638	0.3843	0.0000	0.1819	-0.0097	-0.0762	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%																																			
0.0006	0.0784	0.2886	9.33	76.14%	11.95	0.0000	0.0000	-0.0343	0.1000	0.0000	0.0863	-0.0418	0.1151	0.2886	9.18	76.52%	11.96	0.0000	0.0000	-0.0425	0.1146	0.0000	0.1373	-0.0543	0.1661	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%																																			
0.0006	0.2320	0.0000				-0.0835	-0.1110	-0.0843	0.0291	0.0000	0.0270	-0.0013	-0.2240	0.0000				-0.0835	-0.1110	-0.0947	0.0431	0.0000	0.0388	-0.0032	-0.2125	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%																																			
0.0114	0.0026	0.0000	11.42	66.50%	11.90	-0.1116	-0.0946	-0.0301	0.0830	0.0000	0.0777	-0.0158	0.0875	0.0000	11.44	66.67%	11.90	-0.1371	-0.1006	-0.0372	0.1127	0.0000	0.1182	-0.0203	0.0207	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%																																			
-0.0052	-0.0537	0.0000	6.52	54.25%	11.59	-0.0049	-0.0849	-0.0645	0.0726	0.0000	0.0179	-0.0082	-0.0720	0.0000	6.50	56.07%	11.59	-0.0060	-0.1130	-0.0802	0.0919	0.0000	0.0264	-0.0114	-0.0913	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%																																			
0.0008	0.2717	0.0000				-0.0033	-0.2855	-0.1356	0.0434	0.0000	0.0403	0.0011	-0.3688	0.0000				-0.0384	-0.3800	-0.1603	0.0571	0.0000	0.0054	0.0014	-0.4738	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%																																			
-0.0071	0.0833	0.0000	10.54	63.22%	15.81	-0.0403	-0.0720	-0.0518	0.1791	0.0000	0.1175	-0.0120	0.1803	0.0000	10.17	64.03%	15.81	-0.0484	-0.0851	-0.0614	0.2706	0.0000	0.2864	-0.0173	0.3010	0.00	0.00	1.00	1.00	1.26%	0.76%	7.61%	8.75%	10.87%																																			
0.0029	-0.2584	0.0000				-0.3838	-0.2158	-0.1229	0.2383	0.0000	0.0500	0.0525	0.0039	-0.3778	0.0000			-0.4895	-0.2873	-0.1505	0.3143	0.3725	0.0729	0.0049	-0.1727	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%																																			
-0.2037	1.1136	1.1719	26.30	79.81%	32.83	0.0000	0.0000	-0.1439	0.2042	1.4868	0.1998	-0.3058	1.4381	1.1719	26.17	79.46%	32.83	0.0000	0.0000	-0.1761	0.2592	1.6330	0.2075	-0.4160	1.6188	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%																																			

Attachment D

2025 Distribution Upgrade Projects Report Redacted Dataset

(PUBLIC VERSION)

										Deficiency (MW, MVAR or V%)			
GNA ID	DUPR ID	DUPR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment to Be Installed	Operating Date	2025 ^A	2026 ^A	2027 ^A	2028 ^A
GNA_2025_159	DUPR_2025_D278	DDOR_2024_633048	Ellis 66/12 (D)	Abbot	Capacity (UCT)	Underground Cable Temperature Mitigation	DCU to resolve Duct Bank Temperature Violations, as well as	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.00	0.00
GNA_2025_159	DUPR_2025_D284	DDOR_2024_633053	Ellis 66/12 (D)	Abbot	Capacity (UCT)	Underground Cable Temperature Mitigation	Upgrade substation getaways to increase getaway capacity	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.00	0.00
GNA_2025_252	DUPR_2025_DV53	DUPR_2025_DVAR Plan_23	Cudady 66/14.16 (D)	Able	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	0.17	0.17	0.00	0.00
GNA_2025_252	DUPR_2025_DV25	DDOR_2024_DVAR Plan_3	Moreno 115/12 (D)	Accent	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	0.16	0.17	0.18	0.19
GNA_2025_201	DUPR_2025_D591	DUPR_2025_730094	Randal 66/12 (D)	Acosta	Capacity (UCT)	Increase Circuit/Sub Capacity	Falcon Ridge 66/12 Substation - Camaro 12kV to offload Ly	Primary Feeder - Cable/Conductor	6/1/2027	1.26	1.59	1.96	2.48
GNA_2025_201	DUPR_2025_D732	DUPR_2025_8798	Randal 66/12 (D)	Acosta	Capacity (UCT)	Increase Circuit/Sub Capacity	Falcon Ridge 66/12 (D) - Install (2) new 12kV circuits for a t	Primary Feeder - Cable/Conductor	6/1/2027	1.26	1.59	1.96	2.48
GNA_2025_454	DUPR_2025_D385	DDOR_2024_8715	Camarillo 66/16 (D)	Adolfo	Capacity (UCT)	Underground Cable Temperature Mitigation	Camarillo 66/16 (D) - Install a blister to reroute Crosson 16	Substation - Upgrade Components	6/1/2026	0.00	0.60	0.50	0.40
GNA_2025_454	DUPR_2025_D501	DUPR_2025_639032	Camarillo 66/16 (D)	Adolfo	Capacity (UCT)	Underground Cable Temperature Mitigation	Camarillo 66/16 (D) - Multiple circuits Reroute and recable	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.60	0.50	0.40
GNA_2025_273	DUPR_2025_D204	DDOR_2024_532030	Bullis 66/4.16 (D)	Agnes	Capacity	Increase Circuit/Sub Capacity	Recable getaway to 500 EPR Gunlock 4 kV, Pattie 4 kV, Agn	Primary Feeder - Cable/Conductor	12/31/2025	0.00	0.00	0.00	0.10
GNA_2025_91	DUPR_2025_D5	DDOR_2019_747043	Imperial 66/12 (D)	Alameda	Capacity (UCT)	Underground Cable Temperature Mitigation	Imperial Substation 66/12kV, 66/4kV Rerouting circuits to r	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.10	0.00	0.20
GNA_2025_390	DUPR_2025_D575	DUPR_2025_726122	Live Oak 66/12 (D)	Alamosa	Capacity (UCT)	Underground Cable Temperature Mitigation	2025 IGPE Forbes 12kV % Live Oak	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.09
GNA_2025_453	DUPR_2025_D138	DDOR_2023_631068	Yucaipa 66/12 (D)	Conine	Capacity (UCT)	Increase Circuit/Sub Capacity	Install (1) new 12kV circuit to alleviate Conine 12kV from fo	Primary Feeder - Cable/Conductor	4/1/2026	0.00	5.35	7.43	8.74
GNA_2025_266	DUPR_2025_D209	DDOR_2024_532033	Brewster 16/4.16 (D)	Alberta	Capacity	Increase Circuit/Sub Capacity	Brewster 16-4.16kV - Alberta 4kV: Recable 350 CLP mainlin	Primary Feeder - Cable/Conductor	6/1/2025	0.30	0.30	0.30	0.30
GNA_2025_99	DUPR_2025_D517	DUPR_2025_647053	Passons 66/12 (D)	Alburtis	Capacity (UCT)	Underground Cable Temperature Mitigation	Passons 66/12: Duct Bank Project to Address Heating Con	Primary Feeder - Cable/Conductor	6/1/2026	1.07	0.00	0.30	0.83
	DUPR_2025_D506	DUPR_2025_639033	Gonzales 66/16 (D)	Alvarado	Capacity (UCT)	Underground Cable Temperature Mitigation	Gonzales 66/16 (D) - Ditch 16 kV and Alvarado 16 kV Rewo	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.00	0.00
	DUPR_2025_D834	DUPR_2025_8914	Gonzales 66/16 (D)	Alvarado	Capacity (UCT)	Underground Cable Temperature Mitigation	Gonzales 66/16 (D) - Install a blister to reroute Ditch 16 kV	Substation - Upgrade Components	6/1/2026	0.00	0.00	0.00	0.00
	DUPR_2025_D507	DUPR_2025_639033	Gonzales 66/16 (D)	Amanda	Capacity (UCT)	Underground Cable Temperature Mitigation	Gonzales 66/16 (D) - Ditch 16 kV and Alvarado 16 kV Rewo	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.00	0.00
	DUPR_2025_D835	DUPR_2025_8914	Gonzales 66/16 (D)	Amanda	Capacity (UCT)	Underground Cable Temperature Mitigation	Gonzales 66/16 (D) - Install a blister to reroute Ditch 16 kV	Substation - Upgrade Components	6/1/2026	0.00	0.00	0.00	0.00
GNA_2025_401	DUPR_2025_D440	DUPR_2025_551250	Riverway 66/12 (D)	American	Capacity (UCT)	Underground Cable Temperature Mitigation	Chatham 66/12 (D) - Virgil 12kV - DSP - Summer Readiness	Primary Feeder - Cable/Conductor	6/1/2025	0.04	0.00	0.11	0.11
GNA_2025_401	DUPR_2025_D632	DUPR_2025_751241	Riverway 66/12 (D)	American	Capacity (UCT)	Underground Cable Temperature Mitigation	Chatham 66/12 kV (D) - Install one (1) DSP12 kV circuit (fo	Primary Feeder - Cable/Conductor	12/31/2026	1.04	1.00	1.07	1.22
GNA_2025_401	DUPR_2025_D807	DUPR_2025_8849	Riverway 66/12 (D)	American	Capacity (UCT)	Underground Cable Temperature Mitigation	Chatham 66/12 kV (D) - Install one (1) DSP12 kV circuit (fo	Substation - Upgrade Components; Primary Fe	6/1/2027	1.04	1.00	1.07	1.22
GNA_2025_533	DUPR_2025_DV28	DDOR_2024_DVAR Plan_32	Bunker 115/12 (D)	Ammo	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2026	1.90	1.89	1.88	1.89
GNA_2025_533	DUPR_2025_DV50	DUPR_2025_DVAR Plan_20	Bunker 115/12 (D)	Ammo	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2026	0.83	0.51	0.50	0.49
GNA_2025_681	DUPR_2025_D276	DDOR_2024_630039	Glen Avon 66/12 (D)	Anderson	Capacity (UCT)	Increase Circuit/Sub Capacity	Glen Avon 66/12 - Ironstone 12kV - DSP New Circuit, Circu	Primary Feeder - Cable/Conductor	6/1/2027	1.35	16.20	17.80	0.70
GNA_2025_681	DUPR_2025_D686	DUPR_2025_8698	Glen Avon 66/12 (D)	Anderson	Capacity (UCT)	Increase Circuit/Sub Capacity	Glen Avon 66/12 (D) - Add 2 -12.0 kV circuit(s) for a total of	Primary Feeder - Cable/Conductor	6/1/2027	1.37	16.22	18.22	1.63
GNA_2025_681	DUPR_2025_D870	DUPR_2025_DSP37229	Glen Avon 66/12 (D)	Anderson	Capacity (UCT)	Increase Circuit/Sub Capacity	Glen Avon 66/12 (D) - Increase Substation Capacity from 8	Substation - Upgrade Components; Primary Fe	12/31/2028	1.37	16.22	12.46	14.89
GNA_2025_367	DUPR_2025_D561	DUPR_2025_679045	Santa Rosa 115/12 (D)	Annenberg	Capacity (UCT)	Underground Cable Temperature Mitigation	Add new duct bank / blister to address duct bank violation	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.50	1.96	2.09
GNA_2025_264	DUPR_2025_D205	DDOR_2024_532031	Athens 16/4.16 (D)	Anzac	Capacity	Increase Circuit/Sub Capacity	Partial Cutover 4kV: 49 Transformers on Anzac 4kV @ Other	Primary Feeder - Cable/Conductor	6/1/2025	0.80	0.90	0.90	0.90
GNA_2025_615	DUPR_2025_D769	DUPR_2025_8818	Modena 66/12 (D)	Arabia	Capacity (UCT)	Underground Cable Temperature Mitigation	Modena 66/12 (D) - Adding one (1) new 12kV line, extend i	Substation - Upgrade Components; Primary Fe	6/1/2027	0.15	0.24	0.37	0.50
GNA_2025_571	DUPR_2025_D758	DUPR_2025_8808	Triton 115/12 (D)	Argonaut	Capacity (UCT)	Increase Circuit/Sub Capacity	Triton 115/12kV: Install one (1) 12kV distribution circuit fo	Primary Feeder - Cable/Conductor	6/1/2027	1.09	1.13	1.22	1.28
GNA_2025_353	DUPR_2025_D405	DDOR_2024_DSP36696	Pedley 66/12 (D)	Arlington	Capacity (UCT)	Increase Circuit/Sub Capacity	Bain 66/12 (D) - Add 2 -12.0 kV circuit(s) for a total of 12	Substation - Upgrade Components; Primary Fe	6/1/2028	1.13	1.22	2.22	2.26
GNA_2025_368	DUPR_2025_D552	DUPR_2025_679045	Santa Rosa 115/12 (D)	Arnez	Capacity (UCT)	Underground Cable Temperature Mitigation	Add new duct bank / blister to address duct bank violation	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.04	1.78	1.87
	DUPR_2025_DV32	DDOR_2024_DVAR Plan_4	Mayflower 16/4.16 (D)	Ashmont	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	0.00	0.00	0.00	0.00
	DUPR_2025_D624	DUPR_2025_743033	Luz Lomas 66/12 (D)	Atlanta	Capacity	Increase Circuit/Sub Capacity	New DSP Circuit #10	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.00
	DUPR_2025_D849	DUPR_2025_8935	Luz Lomas 66/12 (D)	Atlanta	Capacity	Increase Circuit/Sub Capacity	Luz Lomas 66/12 kV (D) - Install one (1) DSP 12 kV Circuit	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.00
GNA_2025_269	DUPR_2025_D79	DDOR_2022_532018	Bullis 66/16 (D)	Atlantic	Capacity	Increase Circuit/Sub Capacity	Bullis 66/16: Install new 16kV circuit % Bullis Substation to	Primary Feeder - Cable/Conductor	12/31/2026	3.74	3.71	5.94	0.24
GNA_2025_269	DUPR_2025_D148	DDOR_2023_8501	Bullis 66/16 (D)	Atlantic	Capacity	Increase Circuit/Sub Capacity	Bullis 66/16 (D) - Install one new 16 kV circuit for a total of	Substation - Upgrade Components; Primary Fe	12/31/2026	3.74	3.71	5.94	0.24
GNA_2025_475	DUPR_2025_D616	DUPR_2025_739058	Wakefield 66/16 (D)	Atmore	Capacity	Increase Circuit/Sub Capacity	Wakefield 66/16 (D) - Atmore 16 kV - Re-conductor and rec	Primary Feeder - Cable/Conductor	6/1/2027	0.44	0.12	1.91	1.56
GNA_2025_476	DUPR_2025_DV45	DUPR_2025_DVAR Plan_16	Wakefield 66/16 (D)	Atmore	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	0.00	0.00	0.08	0.00
GNA_2025_179	DUPR_2025_D412	DDOR_2024_DSP36748	Alder 66/12 (D)	Augusta	Capacity (UCT)	Increase Circuit/Sub Capacity	Falcon Ridge 66/12 (D) - Three (3) new circuits out of Falco	Primary Feeder - Cable/Conductor	6/1/2028	3.48	5.26	7.98	3.35
GNA_2025_179	DUPR_2025_D590	DUPR_2025_730094	Alder 66/12 (D)	Augusta	Capacity (UCT)	Increase Circuit/Sub Capacity	Falcon Ridge 66/12 Substation - Camaro 12kV to offload Ly	Primary Feeder - Cable/Conductor	6/1/2027	3.57	5.35	8.07	7.48
GNA_2025_179	DUPR_2025_D730	DUPR_2025_8798	Alder 66/12 (D)	Augusta	Capacity (UCT)	Increase Circuit/Sub Capacity	Falcon Ridge 66/12 (D) - Install (2) new 12kV circuits for a t	Primary Feeder - Cable/Conductor	6/1/2027	3.57	5.35	8.07	7.48
GNA_2025_175	DUPR_2025_D267	DDOR_2024_629041	Vera 66/12 (D)	Austin	Capacity (UCT)	Underground Cable Temperature Mitigation	Double Run Austin 12kV and Rambler 12 kV, and Recable t	Primary Feeder - Cable/Conductor	6/1/2026	0.00	4.41	7.78	0.00
GNA_2025_225	DUPR_2025_D25	DDOR_2019_985002	Skiiland 33/12 (D)	Autumn	Reliability, Capacity	Underground Cable Capacity, Reliability Mitigation	Skiiland Sub 33/12-Autumn 12kV- Create a new tie under D	Primary Feeder - Cable/Conductor	12/31/2019	3.12	3.15	3.19	3.21
GNA_2025_650	DUPR_2025_D42	DDOR_2021_231789	Shandin 115/12 (D)	Avanti	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP - Duct bank temperature violation - Multiple circuits %	Primary Feeder - Cable/Conductor	6/1/2027	9.22	9.16	9.04	9.04
GNA_2025_650	DUPR_2025_D380	DDOR_2024_8696	Shandin 115/12 (D)	Avanti	Capacity (UCT)	Increase Circuit/Sub Capacity	Shandin 115/12 (D) - Add 1 -12.0 kV circuit(s) for a total of	Primary Feeder - Cable/Conductor	6/1/2027	1.87	2.61	0.22	0.41
GNA_2025_649	DUPR_2025_D602	DUPR_2025_731087	Shandin 115/12 (D)	Avanti	Capacity	Increase Circuit/Sub Capacity	Shandin 115/12 (D): Circuit#12 to offload Northpark and o	Primary Feeder - Cable/Conductor	6/1/2027	1.48	1.48	1.48	1.48
GNA_2025_97	DUPR_2025_D10	DDOR_2019_747043	Imperial 66/4.16 (D)	Bacon	Capacity (UCT)	Underground Cable Temperature Mitigation	Imperial Substation 66/12kV, 66/4kV Rerouting circuits to r	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.10	0.00
GNA_2025_96	DUPR_2025_D239	DDOR_2024_547016	Imperial 66/4.16 (D)	Bacon	Capacity	Increase Circuit/Sub Capacity	Imperial 66/4.16: Bacon 4kV- DSP Partial Cutover to Valtair	Primary Feeder - Cable/Conductor	6/1/2025	0.37	0.37	0.37	0.37
GNA_2025_182	DUPR_2025_D705	DUPR_2025_8780	Decleaz 66/12 (D)	Bamboo	Capacity (UCT)	Increase Circuit/Sub Capacity	Etowanda 66/33 (D): Adding 33 kV to Etowanda Substation	Primary Feeder - Cable/Conductor	6/1/2029	0.00	0.00	2.24	3.33
GNA_2025_360	DUPR_2025_D370	DDOR_2024_8683	Concho 115/12 (D)	Bandana	Capacity (UCT)	Underground Cable Temperature Mitigation	Concho 115/12 kV (D) - Increase Substation Capacity from	Substation - Upgrade Components; Primary Fe	6/1/2026	0.00	0.83	0.00	0.28
GNA_2025_230	DUPR_2025_D271	DDOR_2024_629042	Johanna 66/12 (D)	Faro	Capacity (UCT)	Underground Cable Temperature Mitigation	Upgrade substation getaways to increase getaway capacity	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.43	0.65	0.63
GNA_2025_433	DUPR_2025_D787	DUPR_2025_8828	Lark Ellen 66/12 (D)	Barbara	Capacity (UCT)	Increase Circuit/Sub Capacity	Lark Ellen 66/12 (D) - Install (1) DSP New 12kV Circuit in Po	Substation - Upgrade Components; Primary Fe	6/1/2027	0.30	3.02	2.96	2.89
GNA_2025_240	DUPR_2025_D256	DDOR_2024_572032	Gale 115/33 (D)	Baroid	Capacity	Increase Circuit/Sub Capacity	Gale 115/33 kV (D) - Luz 33kV - Tap Yermo leg of Baroid 33k	Primary Feeder - Cable/Conductor	12/31/2025	0.00	0.00	2.75	4.25
GNA_2025_425	DUPR_2025_D178	DDOR_2024_527047	Bradbury 66/16 (D)	Bateman	Capacity (UCT)	Underground Cable Temperature Mitigation	Bradbury 66/16 (D) - Reroute Bateman and Hurstview 16 kV	Primary Feeder - Cable/Conductor	12/1/2025	0.82	1.94	1.94	1.88
GNA_2025_425	DUPR_2025_D842	DUPR_2025_8929	Bradbury 66/16 (D)	Bateman	Capacity (UCT)	Underground Cable Temperature Mitigation	Bradbury 66/16 (D) - Install a new blister with approximate	Substation - Upgrade Components	12/31/2025	0.82	1.94	1.94	1.88
GNA_2025_625	DUPR_2025_D427	DUPR_2025_529065	Villa Park 66/12 (D)	Baylor	Capacity (UCT)	Increase Circuit/Sub Capacity	Distribution Circuit Upgrade	Primary Feeder - Cable/Conductor	6/1/2025	0.72	0.80	0.91	1.04
GNA_2025_521	DUPR_2025_D528	DUPR_2025_651658	Porterville 66/12 (D)	Beattie	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU PIF to recable all circuit getaways from 1000 JCN	Primary Feeder - Cable/Conductor	11/1/2026	0.00	0.00	0.35	0.39
GNA_2025_315	DUPR_2025_D116	DDOR_2023_530027	Bain 66/12 (D)	Bellgrave	Capacity (UCT)	Increase Circuit/Sub Capacity	Bain 66/12 (D) - Circuit #9 to Offload Hettler 12kV circuit an	Primary Feeder - Cable/Conductor	12/31/2026	0.48	2.30	4.57	6.89
GNA_2025_315	DUPR_2025_D702	DUPR_2025_8763	Bain 66/12 (D)	Bellgrave	Capacity (UCT)	Increase Circuit/Sub Capacity	Bain 66/12 (D) - Add 1 -12.0 kV circuit(s) for a total of 9.	Primary Feeder - Cable/Conductor	12/31/2026	0.48	2.30	4.57	6.89
GNA_2025_316	DUPR_2025_D404	DDOR_2024_DSP36696	Bain 66/12 (D)	Ben Neviss	Capacity	Increase Circuit/Sub Capacity	Bain 66/12 (D) - Add 2 -12.0 kV circuit(s) for a total of 12	Substation - Upgrade Components; Primary Fe	6/1/2028	1.57	2.17	2.11	2.13
GNA_2025_193	DUPR_2025_D715	DUPR_2025_8780	Etowanda 66/12 (D)	Benny	Capacity (UCT)	Increase Circuit/Sub Capacity	Etowanda 66/33 (D): Adding 33 kV to Etowanda Substation	Primary Feeder - Cable/Conductor	6/1/2029	0.00	6.46	6.35	5.61
GNA_2025_61	DUPR_2025_D492	DUPR_2025_636039	Oasis 66/12 (D)	Beone	Capacity (UCT)	Underground Cable Temperature Mitigation	Oasis 66/12 kV - Beone 12 kV - DCU recable to 1000CU du	Primary Feeder - Cable/Conductor	7/1/2026	0.59	0.98	1.83	1.52
GNA_2025_378	DUPR_2025_D312	DDOR_2024_648049	Telegraph 66/12 (D)	Beta	Capacity (UCT)	Increase Circuit/Sub Capacity	Detailed Scope: DCU to resolve circuit PLL Limitations due	Primary Feeder - Cable/Conductor	6/1/2026	0.41	1.46	1.54	1.61
GNA_2025_183	DUPR_2025_D706	DUPR_2025_8780	Decleaz 66/12 (D)	Big Rigg	Capacity (UCT)	Underground Cable Temperature Mitigation	Etowanda 66/33 (D): Adding 33 kV to Etowanda Substation	Primary Feeder - Cable/Conductor	6/1/2029	1.30	1.83	1.78	0.65
GNA_2025_183	DUPR_2025_D734	DUPR_2025_8799	Decleaz 66/12 (D)	Big Rigg	Capacity (UCT)	Increase Circuit/Sub Capacity	Etowanda 66/12 (D) - Install (2) new 12kV circuits for a total	Primary Feeder - Cable/Conductor	6/1/2028	3.48	4.04	4.00	3.93
GNA_2025_682	DUPR_2025_D137	DDOR_2023_630037	Glen Avon 66/12 (D)	Blackhills	Capacity (UCT)	Increase Circuit/Sub Capacity	Glen Avon 66/12 - Stobbs 12kV - DSP New Circuit - Circuit t	Primary Feeder - Cable/Conductor	6/1/2027</				

U)	Deficiency %					Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
	2029 ^a	Units	2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b					
0.43	MW						891	201	4	1	7	Existing
0.11	MW						891	201	4	1	7	Existing
0.00			75.17%	74.77%	0.00%	0.00%	1431	94	0	0	3	Existing
0.22			26.52%	27.49%	29.36%	32.21%	1534	35	1	1	13	Existing
2.54	MW						2172	87	1	1	38	New
2.54	MW						2172	87	1	1	38	New
0.30	MW						79	311	1	1	9	Existing
0.30	MW						79	311	1	1	9	New
0.10	MW		0.00%	0.00%	0.00%	4.35%	778	37	0	0	1	Existing
0.20	MW		0.00%	1.20%	0.00%	2.44%	1856	237	5	2	22	Existing
0.20	MW		0.00%	0.00%	0.00%	0.88%	2261	250	0	0	8	New
8.72	MW						1362	118	1	6	10	Existing
0.30	MW		12.50%	12.50%	12.50%	12.50%	836	14	0	0	4	Existing
1.20	MW		10.94%	0.00%	3.07%	8.49%	1732	155	0	0	11	New
0.00	MW		0.00%	0.00%	0.00%	0.00%	3088	330	1	1	19	New
0.00	MW		0.00%	0.00%	0.00%	0.00%	3088	330	1	1	19	New
0.00	MW						2681	454	0	6	38	New
0.00	MW						2681	454	0	6	38	New
0.15	MW						2115	185	0	0	18	New
1.24	MW						2115	185	0	0	18	New
1.24	MW						2115	185	0	0	18	New
1.89							1855	35	0	0	11	Existing
0.48							1855	35	0	0	11	Existing
0.67	MW						1748	50	0	1	4	Existing
1.61	MW						1748	50	0	1	4	New
16.93	MW						1748	50	0	1	4	New
2.28	MW						577	94	0	1	8	New
0.00	MW		44.44%	50.00%	50.00%	50.00%	1020	15	0	0	2	Existing
0.67	MW		1.37%	2.19%	3.38%	4.56%	1459	44	1	0	8	New
1.37	MW		9.71%	10.07%	10.87%	11.41%	2012	94	0	0	9	New
2.33	MW						1209	275	0	1	17	Existing
2.04	MW		0.00%	0.45%	18.88%	20.11%	444	79	2	4	10	New
0.00			0.00%	0.00%	0.00%	0.00%	462	5	0	0	0	Existing
0.00	MW						847	71	0	0	12	New
0.00	MW						847	71	0	0	12	New
0.00	MW						2475	219	2	1	22	Existing
0.00	MW						2475	219	2	1	22	Existing
1.35	MW						2272	480	0	8	22	New
0.00							2272	480	0	8	22	Existing
3.37	MW						1201	190	1	1	10	Existing
7.50	MW						1201	190	1	1	10	New
7.50	MW						1201	190	1	1	10	New
0.00	MW						1684	373	1	0	18	Existing
3.23	MW						1922	298	2	1	22	Existing
9.04	MW						1653	105	5	1	62	Existing
0.39	MW						1653	105	5	1	62	Existing
1.50	MW						1653	105	5	1	62	New
0.00	MW		0.00%	0.00%	4.35%	0.00%	889	11	1	0	7	Existing
0.47	MW		12.63%	12.63%	12.63%	12.63%	889	11	1	0	7	Existing
4.28	MW						157	123	2	1	17	New
0.28	MW						1610	223	0	9	9	Existing
0.63	MW						0	35	0	0	6	Existing
2.80	MW						664	60	1	0	13	New
11.50	MW						2	10	0	0	4	Existing
1.88	MW		6.31%	14.92%	14.92%	14.46%	1503	216	2	0	27	Existing
1.88	MW		6.31%	14.92%	14.92%	14.46%	1503	216	2	0	27	New
1.20	MW		6.02%	6.69%	7.61%	8.70%	2399	169	0	1	15	New
0.43	MW		0.00%	0.00%	3.67%	4.09%	1065	175	1	3	11	New
6.93	MW						1080	92	0	2	14	Existing
6.93	MW						1080	92	0	2	14	New
2.17	MW						1921	128	0	2	13	Existing
5.48	MW						0	10	0	0	2	New
1.17	MW						991	321	2	0	10	New
1.74	MW		12.71%	13.17%	13.89%	14.52%	2697	192	0	0	16	Existing
0.61	MW						1714	219	7	0	10	New
3.76	MW						1714	219	7	0	10	New
4.02	MW						1680	131	0	0	17	Existing
4.59	MW						1680	131	0	0	17	New
0.96	MW		3.89%	6.47%	7.60%	8.50%	2134	109	0	3	15	Existing
0.60	MW						935	247	0	0	17	Existing
1.00	MW						1287	430	0	2	10	Existing
0.00	MW						2095	255	0	0	5	Existing
0.00	MW						2095	255	0	0	5	New
1.11	MW						2095	255	0	0	5	New
0.28	MW						1632	118	0	1	39	New
0.80	MW		25.00%	25.00%	25.00%	29.17%	1203	34	1	0	8	Existing
0.63	MW		11.06%	13.78%	5.77%	5.96%	1128	140	0	0	6	Existing
0.63	MW		11.09%	13.78%	5.77%	5.96%	1128	140	0	0	6	Existing
5.85	MW						7	124	1	0	7	Existing
1.43	MW						7	124	1	0	7	New

										Deficiency (MW, MVAR or V%)			
GNA ID	DUPR ID	DUPR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment to Be Installed	Operating Date	2025 ^A	2026 ^A	2027 ^A	2028 ^A
	DUPR, 2025, DV65	DUPR, 2025 DVAR Plan_34	Sawtelle 66/16 (D)	Bonsall	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2026	0.00	0.00	0.00	0.00
GNA_2025_280	DUPR, 2025, D108	DDOR, 2023, 346260	Linden 12/4.16 (D)	Boulevard	Capacity	Increase Circuit/Sub Capacity	Linden 12/4.16: Boulevard 4KV - Recable getaways	Primary Feeder - Cable/Conductor	6/27/2025	0.14	0.14	0.11	0.08
GNA_2025_237	DUPR, 2025, D331	DDOR, 2024, 686017	Downs 115/12 (D)	Bowman	Capacity (UCT)	Increase Circuit/Sub Capacity	Downs 115/12 (D) - Resolve Bowman 12 kV DB heating	Primary Feeder - Cable/Conductor	6/1/2026	0.28	0.35	1.11	1.28
GNA_2025_698	DUPR, 2025, D144	DDOR, 2023, 652012	Goldtown 66/12 (D)	Boxcar	Capacity	Increase Circuit/Sub Capacity	Goldtown 66/12 (D): New DSP Circuit for Grid Impacted Area	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	1.43
GNA_2025_698	DUPR, 2025, D161	DDOR, 2023, 8551	Goldtown 66/12 (D)	Boxcar	Capacity	Increase Circuit/Sub Capacity	Goldtown Substation 66/12 kV: Capacity Increase	Substation - Upgrade Components; Primary Fe	12/31/2026	0.00	0.00	0.00	1.43
GNA_2025_562	DUPR, 2025, D652	DUPR, 2025, 777208	Newcomb 115/12 (D)	Bradley	Capacity (UCT)	Underground Cable Temperature Mitigation	Sun Ctry 115/12 (D) - New Circuit - Halo 12kV - Offload Farr	Primary Feeder - Cable/Conductor	12/31/2027	1.30	1.24	1.20	1.13
GNA_2025_564	DUPR, 2025, DV54	DUPR, 2025 DVAR Plan_24	Newcomb 115/12 (D)	Bradley	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	0.11	0.09	0.07	0.05
GNA_2025_146	DUPR, 2025, D1	DDOR, 2019, 102613	Alhambra 66/16 (D)	Braun	Capacity (UCT)	Underground Cable Temperature Mitigation	Alhambra Sub - Address duct bank temperature violations	Primary Feeder - Cable/Conductor	6/1/2021	0.44	0.35	0.29	0.21
GNA_2025_295	DUPR, 2025, D445	DUPR, 2025, 622041	Belvedere 16/4.16 (A)	Brooklyn	Capacity	Increase Circuit/Sub Capacity	Belvedere 16/4.16 kV - Brooklyn 4 kV - Partial 4 kV Cutover	Primary Feeder - Cable/Conductor	6/1/2026	0.47	0.47	0.49	0.50
GNA_2025_295	DUPR, 2025, D562	DUPR, 2025, 722011	Belvedere 16/4.16 (A)	Brooklyn	Capacity	Increase Circuit/Sub Capacity	Belvedere 16/4.16 kV - Brooklyn 4 kV - Partial 4 kV Cutover	Primary Feeder - Cable/Conductor	6/1/2027	3.50	3.50	3.50	3.60
GNA_2025_462	DUPR, 2025, D297	DDOR, 2024, 639036	Gonzales 66/16 (D)	Buckaroo	Capacity (UCT)	Increase Circuit/Sub Capacity	Restore automation following 2024 load roll (Buckaroo -> B	Primary Feeder - Cable/Conductor	6/1/2026	1.70	1.70	1.60	1.60
GNA_2025_642	DUPR, 2025, D766	DUPR, 2025, 8811	Pepper 115/12 (D)	Burgundy	Capacity (UCT)	Increase Circuit/Sub Capacity	Pepper 115/12 (D) - Add 1 -12.0 kV circuit(s) for a total of 1	Primary Feeder - Cable/Conductor	6/1/2028	0.07	0.00	0.00	3.96
GNA_2025_600	DUPR, 2025, D322	DDOR, 2024, 673071	Victor 115/33 (D)	Burnetta	Capacity (UCT)	Increase Circuit/Sub Capacity	DSP New Circuit - Victor 115/33 (D) - 1 - New 33kV Circuit	Primary Feeder - Cable/Conductor	6/1/2028	0.00	10.24	21.98	25.09
GNA_2025_602	DUPR, 2025, D444	DUPR, 2025, 573030	Victor 115/33 (D)	Burnetta	Voltage	Voltage Violation Mitigation	Proposing New Regulator and RARs to accommodate New E	Primary Feeder - Cable/Conductor	6/1/2026	0.96	0.89	0.89	0.89
GNA_2025_600	DUPR, 2025, D780	DUPR, 2025, 8822	Victor 115/33 (D)	Burnetta	Capacity (UCT)	Increase Circuit/Sub Capacity	Victor 115/33 (D) - Install 1 - New 33 kV Circuit for a total of	Primary Feeder - Cable/Conductor	6/1/2028	0.00	10.24	21.98	25.09
GNA_2025_601	DUPR, 2025, DV43	DUPR, 2025 DVAR Plan_14	Victor 115/33 (D)	Burnetta	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	3.44	10.70	14.11	13.16
GNA_2025_397	DUPR, 2025, D544	DUPR, 2025, 651694	Hanford 66/12 (D)	Burris	Capacity (UCT)	Increase Circuit/Sub Capacity	Hanford 66/12 (D) - Burris 12kV - DCU - Line Extension	Primary Feeder - Cable/Conductor	12/31/2026	0.00	0.00	2.87	0.00
GNA_2025_397	DUPR, 2025, D681	DUPR, 2025, 851264	Hanford 66/12 (D)	Burris	Capacity (UCT)	Increase Circuit/Sub Capacity	One (1) new 12 kV DSP circuit needed to accommodate EV	Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.22	2.52
GNA_2025_397	DUPR, 2025, D802	DUPR, 2025, 8845	Hanford 66/12 (D)	Burris	Capacity (UCT)	Increase Circuit/Sub Capacity	Mascoat 66/12 kV (D) - Install one (1) New DSP 12 kV Circuit	Substation - Upgrade Components; Primary Fe	6/1/2028	0.00	0.00	0.22	2.52
GNA_2025_376	DUPR, 2025, D488	DUPR, 2025, 635051	Thousand Oaks 66/16 (D)	Byer	Capacity (UCT)	Underground Cable Temperature Mitigation	Thousand Oaks - DSP - Re-route Byer 16kV into new 6-5" d	Primary Feeder - Cable/Conductor	6/1/2026	1.74	2.53	3.68	0.76
GNA_2025_376	DUPR, 2025, D608	DUPR, 2025, 735199	Thousand Oaks 66/16 (D)	Byer	Capacity (UCT)	Increase Circuit/Sub Capacity	Thousand Oaks 66/16 (D) - DSP - Westlake 16 kV - Install on	Primary Feeder - Cable/Conductor	12/31/2027	0.00	0.65	1.79	2.71
GNA_2025_376	DUPR, 2025, D768	DUPR, 2025, 8816	Thousand Oaks 66/16 (D)	Byer	Capacity (UCT)	Underground Cable Temperature Mitigation	Thousand Oaks 66/16 kV - Install a new getaway and bliste	Substation - Upgrade Components	6/1/2026	1.74	2.53	3.68	0.76
GNA_2025_376	DUPR, 2025, D777	DUPR, 2025, 8821	Thousand Oaks 66/16 (D)	Byer	Capacity (UCT)	Increase Circuit/Sub Capacity	Thousand Oaks 66/16 (D) - DSP - Install (1) one new 16 kV	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.65	1.79	2.71
GNA_2025_575	DUPR, 2025, D534	DUPR, 2025, 651668	Delano 66/12 (D)	C B S	Capacity (UCT)	Increase Circuit/Sub Capacity	Browning 66/12 - Fugate 12 kV - Distribution Circuit Upgrad	Primary Feeder - Cable/Conductor	10/1/2026	0.00	3.98	1.50	1.48
GNA_2025_485	DUPR, 2025, D81	DDOR, 2022, 543018	Irvine 66/12 (D)	Cadence	Capacity (UCT)	Increase Circuit/Sub Capacity	Irvine 66/12kV - Circuit #14 - New DSP Circuit to mitigate PI	Primary Feeder - Cable/Conductor	6/1/2025	1.20	2.15	1.43	0.00
GNA_2025_485	DUPR, 2025, D98	DDOR, 2022, 8511	Irvine 66/12 (D)	Cadence	Capacity (UCT)	Increase Circuit/Sub Capacity	Irvine 66/12 (D) - Install one (1) - 12 kV DSP Circuit for a tot	Primary Feeder - Cable/Conductor	5/1/2025	1.20	2.15	1.43	0.00
GNA_2025_485	DUPR, 2025, D304	DDOR, 2024, 643446	Irvine 66/12 (D)	Cadence	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP PIF to alleviate DB heating without civil. Part of OC DCI	Primary Feeder - Cable/Conductor	6/1/2026	0.48	0.50	0.00	0.00
GNA_2025_485	DUPR, 2025, D904	DUPR, 2025, DSP74341	Irvine 66/12 (D)	Cadence	Capacity (UCT)	Increase Circuit/Sub Capacity	Safari 33/12 kV (D) - Install one (1) DSP 12 kV Circuit (total	Substation - Upgrade Components	6/1/2028	0.00	0.00	0.00	0.00
GNA_2025_296	DUPR, 2025, D171	DDOR, 2024, 522016	Narrows 66/12 (D)	Cadillac	Capacity (UCT)	Underground Cable Temperature Mitigation	Narrows 66/12 kV - Cadillac 12 kV - Re-conductor Overload	Primary Feeder - Cable/Conductor	7/1/2025	0.85	0.76	0.67	0.61
GNA_2025_320	DUPR, 2025, DV33	DDOR, 2024 DVAR Plan_5	Chase 66/12 (D)	California	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2025	1.87	1.67	1.88	1.89
GNA_2025_73	DUPR, 2025, D433	DUPR, 2025, 548036	Barre 66/12 (D)	Calla	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU to recable substatio getaways to mitigate ductb	Primary Feeder - Cable/Conductor	6/1/2025	1.02	1.04	1.09	1.15
GNA_2025_58	DUPR, 2025, D495	DUPR, 2025, 636049	Little Rock 66/12 (D)	Calli Valli	Voltage	Voltage Violation Mitigation	Little Rock 66/12 kV - Calli Valli 12 kV - Install 300 A closed	Primary Feeder - Cable/Conductor	6/1/2026	0.94	0.94	0.94	0.94
GNA_2025_651	DUPR, 2025, D43	DDOR, 2021, 231789	Shandin 115/12 (D)	Calstate	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP - Duct bank temperature violation - Multiple circuits	Primary Feeder - Cable/Conductor	6/1/2027	1.85	1.83	1.80	1.78
GNA_2025_522	DUPR, 2025, D529	DUPR, 2025, 651658	Porterville 66/12 (D)	Campbell	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU PIF to recable all circuit getaways from 1000 JCN	Primary Feeder - Cable/Conductor	11/1/2026	0.00	0.91	0.00	0.00
	DUPR, 2025, D12	DDOR, 2019, 922312	Belvedere 16/4.16 (A)	Carmy	Capacity	Increase Circuit/Sub Capacity	Belvedere - Camy 4kV: 2019 TPS Circuit, OCP & DSP	Primary Feeder - Cable/Conductor	12/31/2020	0.00	0.00	0.00	0.00
	DUPR, 2025, D124	DDOR, 2023, 543017	Estrella 66/12 (D)	Cancer	Capacity (UCT)	Underground Cable Temperature Mitigation	Estrella 66/12kV - Horoscope 12kV - Re-conductor & Circuit	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.00
	DUPR, 2025, D615	DUPR, 2025, 736060	Anaverde 66/12 (D)	Candleberry	Capacity	Increase Circuit/Sub Capacity	Distribution Circuit Upgrade: Creating a usable tie on the C	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.00
GNA_2025_231	DUPR, 2025, D272	DDOR, 2024, 629042	Johanna 66/12 (D)	Spades	Capacity (UCT)	Underground Cable Temperature Mitigation	Upgrade substation getaways to increase getaway capacity	Primary Feeder - Cable/Conductor	6/1/2026	1.43	1.70	1.89	0.00
GNA_2025_142	DUPR, 2025, D696	DUPR, 2025, 8719	Palm Canyon 33/12 (D)	Cantina	Capacity (UCT)	Increase Circuit/Sub Capacity	Palm Canyon 33/12 kV (D) - Installing a Blister to Re-route	Substation - Upgrade Components	6/1/2026	0.93	0.96	1.00	1.04
GNA_2025_572	DUPR, 2025, D759	DUPR, 2025, 8808	Triton 115/12 (D)	Capelin	Capacity (UCT)	Increase Circuit/Sub Capacity	Triton 115/12kV: Install one (1) 12kV distribution circuit for	Primary Feeder - Cable/Conductor	6/1/2027	1.91	3.09	3.20	3.28
GNA_2025_534	DUPR, 2025, D72	DDOR, 2022, 477076	Bunker 115/12 (D)	Carbine	Capacity (UCT)	Increase Circuit/Sub Capacity	Bunker 115/12 (D) - New ckt # 12 % Bunker Substation	Primary Feeder - Cable/Conductor	6/1/2026	3.83	2.83	3.00	3.26
GNA_2025_534	DUPR, 2025, D154	DDOR, 2023, 8529	Bunker 115/12 (D)	Carbine	Capacity (UCT)	Increase Circuit/Sub Capacity	Bunker 115/12 (D) - Add 1 - 12kV circuit for a total of 12 circ	Primary Feeder - Cable/Conductor	6/1/2025	3.83	2.83	3.00	3.26
GNA_2025_699	DUPR, 2025, D145	DDOR, 2023, 652012	Goldtown 66/12 (D)	Carbon	Capacity	Increase Circuit/Sub Capacity	Goldtown 66/12 (D): New DSP Circuit for Grid Impacted Area	Primary Feeder - Cable/Conductor	6/1/2027	0.33	2.07	3.30	4.13
GNA_2025_699	DUPR, 2025, D162	DDOR, 2023, 8551	Goldtown 66/12 (D)	Carbon	Capacity	Increase Circuit/Sub Capacity	Goldtown Substation 66/12 kV: Capacity Increase	Substation - Upgrade Components; Primary Fe	12/31/2026	0.33	2.07	3.30	4.13
GNA_2025_639	DUPR, 2025, D194	DDOR, 2024, 531051	Mt. Vernon 33/4.16 (D)	Carey	Capacity	Increase Circuit/Sub Capacity	Mt. Vernon 33/4.16 (D) - Carey 4kV: Cutover of 28 Transfor	Primary Feeder - Cable/Conductor	5/1/2025	0.08	0.09	0.11	0.14
GNA_2025_393	DUPR, 2025, DV34	DDOR, 2024 DVAR Plan_6	San Dimas 66/12 (D)	Carlet	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	0.31	0.32	0.32	0.33
GNA_2025_652	DUPR, 2025, D44	DDOR, 2021, 231789	Shandin 115/12 (D)	Carmelita	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP - Duct bank temperature violation - Multiple circuits	Primary Feeder - Cable/Conductor	6/1/2027	1.28	1.37	1.46	1.46
GNA_2025_652	DUPR, 2025, D382	DDOR, 2024, 8701	Shandin 115/12 (D)	Carmelita	Capacity (UCT)	Underground Cable Temperature Mitigation	Del Rosa 66/12 (D) - Add (1) new 12kV circuit for a total of	Substation - Upgrade Components; Primary Fe	6/1/2027	1.28	1.37	1.46	1.46
GNA_2025_652	DUPR, 2025, D604	DUPR, 2025, 731090	Shandin 115/12 (D)	Carmelita	Capacity (UCT)	Underground Cable Temperature Mitigation	Del Rosa 66/12 (D): Build circuit#13 to offload Shandin 115	Primary Feeder - Cable/Conductor	6/1/2027	1.28	1.37	1.42	1.46
	DUPR, 2025, D222	DDOR, 2024, 539015	Gonzales 66/16 (D)	Carmegie	Capacity (UCT)	Underground Cable Temperature Mitigation	Gonzales 66/16 (D) - Ditch 16 kV - Restore automation fol	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.00
	DUPR, 2025, D508	DUPR, 2025, 639033	Gonzales 66/16 (D)	Carmegie	Capacity (UCT)	Underground Cable Temperature Mitigation	Gonzales 66/16 (D) - Ditch 16 kV and Alvarado 16 kV Rewo	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.00	0.00
	DUPR, 2025, D836	DUPR, 2025, 8914	Gonzales 66/16 (D)	Carmegie	Capacity (UCT)	Underground Cable Temperature Mitigation	Gonzales 66/16 (D) - Install a blister to reroute Ditch 16 kV	Substation - Upgrade Components	6/1/2026	0.00	0.00	0.00	0.00
GNA_2025_693	DUPR, 2025, DV35	DDOR, 2024 DVAR Plan_7	Puente 66/12 (D)	Carr	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	1.06	1.04	1.03	1.03
GNA_2025_232	DUPR, 2025, D273	DDOR, 2024, 629042	Johanna 66/12 (D)	Tetris	Capacity (UCT)	Underground Cable Temperature Mitigation	Upgrade substation getaways to increase getaway capacity	Primary Feeder - Cable/Conductor	6/1/2026	4.20	6.37	9.30	0.00
GNA_2025_143	DUPR, 2025, D697	DUPR, 2025, 8719	Palm Canyon 33/12 (D)	Caribbean	Capacity (UCT)	Underground Cable Temperature Mitigation	Palm Canyon 33/12 kV (D) - Installing a Blister to Re-route	Substation - Upgrade Components	6/1/2026	0.00	0.00	0.22	0.26
GNA_2025_215	DUPR, 2025, D597	DUPR, 2025, 730100	Wimbledon 66/12 (D)	Casals	Capacity (UCT)	Increase Circuit/Sub Capacity	15th 12kV Circuit % Wimbledon to offload McEnroe 12kV a	Primary Feeder - Cable/Conductor	6/1/2027	1.39	1.59	1.59	1.59
GNA_2025_215	DUPR, 2025, D823	DUPR, 2025, 8886	Wimbledon 66/12 (D)	Casals	Capacity (UCT)	Increase Circuit/Sub Capacity	Wimbledon 66/12 (D) - Install two (2) new 12 kV circuits for	Primary Feeder - Cable/Conductor	6/1/2027	1.39	1.59	1.59	1.59
GNA_2025_238	DUPR, 2025, D340	DDOR, 2024, 8508	Edwards 115/33 (D)	Castle Butte	Capacity	Increase Circuit/Sub Capacity	Cal City 115/12 (D) & 115/33 kV (D) - Cancelling PIN #8508	Substation - Upgrade Components; Substation	6/30/2028	0.00	0.00	0.00	11.10
	DUPR, 2025, D707	DUPR, 2025, 8780	Declez 66/12 (D)	Catawba	Capacity (UCT)	Underground Cable Temperature Mitigation	Etswana 66/13 (D): Adding 33 kV to Etswana Substation	Primary Feeder - Cable/Conductor	6/1/2029	0.00	0.00	0.00	0.00
GNA_2025_589	DUPR, 2025, D647	DUPR, 2025, 773078	Roadway 115/12 (D)	Caterpillar	Capacity (UCT)	Underground Cable Temperature Mitigation	Install three (3) vaults and recable three (3) 12kV circuits	Primary Feeder - Cable/Conductor	1/1/2027	0.93	2.43	2.41	2.39
GNA_2025_158	DUPR, 2025, DV59	DUPR, 2025 DVAR Plan_29	Bayside 66/12 (D)	Catfish	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	0.39	0.39	0.39	0.00
GNA_2025_502	DUPR, 2025, D317	DDOR, 2024, 659421	Elizabeth Lake 66/16 (D)	Cello	Capacity (UCT)	Underground Cable Temperature Mitigation	Elizabeth Lake 66/16 kV - Clarinet 16 kV - Recable 2 - 16 kV	Primary Feeder - Cable/Conductor	6/1/2026	1.38	1.35	1.18	1.21
GNA_2025_495	DUPR, 2025, D225	DDOR, 2024, 543021	Santiago 66/12 (D)	Centavo	Capacity (UCT)	Underground Cable Temperature Mitigation	Reconductor Franc, Kuna, Schilling, Centavo cable to 1000	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.17
GNA_2025_359	DUPR, 2025, D219	DDOR, 2024, 534563	Temescal P.T. 33/4.16 (A)	Ceramic	Voltage	Voltage Violation Mitigation	Temescal P.T. 33/4.16kV - Partial Outgoing in order to miti	Primary Feeder - Cable/Conductor	6/1/2025	0.82	0.82	0.82	0.82
GNA_2025_321	DUPR, 2025, D483	DUPR, 2025, 634081	Chase 66/12 (D)	Cerrito	Capacity (UCT)	Underground Cable Temperature Mitigation	Chase 66/12 (D) - Mitigate Chase Duct Bank Heating Issues	Primary Feeder - Cable/Conductor	6/1/2026	0.30	0.30	0.26	0.22

U)		Deficiency %					Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
2029 ^a	Units	2025 ^a	2026 ^a	2027 ^a	2028 ^a	2029 ^a							
0.00		0.00%	0.00%	0.00%	0.00%	0.00%	0	0	0	0	0		Existing
0.06	MW	6.52%	6.52%	5.10%	4.00%	2.90%	792	41	1	0	5		Existing
1.52	MW	2.58%	3.23%	10.28%	11.90%	14.21%	2963	193	0	2	7		Existing
2.59	MW						505	255	2	1	38		Existing
2.59	MW						505	255	2	1	38		Existing
1.09	MW	12.25%	11.71%	11.35%	10.69%	10.34%	1692	229	1	0	10		New
0.03		18.92%	14.66%	11.16%	7.66%	4.80%	1692	229	1	0	10		Existing
0.21	MW						1884	205	3	0	24		Existing
0.52	MW	43.93%	43.93%	45.79%	46.73%	48.60%	1197	73	1	0	7		New
3.60	MW	120.69%	120.69%	120.69%	124.14%	124.14%	1197	73	1	0	7		New
1.60	MW						2247	491	1	12	26		Existing
3.83	MW						1641	28	0	1	29		New
25.15	MW						0	0	0	0	0		Existing
0.89	Vpu						0	0	0	0	0		New
25.15	MW						0	0	0	0	0		New
13.17							0	0	0	0	0		Existing
1.67	MW						402	207	1	19	18		New
4.33	MW						402	207	1	19	18		New
4.33	MW						402	207	1	19	18		New
1.00	MW						1118	210	1	0	9		New
2.94	MW						1118	210	1	0	9		New
1.00	MW						1118	210	1	0	9		New
2.94	MW						1118	210	1	0	9		New
1.37	MW						528	224	0	3	19		New
0.00	MW						3407	312	0	2	9		Existing
0.00	MW						3407	312	0	2	9		Existing
0.00	MW						3407	312	0	2	9		Existing
0.00	MW						3407	312	0	2	9		New
0.54	MW						215	127	4	1	33		Existing
1.90		312.01%	312.01%	312.92%	314.82%	317.36%	1385	64	0	7	31		Existing
1.24	MW						1952	335	4	0	12		New
0.94	Vpu						1935	83	1	7	8		New
1.76	MW						523	61	1	1	22		Existing
0.00	MW						1764	141	1	29	8		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	0	0	0	0	0		Existing
0.00	MW						789	108	0	0	17		Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	1340	228	0	0	11		New
0.00	MW						3	128	2	0	9		Existing
1.11	MW						1532	104	0	1	2		New
3.39	MW	16.30%	26.37%	27.35%	28.11%	29.15%	2524	224	0	1	6		New
3.17	MW						340	281	0	1	20		Existing
3.17	MW						340	281	0	1	20		Existing
4.04	MW						601	188	2	2	19		Existing
4.04	MW						601	188	2	2	19		Existing
0.14	MW	3.35%	3.77%	4.60%	5.86%	5.86%	889	28	0	1	7		Existing
0.35							1251	144	1	2	9		Existing
1.48	MW	14.11%	15.29%	16.46%	16.46%	16.69%	2318	91	0	2	18		Existing
1.48	MW	14.11%	15.29%	16.46%	16.46%	16.69%	2318	91	0	2	18		Existing
1.48	MW	14.11%	15.29%	15.96%	16.46%	16.69%	2318	91	0	2	18		New
0.00	MW						3943	379	1	28	20		Existing
0.00	MW						3943	379	1	28	20		New
0.00	MW						3943	379	1	28	20		New
1.04							1275	68	1	1	5		Existing
0.00	MW	40.94%	62.09%	89.17%	0.00%	0.00%	1794	407	0	2	38		Existing
0.30	MW						1464	117	0	1	7		New
1.61	MW	13.24%	15.67%	15.63%	15.59%	15.75%	2086	53	0	1	5		New
1.61	MW	13.24%	15.67%	15.63%	15.59%	15.75%	2086	53	0	1	5		New
10.80	MW						7	5	0	0	0		Existing
0.00	MW						478	148	1	1	6		New
2.37	MW						1332	17	1	0	2		New
0.00							2197	327	2	1	21		Existing
1.21	MW						602	101	1	0	9		Existing
0.15	MW						0	177	1	0	11		Existing
0.82	Vpu	81.67%	81.67%	81.67%	81.67%	81.67%	338	24	0	0	5		Existing
0.17	MW						1121	52	1	1	35		New
0.57	MW						89	180	0	0	36		Existing
0.57	MW						89	180	0	0	36		Existing
18.52	MW						89	180	0	0	36		New
18.52	MW						89	180	0	0	36		New
18.52	MW						89	180	0	0	36		New
11.39	MW						83	69	1	2	26		Existing
11.39	MW						83	69	1	2	26		Existing
0.35	MW						17	95	1	0	3		New
1.09	MW	11.26%	11.09%	10.90%	10.72%	10.55%	2043	89	0	1	5		New
1.72	MW						2107	74	3	2	16		Existing
0.12		166.08%	158.11%	156.88%	155.65%	155.04%	551	6	1	0	0		Existing
2.00	MW						1569	181	5	2	19		Existing
2.00	MW						1569	181	5	2	19		New
0.27							1465	158	1	0	7		Existing
0.00	MW						246	90	0	0	14		New

											Deficiency (MW, MVAR or Vp)			
GNA ID	DUPR ID	DUPR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment to Be Installed	Operating Date	2025 ^a	2026 ^a	2027 ^a	2028 ^a	
GNA_2025_369	DUPR_2025_0673	DUPR_2025_779196	Santa Rosa 115/12 (D)	Clubhouse	Capacity (UCT)	Increase Circuit/Sub Capacity	Santa Rosa 115/12 KV (D) - Lunita 12KV - New DSP Circuit to Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	1.70	3.41	
GNA_2025_369	DUPR_2025_0721	DUPR_2025_8793	Santa Rosa 115/12 (D)	Clubhouse	Capacity (UCT)	Increase Circuit/Sub Capacity	Santa Rosa 115/12 KV (D) - Install one (1) new 12KV circuit Substation - Upgrade Components; Primary Feeder - Capacitor		6/1/2027	0.00	0.00	1.70	3.41	
GNA_2025_554	DUPR_2025_0874	DUPR_2025_DSP37241	Auld 115/12 (D)	Clydesdale	Capacity	Increase Circuit/Sub Capacity	Tenaja 115/12 (D) - Add 1 - 12.0 kV circuit(s) for a total of 9. Substation - Upgrade Components		6/1/2029	0.00	0.00	0.57	0.57	
GNA_2025_477	DUPR_2025_059	DDOR_2022_333226	Crown 66/12 (D)	Coastal	Capacity (UCT)	Underground Cable Temperature Mitigation	Cronej 66/12KV - Gunther 12KV - Re-route Gunther 12KV to Primary Feeder - Cable/Conductor		6/1/2027	1.48	2.37	2.43	2.50	
GNA_2025_419	DUPR_2025_0571	DUPR_2025_722052	Amador 66/4.16 (D)	Cogswell	Capacity (UCT)	Underground Cable Temperature Mitigation	Amador 66/16 KV - Exline 16 KV - Install double runs of 100 Primary Feeder - Cable/Conductor		6/1/2027	0.23	0.22	0.21	0.22	
GNA_2025_419	DUPR_2025_0829	DUPR_2025_8894	Amador 66/4.16 (D)	Cogswell	Capacity (UCT)	Underground Cable Temperature Mitigation	Amador 66/16 KV - Install 4 kV Power Cable Trench Substation - Upgrade Components		12/31/2026	0.23	0.22	0.21	0.22	
GNA_2025_202	DUPR_2025_0464	DUPR_2025_630051	Randall 66/12 (D)	Colleen	Capacity	Increase Circuit/Sub Capacity	Reconductor ~0.3 Miles of 2 & 4 ACSR on Juniper Ave between Primary Feeder - Cable/Conductor		6/1/2026	0.00	0.00	1.37	1.39	
GNA_2025_560	DUPR_2025_067	DDOR_2022_377696	Elsinore 115/12 (D)	Collier	Capacity	Increase Circuit/Sub Capacity	Sophie 12KV - Upgrade 5MVA pole top to 10MVA pole top. Primary Feeder - Cable/Conductor		8/1/2023	0.87	1.09	1.20	1.30	
GNA_2025_420	DUPR_2025_0572	DUPR_2025_722052	Amador 66/4.16 (D)	Columbia	Capacity (UCT)	Underground Cable Temperature Mitigation	Amador 66/16 KV - Exline 16 KV - Install double runs of 100 Primary Feeder - Cable/Conductor		6/1/2027	0.07	0.05	0.04	0.03	
GNA_2025_420	DUPR_2025_0830	DUPR_2025_8894	Amador 66/4.16 (D)	Columbia	Capacity (UCT)	Underground Cable Temperature Mitigation	Amador 66/4 KV - Install 4 kV Power Cable Trench Substation - Upgrade Components		12/31/2026	0.07	0.05	0.04	0.03	
GNA_2025_270	DUPR_2025_080	DDOR_2022_532018	Bullis 66/16 (D)	Colyer	Capacity (UCT)	Increase Circuit/Sub Capacity	Bullis 66/16: Install new 16KV Circuit % Bullis Substation to Primary Feeder - Cable/Conductor		12/31/2026	6.12	7.18	8.53	6.15	
GNA_2025_270	DUPR_2025_0149	DDOR_2022_8501	Bullis 66/16 (D)	Colyer	Capacity (UCT)	Increase Circuit/Sub Capacity	Bullis 66/16 (D) - Install one new 16 KV circuit for a total of 1 Substation - Upgrade Components; Primary Feeder - Capacitor		12/31/2026	6.12	7.18	11.56	9.18	
GNA_2025_118	DUPR_2025_0289	DDOR_2024_634072	Francis 66/12 (D)	Hazel	Capacity	Increase Circuit/Sub Capacity	Francis 66/12 KV (D) - Francis #14 - New DSP circuit needed Primary Feeder - Cable/Conductor		6/1/2026	2.74	2.76	5.09	5.13	
GNA_2025_561	DUPR_2025_0332	DDOR_2024_688021	hyglen 115/12 (D)	Conestoga	Capacity	Increase Circuit/Sub Capacity	hyglen 115/12KV - New DSP Circuit #9 - New circuit traversi Primary Feeder - Cable/Conductor		6/1/2026	0.00	8.46	8.48	12.54	
GNA_2025_562	DUPR_2025_0360	DDOR_2024_8587	hyglen 115/12 (D)	Conestoga	Capacity (UCT)	Increase Circuit/Sub Capacity	hyglen 115/12 (D) - Add 2 - 12.0 kV circuit(s) for a total of 9. Primary Feeder - Cable/Conductor		6/1/2026	0.00	18.72	18.76	23.98	
GNA_2025_561	DUPR_2025_0333	DDOR_2024_688025	hyglen 115/12 (D)	Conestoga	Capacity	Increase Circuit/Sub Capacity	hyglen 115/12KV - New DSP Circuit #8 - New circuit traversi Primary Feeder - Cable/Conductor		6/1/2026	0.00	7.41	7.41	10.89	
GNA_2025_453	DUPR_2025_0365	DDOR_2024_8644	Yucaipa 66/12 (D)	Conine	Capacity (UCT)	Increase Circuit/Sub Capacity	El Casco 115/12 (D) - Install (1) New 12 KV Circuit #6 (Suga Substation - Upgrade Components; Primary Feeder - Capacitor		4/1/2026	0.00	5.35	7.43	8.74	
GNA_2025_690	DUPR_2025_DV37	DDOR_2024_DVAR Plan_9	Industry 66/12 (D)	Conveyor	Reactive Power	Project to Address Reactive Power Concern, New Ca (1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor		8/31/2025	1.91	1.90	1.89	1.89	
GNA_2025_496	DUPR_2025_DV3	DDOR_2024_DVAR Plan_10	North Oaks 66/16 (D)	Copperhead	Reactive Power	Project to Address Reactive Power Concern, New Ca (1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor		8/31/2025	0.00	0.00	0.00	0.00	
GNA_2025_496	DUPR_2025_0226	DDOR_2024_543021	Cordoba	Cordoba	Capacity (UCT)	Underground Cable Temperature Mitigation	Reconductor Franc, Kuna, Schilling, Centavo cable to 100 Primary Feeder - Cable/Conductor		6/1/2025	0.00	0.00	0.00	0.00	
GNA_2025_496	DUPR_2025_0300	DDOR_2024_643445	Santiago 66/12 (D)	Cordoba	Capacity (UCT)	Underground Cable Temperature Mitigation	Upgrade substation getaways to increase getaway capacity Primary Feeder - Cable/Conductor		6/1/2026	0.00	0.00	0.00	0.00	
GNA_2025_283	DUPR_2025_0197	DDOR_2024_532019	Lynwood 16/4.16 (D)	Cornish	Capacity	Increase Circuit/Sub Capacity	Lynwood 16/4 (D) - Reconductor from Sub to Riser 350 CLF Primary Feeder - Cable/Conductor		6/1/2025	0.50	0.50	0.50	0.50	
GNA_2025_284	DUPR_2025_DV47	DUPR_2025_DVAR Plan_18	Lynwood 16/4.16 (D)	Cornish	Reactive Power	Project to Address Reactive Power Concern, New Ca (1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor		8/31/2026	0.51	0.51	0.51	0.51	
GNA_2025_227	DUPR_2025_0264	DDOR_2024_629037	Chestnut 66/12 (D)	Comnut	Capacity (UCT)	Underground Cable Temperature Mitigation	Upgrade substation getaways to increase getaway capacity Primary Feeder - Cable/Conductor		6/1/2026	0.00	0.00	0.59	0.52	
GNA_2025_331	DUPR_2025_0213	DDOR_2024_534037	Jefferson 66/12 (D)	Coronita	Capacity (UCT)	Underground Cable Temperature Mitigation	Jefferson 66/12 (D) - Duct Bank Temperature Mitigation Primary Feeder - Cable/Conductor		6/1/2025	0.00	0.00	0.00	0.00	
GNA_2025_331	DUPR_2025_0896	DUPR_2025_DSP37423	Jefferson 66/12 (D)	Coronita	Capacity (UCT)	Increase Circuit/Sub Capacity	Perez 66/12 KV (D): Build new 66/12 KV compact substation Substation - Upgrade Components; Primary Feeder - Capacitor		6/1/2029	3.39	3.43	3.78	3.83	
GNA_2025_536	DUPR_2025_074	DDOR_2022_477076	Bunker 115/12 (D)	Corporal	Capacity (UCT)	Underground Cable Temperature Mitigation	Bunker 115/12 (D) - New ckt # 12 % Bunker Substation Primary Feeder - Cable/Conductor		6/1/2026	0.00	0.00	4.78	0.00	
GNA_2025_536	DUPR_2025_0156	DDOR_2023_8529	Bunker 115/12 (D)	Corporal	Capacity (UCT)	Underground Cable Temperature Mitigation	Bunker 115/12 (D) - Add 1 - 12KV circuit for a total of 12 circ Primary Feeder - Cable/Conductor		6/1/2025	0.00	0.00	4.78	0.00	
GNA_2025_536	DUPR_2025_0656	DUPR_2025_777209	Bunker 115/12 (D)	Corporal	Capacity (UCT)	Underground Cable Temperature Mitigation	Bunker 115/12 (D) - New Circuit #13 % Bunker Substation Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	5.80	0.00	
GNA_2025_536	DUPR_2025_0658	DUPR_2025_777210	Bunker 115/12 (D)	Corporal	Capacity (UCT)	Underground Cable Temperature Mitigation	Bunker 115/12 (D) - New DSP Circuit #14 - New Circuit to c Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	5.80	0.00	
GNA_2025_536	DUPR_2025_0757	DUPR_2025_8806	Bunker 115/12 (D)	Corporal	Capacity (UCT)	Underground Cable Temperature Mitigation	Bunker 115/12 (D) - Add 2 - 12.0 kV circuit(s) for a total of 1 Substation - Upgrade Components		6/1/2027	0.00	0.00	5.80	0.00	
GNA_2025_463	DUPR_2025_0223	DDOR_2024_539015	Gonzales 66/16 (D)	Corsica	Capacity (UCT)	Underground Cable Temperature Mitigation	Gonzales 66/16 (D) - Ditch 16 KV - Restore automation folc Primary Feeder - Cable/Conductor		6/1/2025	0.00	0.00	0.00	0.00	
GNA_2025_463	DUPR_2025_0298	DDOR_2024_639038	Gonzales 66/16 (D)	Corsica	Capacity (UCT)	Underground Cable Temperature Mitigation	Restore automation following 2024 load roll (Corsica - Ca Primary Feeder - Cable/Conductor		6/1/2026	1.10	0.00	0.00	0.00	
GNA_2025_463	DUPR_2025_0509	DUPR_2025_639033	Gonzales 66/16 (D)	Corsica	Capacity (UCT)	Underground Cable Temperature Mitigation	Gonzales 66/16 (D) - Ditch 16 KV and Alvarado 16 KV Rewor Primary Feeder - Cable/Conductor		6/1/2026	0.00	0.00	0.00	0.00	
GNA_2025_463	DUPR_2025_0837	DUPR_2025_8914	Gonzales 66/16 (D)	Corsica	Capacity (UCT)	Underground Cable Temperature Mitigation	Gonzales 66/16 (D) - Install a blister to reroute Ditch 16 KV Substation - Upgrade Components		6/1/2026	0.00	0.00	0.00	0.00	
GNA_2025_0618	DUPR_2025_742048	Beverly 66/16 (D)	Cory	Capacity	Increase Circuit/Sub Capacity	Equip new 16KV ckt out of Beverly, 1 of 2 Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	0.00	0.00		
GNA_2025_0620	DUPR_2025_742049	Beverly 66/16 (D)	Cory	Capacity	Increase Circuit/Sub Capacity	Equip new 16KV ckt out of Beverly, 2 of 2 Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	0.00	0.00		
GNA_2025_0832	DUPR_2025_8908	Beverly 66/16 (D)	Cory	Capacity	Increase Circuit/Sub Capacity	Beverly 66/16 - Equip (2) 16KV circuits to accommodate On Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	0.00	0.00		
GNA_2025_640	DUPR_2025_0195	DDOR_2024_531053	Mt. Vernon 33/4.16 (D)	Cowen	Capacity	Increase Circuit/Sub Capacity	Mt. Vernon 33/4.16 (D) - Cowen 4KV Overload: Cutover of 1 Primary Feeder - Cable/Conductor		6/1/2025	0.59	0.60	0.62	0.63	
GNA_2025_514	DUPR_2025_035	DDOR_2020_4800	Saugus 66/16 (D)	Crabtree	Capacity (UCT)	Increase Circuit/Sub Capacity	Del Valle 66/16 (D) - Construct a new 66/16.0 KV substat Substation - New Substation; Primary Feeder - Cable/Conductor		4/1/2029	0.00	0.00	0.00	3.38	
GNA_2025_514	DUPR_2025_0315	DDOR_2024_659420	Saugus 66/16 (D)	Crabtree	Capacity (UCT)	Increase Circuit/Sub Capacity	Saugus 220/66/16 KV - Towsley 16 KV - Install switches, str Primary Feeder - Cable/Conductor		7/1/2026	0.00	5.38	5.47	0.00	
GNA_2025_514	DUPR_2025_0363	DDOR_2024_8635	Saugus 66/16 (D)	Crabtree	Capacity (UCT)	Increase Circuit/Sub Capacity	Saugus 66/16 - Add 1-16 kV circuit for a total of 12 circuits Primary Feeder - Cable/Conductor		6/1/2026	0.00	6.41	6.50	3.38	
GNA_2025_432	DUPR_2025_0447	DUPR_2025_626059	Lark Ellen 66/12 (D)	Barbara	Capacity	Increase Circuit/Sub Capacity	Line Extension from the Mossberg to the Barbara Primary Feeder - Cable/Conductor		9/1/2026	0.35	0.30	0.26	0.22	
GNA_2025_082	DDOR_2022_543018	Irvine 66/12 (D)	Cromwell	Capacity (UCT)	Underground Cable Temperature Mitigation	Irvine 66/12KV - Circuit #14 - New DSP Circuit to mitigate PI Primary Feeder - Cable/Conductor		6/1/2025	0.00	0.00	0.00	0.00		
GNA_2025_099	DDOR_2022_8511	Irvine 66/12 (D)	Cromwell	Capacity (UCT)	Underground Cable Temperature Mitigation	Irvine 66/12 (D) - Install one (1) - 12KV DSP Circuit for a tot Primary Feeder - Cable/Conductor		5/1/2025	0.00	0.00	0.00	0.00		
GNA_2025_455	DUPR_2025_0386	DDOR_2024_8715	Camarillo 66/16 (D)	Crosson	Capacity (UCT)	Underground Cable Temperature Mitigation	Camarillo 66/16 (D) - Install a blister to reroute Crosson 16 Substation - Upgrade Components		6/1/2026	0.40	1.60	1.40	3.00	
GNA_2025_455	DUPR_2025_0502	DUPR_2025_639032	Camarillo 66/16 (D)	Crosson	Capacity (UCT)	Underground Cable Temperature Mitigation	Camariello 66/16 (D) - Multiple circuits Reroute and recable Primary Feeder - Cable/Conductor		6/1/2026	0.40	1.60	1.40	3.00	
GNA_2025_340	DUPR_2025_0211	DDOR_2024_534014	Miliken 66/12 (D)	Cuerdo	Capacity (UCT)	Underground Cable Temperature Mitigation	Miliken 66/12 - Sauza - Fix Duct Bank Violations at Miliken Primary Feeder - Cable/Conductor		6/1/2025	2.20	4.59	6.76	9.15	
GNA_2025_340	DUPR_2025_0716	DUPR_2025_8780	Miliken 66/12 (D)	Cuerdo	Capacity (UCT)	Increase Circuit/Sub Capacity	Etiwanda 66/33 (D): Adding 33 KV to Etiwanda Substation Primary Feeder - Cable/Conductor		6/1/2029	0.00	1.67	4.09	6.48	
GNA_2025_413	DUPR_2025_0443	DUPR_2025_551252	Visalia 66/12 (D)	Cutler	Capacity (UCT)	Increase Circuit/Sub Capacity	Visalia 66/12 (D) - Garcia 12KV - DSP - Summer Readiness Primary Feeder - Cable/Conductor		6/1/2025	1.48	1.87	0.80	0.74	
GNA_2025_412	DUPR_2025_0524	DUPR_2025_651621	Visalia 66/12 (D)	Cutler	Capacity	Increase Circuit/Sub Capacity	Visalia 66/12 (D) - Cutler 12 KV - DCU Primary Feeder - Cable/Conductor		6/1/2026	0.28	0.22	0.13	0.09	
GNA_2025_413	DUPR_2025_0543	DUPR_2025_651689	Visalia 66/12 (D)	Cutler	Capacity (UCT)	Increase Circuit/Sub Capacity	Rector 66/12 (D) - Linnell 12KV - DCU Primary Feeder - Cable/Conductor		12/31/2026	0.15	0.52	0.46	0.37	
GNA_2025_633	DUPR_2025_DV49	DUPR_2025_DVAR Plan_2	Dalba P.T. 12/2.4 (A)	Dalba	Reactive Power	Project to Address Reactive Power Concern, New Ca (1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor		8/31/2025	0.13	0.13	0.14	0.14	
GNA_2025_114	DUPR_2025_DV4	DDOR_2024_DVAR Plan_11	Firehouse 66/12 (D)	Dalmatian	Reactive Power	Project to Address Reactive Power Concern, New Ca (1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor		8/31/2025	1.67	1.61	1.57	1.52	
GNA_2025_332	DUPR_2025_0897	DUPR_2025_DSP37423	Jefferson 66/12 (D)	Dana	Capacity (UCT)	Underground Cable Temperature Mitigation	Perez 66/12 KV (D): Build new 66/12 KV compact substation Substation - Upgrade Components; Primary Feeder - Capacitor		6/1/2029	0.87	0.70	0.54	0.22	
GNA_2025_74	DUPR_2025_0434	DUPR_2025_548036	Barre 66/12 (D)	Dandelion	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU to recable substatio getaways to mitigate ductb Primary Feeder - Cable/Conductor		6/1/2025	0.20	0.22	0.26	0.28	
GNA_2025_310	DUPR_2025_0141	DDOR_2023_634065	Archibald 66/12 (D)	Danish	Capacity (UCT)	Increase Circuit/Sub Capacity	Mira Loma 66/12 (D) - Haruna 12KV to offload Archibald an Primary Feeder - Cable/Conductor		6/1/2026	3.59	5.20	5.22	5.26	
GNA_2025_310	DUPR_2025_0704	DUPR_2025_8764	Archibald 66/12 (D)	Danish	Capacity (UCT)	Increase Circuit/Sub Capacity	Mira Loma 66/12 (D) - Add 1 - 12.0 kV circuit(s) for a total of Substation - Upgrade Components		12/31/2026	3.59	5.20	5.22	5.26	
GNA_2025_414	DUPR_2025_0568	DUPR_2025_722052	Amador 66/16 (D)	Daroca	Capacity (UCT)	Underground Cable Temperature Mitigation	Amador 66/16 KV - Exline 16 KV - Install double runs of 100 Primary Feeder - Cable/Conductor		6/1/2027	1.38	1.41	2.29	2.44	
GNA_2025_414	DUPR_2025_0826	DUPR_2025_8894	Amador 66/16 (D)	Daroca	Capacity (UCT)	Underground Cable Temperature Mitigation	Amador 66/4 KV - Install 4 kV Power Cable Trench Substation - Upgrade Components		12/31/2026	1.38	1.41	2.29	2.44	
GNA_2025_160	DUPR_2025_0279	DDOR_2024_633048	Ellis 66/12 (D)	Darwin	Capacity (UCT)	Underground Cable Temperature Mitigation	DCU to resolve Duct Bank Temperature Violations, as well : Primary Feeder - Cable/Conductor		6/1/2026	1.61	1.37	1.13	0.87	
GNA_2025_255	DUPR_2025_0472	DUPR_2025_632063	Vail 66/16 (D)	Davie	Capacity	Increase Circuit/Sub Capacity	Vail 66/16 (D) - New Circuit Adding one new circuit for a tot Primary Feeder - Cable/Conductor		6/1/2027	3.60	4.90	4.80	4.70	
GNA_2025_255	DUPR_2025_0831	DUPR_2025_8900	Vail 66/16 (D)	Davie	Capacity	Increase Circuit/Sub Capacity	Vail 66/16 (D) - Install one (1) new circuit for a total of 11 cir Substation - Upgrade Components; Primary Feeder - Capacitor		12/31/2027	3.60	4.90	4.80	4.70	
GNA_2025_547	DUPR_2025_0374	DDOR_2024_8695	Valley 115/12 (D)	Deacon	Capacity (UCT)	Increase Circuit/Sub Capacity	Valley 115/12 (D) - Add 4 - 12.0 kV circuit(s) for a total of 15 Primary Feeder - Cable/Conductor		6/1/2027	2.43	3.24	4.74	5.80	
GNA_2025_492	DUPR_2025_0663	DUPR_2025_777214	Valley 115/12 (D)	Deacon	Capacity (UCT)	Underground Cable Temperature Mitigation	Valley 115/12 (D) - New DSP Circuit #14 - New circuit to off Primary Feeder - Cable/Conductor		6/1/2027	2.43	3.24	0.00	0.00	
GNA_2025_547	DUPR_2025_0666	DUPR_2025_777215	Valley 115/12 (D)	Deacon	Capacity (UCT)	Underground Cable Temperature Mitigation	Valley 115/12 (D) - New DSP Circuit #15 - New circuit to off Primary Feeder - Cable/Conductor		12/31/2027	2.43	3.24	4.09	5.78	
GNA_2025_366	DUPR_2025_DV46	DUPR_2025_DVAR Plan_17	Indian Wells 115/12 (D)	Deep Canyon	Reactive Power	Project to Address Reactive Power								

U)	2029 ^a	Units	Deficiency %					Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
			2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b							
4.96	MW							246	90	0	0	14		New
4.96	MW							246	90	0	0	14		New
0.59	MW							1261	57	0	2	13		New
2.59	MW							1986	154	0	0	14		Existing
0.24	MW	9.09%	8.70%	8.24%	8.66%	9.45%		900	54	0	0	1		New
0.24	MW	9.09%	8.70%	8.24%	8.66%	9.45%		900	54	0	0	1		New
1.41	MW							1341	378	2	0	31		New
1.20	MW							1383	134	0	2	23		Existing
0.04	MW	2.79%	1.98%	1.58%	1.19%	1.59%		636	152	0	0	10		New
0.04	MW	2.79%	1.98%	1.58%	1.19%	1.59%		636	152	0	0	10		New
6.12	MW							2482	360	0	0	39		Existing
9.15	MW							2482	360	0	0	39		Existing
5.15	MW							769	155	2	3	12		Existing
12.57	MW							1108	154	2	3	19		Existing
24.02	MW							1108	154	2	3	19		Existing
10.91	MW							1108	154	2	3	19		Existing
8.72	MW							1362	118	1	6	10		Existing
1.89								1573	109	2	1	28		Existing
0.00								948	295	1	1	8		Existing
0.98	MW							0	80	0	1	21		Existing
0.70	MW							0	80	0	1	21		Existing
0.50	MW	20.83%	20.83%	20.83%	20.83%	20.83%		732	9	0	0	9		Existing
0.52		226.92%	226.54%	226.67%	227.04%	229.90%		732	9	0	0	9		Existing
0.46	MW							1	62	1	0	13		Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%		2281	84	0	0	41		Existing
3.87	MW	31.77%	32.15%	36.52%	37.00%	37.39%		2281	84	0	0	41		New
0.00	MW	0.00%	0.00%	37.73%	0.00%	0.00%		1849	84	0	0	6		Existing
0.00	MW	0.00%	0.00%	37.73%	0.00%	0.00%		1849	84	0	0	6		Existing
0.00	MW	0.00%	0.00%	49.79%	0.00%	0.00%		1849	84	0	0	6		New
0.00	MW	0.00%	0.00%	49.79%	0.00%	0.00%		1849	84	0	0	6		New
0.00	MW	0.00%	0.00%	49.79%	0.00%	0.00%		1849	84	0	0	6		New
0.00	MW							5657	766	2	4	66		Existing
0.00	MW							5657	766	2	4	66		Existing
0.00	MW							5657	766	2	4	66		New
0.00	MW							5657	766	2	4	66		New
0.00	MW							383	80	1	1	30		New
0.00	MW							383	80	1	1	30		New
0.00	MW							383	80	1	1	30		New
0.63	MW	24.69%	25.10%	25.94%	26.36%	26.36%		503	44	0	0	7		Existing
3.50	MW							1594	309	4	0	33	CAISO: N/A CPUC: SCE submitted an Advice Letter in 2025. SCE: Licensing activities authorized internally in 2015.	Existing
2.47	MW							1594	309	4	0	33		Existing
3.50	MW							1594	309	4	0	33		Existing
0.17	MW							664	60	1	0	13		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%		2448	320	0	0	97		Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%		2448	320	0	0	97		Existing
3.00	MW							1901	427	0	3	32		Existing
3.00	MW							1901	427	0	3	32		New
1.74	MW							389	142	0	0	9		Existing
6.46	MW							389	142	0	0	9		New
0.72	MW	12.37%	15.64%	6.69%	6.19%	6.02%		1737	195	0	41	24		New
0.07	MW	3.10%	2.44%	1.44%	1.00%	0.78%		1737	195	0	41	24		New
0.33	MW	1.28%	4.41%	3.90%	3.13%	2.78%		1737	195	0	41	24		New
0.04								566	16	0	1	0		Existing
1.48								154	346	4	2	43		Existing
0.13	MW							1244	122	1	0	37		New
0.35	MW							1697	132	1	0	13		New
4.11	MW	33.36%	48.33%	48.51%	48.88%	34.36%		1863	45	0	0	23		Existing
4.11	MW	33.36%	48.33%	48.51%	48.88%	34.36%		1863	45	0	0	23		New
2.56	MW							2672	502	5	3	27		New
2.56	MW							2672	502	5	3	27		New
0.00	MW							640	178	6	0	10		Existing
4.60	MW							7	217	10	2	9		New
4.60	MW							7	217	10	2	9		New
7.50	MW							1612	328	2	0	37		Existing
0.00	MW							1612	328	2	0	37		New
7.50	MW							1612	328	2	0	37		New
0.25								325	31	0	1	9		Existing
4.17	MW							1914	137	0	0	21		New
1.90	MW	1.44%	1.44%	2.16%	13.67%	13.67%		2729	614	0	3	40		Existing
0.97		417.10%	418.24%	420.52%	425.84%	432.69%		475	143	1	1	6		Existing
0.94		94.08%	94.08%	94.08%	94.08%	94.08%		475	143	1	1	6		Existing
0.00	MW							2469	163	0	2	8		Existing
0.96	MW	4.83%	7.25%	8.77%	8.77%	9.05%		2027	61	0	1	1		New
5.46	MW							1645	193	0	0	16		Existing
0.39	MW							931	90	1	1	17		Existing
1.28	MW							931	90	1	1	17		New
0.91	MW							931	90	1	1	17		New

											Deficiency (MW, MVAR or Vp)			
GNA ID	DUPR ID	DUPR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment to Be Installed	Operating Date	2025 ^A	2026 ^A	2027 ^A	2028 ^A	
GNA_2025_464	DUPR_2025_D224	DDOR_2024_539015	Gonzales 66/16 (D)	Ditch	Capacity (UCT)	Increase Circuit/Sub Capacity	Gonzales 66/16 (D) - Ditch 16 kV - Restore automation foltc	Primary Feeder - Cable/Conductor	6/1/2025	2.60	3.70	4.30	4.60	
GNA_2025_464	DUPR_2025_D510	DUPR_2025_639033	Gonzales 66/16 (D)	Ditch	Capacity (UCT)	Underground Cable Temperature Mitigation	Gonzales 66/16 (D) - Ditch 16 kV and Alvarado 16 kV Rewor	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.90	1.50	1.80	
GNA_2025_464	DUPR_2025_D838	DUPR_2025_8914	Gonzales 66/16 (D)	Ditch	Capacity (UCT)	Underground Cable Temperature Mitigation	Gonzales 66/16 (D) - Install a blister to reroute Ditch 16 kV	Substation - Upgrade Components	6/1/2026	0.00	0.90	1.50	1.80	
GNA_2025_464	DUPR_2025_DV5	DDOR_2024 DVAR Plan_12	Rosamond 66/12 (D)	Division	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	0.77	0.76	0.77	0.79	
GNA_2025_184	DUPR_2025_D708	DUPR_2025_8780	Declez 66/12 (D)	Dixon	Capacity (UCT)	Increase Circuit/Sub Capacity	Declez 66/33 (D); Adding 33 kV to Etowanda Substation	Primary Feeder - Cable/Conductor	6/1/2029	9.67	12.57	15.63	16.54	
GNA_2025_184	DUPR_2025_D885	DUPR_2025_DSP37295	Declez 66/12 (D)	Dixon	Capacity (UCT)	Increase Circuit/Sub Capacity	Declez 66/12 (D) - Install and equip (1) new 12kV circuit for	Primary Feeder - Cable/Conductor	6/1/2029	2.33	5.24	8.35	9.26	
GNA_2025_103	DUPR_2025_D242	DDOR_2024_547020	Pioneer 12/4.16 (D)	Dohn	Capacity	Increase Circuit/Sub Capacity	Pioneer 12/4 (D) - Partial cutover Dohn 4 kV v Pioneer to E	Primary Feeder - Cable/Conductor	6/1/2025	0.60	0.70	0.70	0.70	
GNA_2025_148	DUPR_2025_DV6	DDOR_2024 DVAR Plan_13	Alhambra 66/4.16 (D)	Dolgeville	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	0.14	0.14	0.15	0.15	
GNA_2025_676	DUPR_2025_D58	DDOR_2022_231807	Colton 66/12 (D)	Domic	Voltage	Voltage Violation Mitigation	Replace existing overloaded voltage regulator with a pad-m	Primary Feeder - Cable/Conductor	9/24/2026	0.92	0.92	0.92	0.92	
GNA_2025_109	DUPR_2025_D241	DDOR_2024_547018	Stewart 66/12 (D)	Donald	Capacity	Increase Circuit/Sub Capacity	Stewart 66/12- Donald 12kV - DSP Project - Installing PS to	Primary Feeder - Cable/Conductor	6/1/2025	1.17	1.13	1.11	1.09	
GNA_2025_451	DUPR_2025_DV68	DUPR_2025 DVAR Plan_6	San Bernardino 66/12 (D)	Dragon	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2026	0.74	0.73	0.71	0.81	
GNA_2025_205	DUPR_2025_D739	DUPR_2025_8799	Randall 66/12 (D)	Dunning	Capacity (UCT)	Increase Circuit/Sub Capacity	Etowanda 66/12 (D) - Install (2) new 12kV circuits for a total	Primary Feeder - Cable/Conductor	6/1/2028	3.41	3.37	3.33	3.28	
GNA_2025_204	DUPR_2025_D745	DUPR_2025_8802	Randall 66/12 (D)	Dunning	Capacity	Increase Circuit/Sub Capacity	Etowanda 66/12 (D) Substation - Add new 28 MVA transform	Substation - Upgrade Components	6/1/2028	1.61	1.57	1.52	1.48	
GNA_2025_139	DUPR_2025_D473	DUPR_2025_632066	Woodruff 12/4.16 (D)	Dunrobin	Capacity	Increase Circuit/Sub Capacity	Woodruff 12/4.16 (D); Dunrobin 4kV Partial Cutover DSP P	Primary Feeder - Cable/Conductor	6/1/2026	0.43	0.37	0.35	0.37	
GNA_2025_381	DUPR_2025_D13	DDOR_2019_934335	Cucamonga 66/12 (D)	Earnhardt	Capacity (UCT)	Increase Circuit/Sub Capacity	Cucamonga 66/12kV - Earnhardt 12kV: Install 1 new 4 v	Primary Feeder - Cable/Conductor	6/30/2025	1.04	0.76	0.83	1.85	
GNA_2025_543	DUPR_2025_D880	DUPR_2025_DSP37252	Nelson 115/12 (D)	Easter	Capacity (UCT)	Increase Circuit/Sub Capacity	Nelson 115/12 (D) - Add 1 -12.0 kV circuit(s) for a total of	Substation - Upgrade Components	6/1/2029	1.02	1.85	2.74	3.63	
GNA_2025_69	DUPR_2025_DV7	DDOR_2024 DVAR Plan_14	Wilsona 66/12 (D)	Eastwind	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	0.25	0.25	0.26	0.26	
GNA_2025_528	DUPR_2025_D669	DUPR_2025_777217	Edwin 66/12 (D)	Edwin	Capacity (UCT)	Underground Cable Temperature Mitigation	Cajalico 115/12 New circuit out of Cajalico to offload Pinew	Primary Feeder - Cable/Conductor	12/31/2027	0.80	0.67	0.52	0.39	
GNA_2025_528	DUPR_2025_D671	DUPR_2025_777218	Alessandro 115/12 (D)	Edwin	Capacity (UCT)	Underground Cable Temperature Mitigation	New DSP circuit #11 (Bonham12kV) to offload Serpentine 1	Primary Feeder - Cable/Conductor	6/1/2027	0.80	0.67	0.52	0.39	
GNA_2025_528	DUPR_2025_D761	DUPR_2025_8809	Edwin 66/12 (D)	Edwin	Capacity (UCT)	Underground Cable Temperature Mitigation	Cajalico 115/12 (D) - Add 2 -12.0 kV circuit(s) for a total of	Primary Feeder - Cable/Conductor	6/1/2027	0.80	0.67	0.52	0.39	
	DUPR_2025_D83	DDOR_2022_543018	Irvine 66/12 (D)	El Toro	Capacity (UCT)	Underground Cable Temperature Mitigation	Irvine 66/12kV - Circuit #14 - New DSP Circuit to mitigate PI	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.00	
	DUPR_2025_D100	DDOR_2022_8511	Irvine 66/12 (D)	El Toro	Capacity (UCT)	Underground Cable Temperature Mitigation	Irvine 66/12 (D) - Install one (1) - 12kV DSP Circuit for a tot	Primary Feeder - Cable/Conductor	5/1/2025	0.00	0.00	0.00	0.00	
	DUPR_2025_D305	DDOR_2024_643446	Irvine 66/12 (D)	El Toro	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP PIF to alleviate DB heating without civil. Part of OC DCI	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.00	0.00	
GNA_2025_486	DUPR_2025_D84	DDOR_2022_543018	Elden 66/12 (D)	Elden	Capacity (UCT)	Increase Circuit/Sub Capacity	Irvine 66/12kV - Circuit #14 - New DSP Circuit to mitigate PI	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	1.63	
GNA_2025_486	DUPR_2025_D101	DDOR_2022_8511	Irvine 66/12 (D)	Elden	Capacity (UCT)	Increase Circuit/Sub Capacity	Irvine 66/12 (D) - Install one (1) - 12kV DSP Circuit for a tot	Primary Feeder - Cable/Conductor	5/1/2025	0.00	0.00	0.00	1.63	
GNA_2025_486	DUPR_2025_D306	DDOR_2024_643446	Irvine 66/12 (D)	Elden	Capacity (UCT)	Increase Circuit/Sub Capacity	DSP PIF to alleviate DB heating without civil. Part of OC DCI	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.00	0.83	
GNA_2025_434	DUPR_2025_D788	DUPR_2025_8828	Lark Ellen 66/12 (D)	Eleanor	Capacity (UCT)	Increase Circuit/Sub Capacity	Lark Ellen 66/12 (D) - Install (1) DSP New 12kV Circuit in Po	Substation - Upgrade Components; Primary Fe	6/1/2027	1.17	1.20	2.07	2.13	
GNA_2025_520	DUPR_2025_D527	DUPR_2025_651649	Bowwood 66/12 (D)	Elster	Capacity	Increase Circuit/Sub Capacity	DSP DCU PIF to address PLL violation on the Elster 12kV v	Primary Feeder - Cable/Conductor	9/1/2026	1.91	1.91	1.93	1.96	
GNA_2025_415	DUPR_2025_D173	DDOR_2024_522059	Amador 66/16 (D)	Enloe	Capacity (UCT)	Increase Circuit/Sub Capacity	Amador 66/16 kV - Enloe 16 kV - Recable Limiting Compon	Primary Feeder - Cable/Conductor	7/1/2025	0.94	1.71	1.59	1.47	
GNA_2025_548	DUPR_2025_D375	DDOR_2024_8695	Valley 115/12 (D)	Ethanac	Capacity (UCT)	Increase Circuit/Sub Capacity	Valley 115/12 (D) - Add 4 -12.0 kV circuit(s) for a total of	Primary Feeder - Cable/Conductor	6/1/2027	0.67	0.96	6.48	10.70	
GNA_2025_548	DUPR_2025_D664	DUPR_2025_777214	Valley 115/12 (D)	Ethanac	Capacity (UCT)	Increase Circuit/Sub Capacity	Valley 115/12 (D) - New DSP Circuit #14 - New circuit to off	Primary Feeder - Cable/Conductor	6/1/2027	0.67	0.96	6.09	10.30	
GNA_2025_548	DUPR_2025_D667	DUPR_2025_777215	Valley 115/12 (D)	Ethanac	Capacity (UCT)	Increase Circuit/Sub Capacity	Valley 115/12 (D) - New DSP Circuit #15 - New circuit to off	Primary Feeder - Cable/Conductor	12/31/2027	0.93	1.74	3.24	4.30	
GNA_2025_436	DUPR_2025_D26	DDOR_2020_027588	Rio Hondo 66/12 (D)	Euphrates	Capacity (UCT)	Underground Cable Temperature Mitigation	Rio Hondo - V5201676 Duct Bank Temperature Violation (1	Primary Feeder - Cable/Conductor	6/1/2025	2.22	1.48	3.76	3.72	
GNA_2025_436	DUPR_2025_D448	DUPR_2025_627069	Rio Hondo 66/12 (D)	Euphrates	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU PIF to address PLL violation on the Elster 12kV v	Primary Feeder - Cable/Conductor	6/1/2026	2.22	1.48	3.76	3.72	
GNA_2025_436	DUPR_2025_D578	DUPR_2025_727141	Rio Hondo 66/12 (D)	Euphrates	Capacity (UCT)	Increase Circuit/Sub Capacity	Rio Hondo 66/12 (D) Install New 12kV circuit to offload Rio	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	1.11	1.07	
GNA_2025_436	DUPR_2025_D789	DUPR_2025_8829	Rio Hondo 66/12 (D)	Euphrates	Capacity (UCT)	Increase Circuit/Sub Capacity	Rio Hondo 66/12 (D) - Install (1) New 12kV DSP Circuit #12	Substation - Upgrade Components; Primary Fe	6/1/2027	0.00	0.00	1.11	1.07	
GNA_2025_456	DUPR_2025_D387	DDOR_2024_8715	Camarillo 66/16 (D)	Evita	Capacity (UCT)	Underground Cable Temperature Mitigation	Camarillo 66/16 (D) - Install a blister to reroute Crosson 16	Substation - Upgrade Components	6/1/2026	0.10	0.30	0.20	0.00	
GNA_2025_456	DUPR_2025_D503	DUPR_2025_639032	Camarillo 66/16 (D)	Evita	Capacity (UCT)	Underground Cable Temperature Mitigation	Camarillo 66/16 (D) - Multiple circuits Reroute and recable	Primary Feeder - Cable/Conductor	6/1/2026	0.10	0.30	0.20	0.00	
GNA_2025_416	DUPR_2025_D569	DUPR_2025_722052	Amador 66/16 (D)	Exline	Capacity (UCT)	Underground Cable Temperature Mitigation	Amador 66/16 kV - Exline 16 kV - Install double runs of 100	Primary Feeder - Cable/Conductor	6/1/2027	3.21	3.18	5.47	5.47	
GNA_2025_416	DUPR_2025_D827	DUPR_2025_8894	Amador 66/16 (D)	Exline	Capacity (UCT)	Underground Cable Temperature Mitigation	Amador 66/4 kV - Install 4 kV Power Cable Trench	Substation - Upgrade Components	12/31/2026	3.21	3.18	5.47	5.47	
GNA_2025_167	DUPR_2025_D394	DDOR_2024_DSP36009	Gisler 66/12 (D)	Explorer	Capacity (UCT)	Underground Cable Temperature Mitigation	Gisler 66/12 kV (D) - Install one (1) New DSP 12 kV Circuit	Substation - Upgrade Components; Primary Fe	6/1/2028	0.00	0.00	0.00	0.17	
GNA_2025_197	DUPR_2025_D275	DDOR_2024_630038	Falcon Ridge 66/12 (D)	Fairlane	Capacity (UCT)	Increase Circuit/Sub Capacity	Falcon Ridge 66/12 - Cutlass 12kV to offload Frisbie 12 kV	Primary Feeder - Cable/Conductor	6/1/2027	1.26	1.89	1.78	2.54	
GNA_2025_197	DUPR_2025_D369	DDOR_2024_8661	Falcon Ridge 66/12 (D)	Fairlane	Capacity (UCT)	Increase Circuit/Sub Capacity	Falcon Ridge 66/12 (D) - Add 1 -12.0 kV circuit(s) for a total	Primary Feeder - Cable/Conductor	12/31/2026	1.26	1.89	1.78	2.54	
GNA_2025_198	DUPR_2025_D415	DDOR_2024_DSP36748	Falcon Ridge 66/12 (D)	Falcon Ridge - 8th Circuit	Capacity	Increase Circuit/Sub Capacity	Falcon Ridge 66/12 (D) - Three (3) new circuits out of Falcon	Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.00	0.57	
GNA_2025_565	DUPR_2025_D653	DUPR_2025_777208	Newcomb 115/12 (D)	Farmington	Capacity (UCT)	Increase Circuit/Sub Capacity	Sun City 115/12 (D) - New Circuit - Halo 12kV - Offload Farr	Primary Feeder - Cable/Conductor	12/31/2027	4.41	9.00	14.72	18.17	
GNA_2025_565	DUPR_2025_D742	DUPR_2025_8801	Newcomb 115/12 (D)	Farmington	Capacity (UCT)	Increase Circuit/Sub Capacity	Sun City 115/12 (D) - Add 2 -12.0 kV circuit(s) for a total of	Primary Feeder - Cable/Conductor	6/1/2027	4.33	8.91	14.65	9.61	
GNA_2025_446	DUPR_2025_D468	DUPR_2025_631079	Highland 66/12 (D)	Cram	Capacity (UCT)	Underground Cable Temperature Mitigation	Extend Norwood 12 kV and create a tie onto Nicole 12kV in	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.15	0.85	0.00	
GNA_2025_216	DUPR_2025_D589	DUPR_2025_730093	Wimbleton 66/12 (D)	Federer	Capacity (UCT)	Increase Circuit/Sub Capacity	Add new 12kV circuit v Wimbleton substation for a total of	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.37	0.87	
GNA_2025_216	DUPR_2025_D824	DUPR_2025_8886	Wimbleton 66/12 (D)	Federer	Capacity (UCT)	Increase Circuit/Sub Capacity	Wimbleton 66/12 (D) - Install two (2) new 12 kV circuits for	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.37	0.87	
GNA_2025_611	DUPR_2025_D280	DDOR_2024_633048	Ellis 66/12 (D)	Ferree	Capacity (UCT)	Underground Cable Temperature Mitigation	DCU to resolve Duct Bank Temperature Violations, as well v	Primary Feeder - Cable/Conductor	6/1/2026	0.15	1.09	2.30	1.02	
GNA_2025_161	DUPR_2025_D285	DDOR_2024_633053	Ellis 66/12 (D)	Ferree	Capacity (UCT)	Underground Cable Temperature Mitigation	Upgrade substation getaways to increase gateway capacity	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	1.04	0.00	
GNA_2025_461	DUPR_2025_D512	DUPR_2025_639043	Colonias 66/16 (D)	Fifth St.	Capacity (UCT)	Increase Circuit/Sub Capacity	Colonias 66/16 (D) - Woodroad 16 kV Line extension from W	Primary Feeder - Cable/Conductor	6/1/2026	0.00	3.30	4.20	6.70	
GNA_2025_426	DUPR_2025_D845	DUPR_2025_8945	Bradbury 66/16 (D)	Fig	Capacity (UCT)	Underground Cable Temperature Mitigation	Bradbury 66/16 (D) - Install new 6-5" conduit & 2 vaults to s	Substation - Upgrade Components	6/1/2027	2.12	2.32	2.20	2.06	
GNA_2025_663	DUPR_2025_D77	DDOR_2022_530023	Bloomington 66/12 (D)	Flatcar	Capacity (UCT)	Increase Circuit/Sub Capacity	Bloomington 66/12 (D) - New 12kV circuit to alleviate duct	Primary Feeder - Cable/Conductor	12/31/2025	4.33	7.13	6.26	6.26	
GNA_2025_663	DUPR_2025_D96	DDOR_2022_8502	Bloomington 66/12 (D)	Flatcar	Capacity (UCT)	Increase Circuit/Sub Capacity	Bloomington 66/12 (D) - Add 1 -12.0 kV circuit(s) for a total	Primary Feeder - Cable/Conductor	12/31/2025	4.33	7.13	6.26	6.26	
GNA_2025_663	DUPR_2025_D454	DUPR_2025_630043	Bloomington 66/12 (D)	Flatcar	Capacity (UCT)	Increase Circuit/Sub Capacity	Bloomington 66/12 (D); Streamliner line extension to offloa	Primary Feeder - Cable/Conductor	12/31/2026	2.10	2.09	2.10	2.10	
GNA_2025_93	DUPR_2025_D7	DDOR_2019_747043	Imperial 66/12 (D)	Fleming	Capacity	Increase Circuit/Sub Capacity	Imperial Substation 66/12kV, 66/4kV Rerouting circuits to r	Primary Feeder - Cable/Conductor	6/1/2025	0.10	1.40	1.40	1.40	
GNA_2025_576	DUPR_2025_DV48	DUPR_2025 DVAR Plan_19	Aqueduct 115/12 (D)	Flue	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2026	1.64	2.06	2.60	2.68	
GNA_2025_457	DUPR_2025_D388	DDOR_2024_8715	Camarillo 66/16 (D)	Flynn	Capacity (UCT)	Underground Cable Temperature Mitigation	Camarillo 66/16 (D) - Install a blister to reroute Crosson 16	Substation - Upgrade Components	6/1/2026	0.00	2.10	1.90	1.30	
GNA_2025_457	DUPR_2025_D504	DUPR_2025_639032	Camarillo 66/16 (D)	Flynn	Capacity (UCT)	Underground Cable Temperature Mitigation	Camarillo 66/16 (D) - Multiple circuits Reroute and recable	Primary Feeder - Cable/Conductor	6/1/2026	0.00	2.10	1.90	1.30	
	DUPR_2025_D576	DUPR_2025_726122	Live Oak 66/12 (D)	Forbes	Capacity (UCT)	Underground Cable Temperature Mitigation	2025 IGPE Forbes 12kV v Live Oak	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.00	
	DUPR_2025_D176	DDOR_2024_522085	Rush 66/16 (D)	Forbid	Capacity (UCT)	Underground Cable Temperature Mitigation	Rush 66/16 kV - Forbid 16 kV - Recable Limiting Componen	Primary Feeder - Cable/Conductor	12/31/2025	1.06	0.94	0.82	0.76	
GNA_2025_221	DUPR_2025_D629	DUPR_2025_746245	State Street 66/12 (D)	Forest	Capacity	Increase Circuit/Sub Capacity	State Street(D) - Forest 12kV - DSP -Ductbank	Primary Feeder - Cable/Conductor	6/1/2027	0.00	1.98	6.17	10.41	
GNA_2025_122	DUPR_2025_D217	DDOR_2024_534555	Kimball 66/12 (D)	Fortress	Capacity (UCT)	Underground Cable Temperature Mitigation	Kimball 66/12 (D) - Fortress circuit - To mitigate duct bank	Primary Feeder - Cable/Conductor	6/1/2025	1.13	1.43	1.54	1.65	
GNA_2025_498	DUPR_2025_D227	DDOR_2024_543021	Santiago 66/12 (D)	Franc	Capacity (UCT)	Underground Cable Temperature Mitigation	Reconductor Franc, Kuna, Schilling, Centawo cable to 100C	Primary Feeder - Cable/Conductor	6/1/2025	3.24	4.78	0.00	0.72	
GNA_2025_498	DUPR_2025_D626	DUPR_2025_743033	Santiago 66/12 (D)	Franc	Capacity (UCT)	Increase Circuit/Sub Capacity	New DSP Circuit #10	Primary Feeder - Cable/Conductor	6/1/2027	2.24	3.78	5.98		

U)	Deficiency %					Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
2029 ^a	Units	2025 ^b	2026 ^b	2027 ^b	2028 ^b							
4.90	MW					2899	174	1	6	13		Existing
2.10	MW					2899	174	1	6	13		New
2.10	MW					2899	174	1	6	13		New
0.82		127.51%	127.23%	128.63%	131.44%	136.69%	1591	60	0	1	7	Existing
12.30	MW	83.80%	110.75%	139.30%	147.42%	109.63%	1045	364	2	1	22	New
0.41	MW	20.46%	46.91%	75.91%	84.18%	3.55%	1045	364	2	1	22	New
0.80	MW	22.22%	25.93%	25.93%	25.93%	29.63%	882	19	0	0	3	Existing
0.15							249	49	0	0	6	Existing
0.92	Vpu						1043	234	3	1	20	Existing
1.07	MW						15	137	2	2	14	Existing
0.80							228	115	0	3	19	Existing
3.26	MW	33.60%	33.20%	32.81%	32.32%	32.18%	1614	118	0	0	13	New
1.43	MW	13.46%	13.13%	12.71%	12.37%	11.96%	1614	118	0	0	13	New
0.40	MW	14.68%	12.63%	11.95%	12.63%	13.65%	848	11	0	0	3	New
2.09	MW						2007	132	0	0	123	Existing
3.65	MW						1887	127	1	12	22	New
0.26							78	11	2	4	1	Existing
0.26	MW						885	170	1	1	24	New
0.26	MW						885	170	1	1	24	New
0.26	MW						885	170	1	1	24	New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	2691	150	0	0	61	Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	2691	150	0	0	61	Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	2691	150	0	0	61	Existing
1.80	MW	0.00%	0.00%	0.00%	16.80%	18.56%	2962	231	0	0	70	Existing
1.80	MW	0.00%	0.00%	0.00%	16.80%	18.56%	2962	231	0	0	70	Existing
0.93	MW	0.00%	0.00%	0.00%	7.85%	8.80%	2962	231	0	0	70	Existing
2.20	MW						2112	110	0	0	13	New
2.00	MW						1154	155	2	57	4	New
1.38	MW						830	207	1	0	33	Existing
11.15	MW						1424	147	0	1	19	Existing
10.91	MW						1424	147	0	1	19	New
6.00	MW						1424	147	0	1	19	New
3.67	MW						2672	194	0	0	22	Existing
3.67	MW						2672	194	0	0	22	New
1.02	MW						2672	194	0	0	22	New
1.02	MW						2672	194	0	0	22	New
0.00	MW						2148	242	1	8	14	Existing
0.00	MW						2148	242	1	8	14	New
5.59	MW	31.44%	31.15%	53.42%	53.42%	54.75%	3596	479	3	3	33	New
5.59	MW	31.44%	31.15%	53.42%	53.42%	54.75%	3596	479	3	3	33	New
1.04	MW	0.00%	0.00%	0.00%	1.56%	9.99%	0	200	3	0	21	Existing
2.48	MW						1808	26	0	0	8	Existing
2.43	MW						1808	26	0	0	8	Existing
0.57	MW	0.00%	0.00%	0.00%	4.77%	4.77%	0	0	0	0	0	Existing
18.54	MW						1659	219	1	5	32	New
9.98	MW						1659	219	1	5	32	New
0.00	MW						1249	45	0	2	18	New
0.91	MW						2438	125	0	1	10	New
0.91	MW						2438	125	0	1	10	New
0.91	MW						1203	131	0	0	38	Existing
0.35	MW						1203	131	0	0	38	Existing
8.50	MW						11	147	0	6	6	New
2.12	MW						1035	289	2	0	16	New
2.74	MW						518	195	0	0	18	Existing
2.74	MW						518	195	0	0	18	Existing
2.10	MW						518	195	0	0	18	New
1.30	MW						753	335	2	0	28	Existing
2.69							971	53	0	0	5	Existing
1.20	MW						1431	556	1	6	8	Existing
1.20	MW						1431	556	1	6	8	New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	1119	211	0	0	23	New
0.71	MW	7.69%	6.82%	5.93%	5.50%	5.14%	2481	631	17	1	14	Existing
14.65	MW						311	374	15	2	28	New
1.65	MW						2411	164	1	2	25	Existing
0.76	MW						2118	245	0	0	33	Existing
8.89	MW						2118	245	0	0	33	New
8.89	MW						2118	245	0	0	33	New
0.71	MW						1631	337	0	4	19	Existing
0.39	MW						1421	20	0	0	9	Existing
0.39	MW						1421	20	0	0	9	New
0.57	MW						2642	290	2	0	27	Existing
1.28	MW						1896	81	0	1	16	Existing
1.96	MW						1896	81	0	1	16	New
7.39	MW						726	109	2	5	17	New
3.26	MW						2491	275	1	0	15	New
3.26	MW						2491	275	1	0	15	New
0.40	MW	7.69%	12.00%	7.69%	16.00%	16.00%	943	20	0	0	10	Existing
1.28	MW	75.15%	75.76%	73.33%	75.15%	77.58%	664	91	0	0	8	Existing
9.59	MW						945	125	0	1	17	New
7.72	MW						854	191	2	0	7	New

										Deficiency (MW, MVAR or V%)			
GNA ID	DUPR ID	DUPR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment to Be Installed	Operating Date	2025 ^A	2026 ^A	2027 ^A	2028 ^A
GNA_2025_691	DUPR_2025_D794	DUPR_2025_8831	Nogales 66/12 (D)	Gartel	Capacity (UCT)	Increase Circuit/Sub Capacity	Nogales 66/12 (D) - Install (1) New 12kV Circuit at position	Substation - Upgrade Components; Primary Fe	6/1/2027	3.41	3.46	3.52	3.59
GNA_2025_89	DUPR_2025_D631	DUPR_2025_747088	Gallatin 66/12 (D)	Gaspar	Capacity	Increase Circuit/Sub Capacity	Gallatin 66/12 (D)- Gaspar 12 kV and Stokes 12 kV : DCU t	Primary Feeder - Cable/Conductor	6/1/2027	0.70	0.80	0.80	0.90
GNA_2025_509	DUPR_2025_D33	DDOR_2020_4800	Newhall 66/16 (D)	Gavin	Capacity (UCT)	Increase Circuit/Sub Capacity	Del Valle 66/16 (D) - Construct a new 66.0/16.0 kV subst	Substation - New Substation; Primary Feeder -	4/13/2029	0.00	0.00	0.00	0.00
GNA_2025_402	DUPR_2025_D252	DDOR_2024_551184	Riverway 66/12 (D)	Gila	Capacity (UCT)	Underground Cable Temperature Mitigation	Chatham 66/12 (D) - Virgil 12 kV - Re-conductor to Facilitate	Primary Feeder - Cable/Conductor	6/1/2025	0.57	0.61	0.65	0.80
GNA_2025_305	DUPR_2025_D564	DUPR_2025_722022	Rosemead 66/16 (D)	Gladys	Capacity	Increase Circuit/Sub Capacity	Rosemead 66/16 kV - Gladys 16 kV - Recable Limiting Co	Primary Feeder - Cable/Conductor	6/1/2027	14.50	14.50	14.50	14.50
	DUPR_2025_DV8	DDOR_2024_DVAR Plan_15	Laguna Bell 66/16 (D)	Glass	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2025	0.00	0.00	0.00	0.00
GNA_2025_302	DUPR_2025_D177	DDOR_2024_522086	Repetto 66/16 (D)	Gleason	Capacity	Increase Circuit/Sub Capacity	Repetto 66/16 kV - Gleason 16 kV - Install RSR and Relocat	Primary Feeder - Cable/Conductor	12/31/2025	0.00	0.00	0.00	0.18
GNA_2025_677	DUPR_2025_D118	DDOR_2023_531046	Colton 66/12 (D)	Globe Mills	Capacity (UCT)	Increase Circuit/Sub Capacity	Colton 66/12 - Mansa 12 kV - Extend Circuit Approximately	Primary Feeder - Cable/Conductor	6/1/2026	9.83	10.50	10.50	3.28
	DUPR_2025_D19	DDOR_2019_977271	Newcomb 115/12 (D)	Goetz	Capacity (UCT)	Increase Circuit/Sub Capacity	Newcomb 115/12 - Oakdale 12kV - TPS PIF: OCP, WCR, an	Primary Feeder - Cable/Conductor	1/1/2026	0.00	0.00	0.00	0.00
GNA_2025_609	DUPR_2025_DV9	DDOR_2024_DVAR Plan_16	Limestone 66/12 (D)	Gold	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2025	3.17	3.14	3.11	3.09
GNA_2025_609	DUPR_2025_DV61	DUPR_2025_DVAR Plan_30	Limestone 66/12 (D)	Gold	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2026	2.78	2.77	2.77	2.76
GNA_2025_447	DUPR_2025_D469	DUPR_2025_631079	Highland 66/12 (D)	Goldbuckle	Capacity (UCT)	Underground Cable Temperature Mitigation	Extend Norwood 12 kV and create a tie onto Nicole 12kV in	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.43	0.83	0.00
	DUPR_2025_D609	DUPR_2025_735199	Thousand Oaks 66/16 (D)	Goldsmith	Capacity	Increase Circuit/Sub Capacity	Thousand Oaks 66/16 (D) - DSP - Westlake 16 kV - Install on	Primary Feeder - Cable/Conductor	12/31/2027	0.00	0.00	0.00	0.00
	DUPR_2025_D778	DUPR_2025_8821	Thousand Oaks 66/16 (D)	Goldsmith	Capacity	Increase Circuit/Sub Capacity	Thousand Oaks 66/16 (D) - DSP - Install (1) one new 16 kV	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.00
GNA_2025_400	DUPR_2025_D254	DDOR_2024_551217	Rector 66/12 (D)	Gordon	Capacity	Increase Circuit/Sub Capacity	Rector 66/12 (D) - Gordon 12 kV - Install new RSR for post-t	Primary Feeder - Cable/Conductor	12/31/2025	1.00	1.65	2.37	2.28
GNA_2025_684	DUPR_2025_D186	DDOR_2024_530064	Glen Avon 66/12 (D)	Gowan	Capacity (UCT)	Increase Circuit/Sub Capacity	Glen Avon 66/12 (D): Gowan 12 kV - Mitigation duct bank v	Primary Feeder - Cable/Conductor	6/1/2025	2.61	2.59	3.41	2.28
GNA_2025_684	DUPR_2025_D871	DUPR_2025_DSP37229	Glen Avon 66/12 (D)	Gowan	Capacity (UCT)	Increase Circuit/Sub Capacity	Glen Avon 66/12 (D) - Increase Substation Capacity from 8-	Substation - Upgrade Components; Primary Fe	12/31/2028	0.00	0.00	0.00	0.00
GNA_2025_697	DUPR_2025_D426	DUPR_2025_526022	Walnut 66/12 (D)	Grazide	Capacity (UCT)	Underground Cable Temperature Mitigation	Double run the Grazide circuit from the substation cable t	Primary Feeder - Cable/Conductor	6/1/2025	3.91	3.91	3.93	4.02
GNA_2025_696	DUPR_2025_D446	DUPR_2025_626053	Walnut 66/12 (D)	Grazide	Capacity	Increase Circuit/Sub Capacity	Install RCS to transfer load from Grazide to Stafford	Primary Feeder - Cable/Conductor	6/1/2026	1.91	2.13	2.11	2.09
GNA_2025_487	DUPR_2025_D307	DDOR_2024_643446	Irvine 66/12 (D)	Great Park	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP PIF to alleviate DB heating without civil. Part of OC	DCI Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.59	0.74
GNA_2025_634	DUPR_2025_DV38	DUPR_2025_DVAR Plan_1	Green Bear P.T. 12/2.4 (A)	Green Bear	Reactive Power	Project to Address Reactive Power Concern, New Ca	(2) New Capacitors On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	0.26	0.27	0.28	0.29
GNA_2025_467	DUPR_2025_D296	DDOR_2024_639034	San Miguel 66/16 (D)	Gringo	Capacity (UCT)	Underground Cable Temperature Mitigation	Needed to restore automation after 2024 load roll (Diablo	Primary Feeder - Cable/Conductor	6/1/2026	1.70	1.70	1.70	1.00
GNA_2025_154	DUPR_2025_DV39	DUPR_2025_DVAR Plan_10	El Nido 66/16 (D)	Grizzley	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	0.90	1.13	1.80	1.89
GNA_2025_407	DUPR_2025_D437	DUPR_2025_551190	Tulare 66/12 (D)	Guernsey	Capacity (UCT)	Underground Cable Temperature Mitigation	Liberty 66/12 (D) - Mid Valley 12 kV - Install RAR to raise PLL	Primary Feeder - Cable/Conductor	12/31/2025	0.52	0.44	0.32	0.23
GNA_2025_407	DUPR_2025_D538	DUPR_2025_551673	Tulare 66/12 (D)	Guernsey	Capacity (UCT)	Underground Cable Temperature Mitigation	Tulare 66/12 (D) - Rinker 12kV - Replace 1000 CLP Aluminu	Primary Feeder - Cable/Conductor	12/31/2026	0.52	0.00	0.00	0.00
GNA_2025_333	DUPR_2025_D214	DDOR_2024_534037	Jefferson 66/12 (D)	Guinness	Capacity (UCT)	Underground Cable Temperature Mitigation	Jefferson 66/12 (D) - Duct Bank Temperature Mitigation	Primary Feeder - Cable/Conductor	6/1/2025	0.61	0.83	0.85	0.87
GNA_2025_504	DUPR_2025_D32	DDOR_2020_4800	Elizabeth Lake 66/16 (D)	Guitar	Capacity (UCT)	Increase Circuit/Sub Capacity	Del Valle 66/16 (D) - Construct a new 66.0/16.0 kV subst	Substation - New Substation; Primary Feeder -	4/13/2029	0.00	0.00	0.00	0.00
GNA_2025_274	DUPR_2025_D205	DDOR_2024_532030	Bullis 66/4.16 (D)	Gunlock	Capacity	Increase Circuit/Sub Capacity	Recable getaway to 500 EPR Gunlock 4 kV, Pattie 4 kV, Agn	Primary Feeder - Cable/Conductor	12/31/2025	0.20	0.20	0.30	0.30
GNA_2025_478	DUPR_2025_D60	DDOR_2022_333226	Crown 66/12 (D)	Gunther	Capacity (UCT)	Underground Cable Temperature Mitigation	Crown 66/12kV - Gunther 12kV - Re-route Gunther 12kV th	Primary Feeder - Cable/Conductor	6/1/2027	1.20	1.04	1.04	1.11
GNA_2025_382	DUPR_2025_D14	DDOR_2019_934335	Cucamonga 66/12 (D)	Gurney	Capacity (UCT)	Underground Cable Temperature Mitigation	Cucamonga 66/12kV - Earnhardt 12kV: Install 1 new 4 v	Primary Feeder - Cable/Conductor	6/30/2025	0.61	0.80	0.91	1.00
GNA_2025_76	DUPR_2025_D248	DDOR_2024_548041	Ely 66/12 (D)	Haiti	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU PIF to install new ductbank system to mitigate du	Primary Feeder - Cable/Conductor	6/1/2025	0.83	0.78	0.74	0.78
GNA_2025_482	DUPR_2025_D125	DDOR_2023_543017	Estrella 66/12 (D)	Haley	Capacity (UCT)	Underground Cable Temperature Mitigation	Estrella 66/12kV - Horoscope 12kV - Re-conductor & Circuit	Primary Feeder - Cable/Conductor	6/1/2025	0.00	2.28	0.00	0.00
GNA_2025_448	DUPR_2025_D470	DUPR_2025_631079	Highland 66/12 (D)	Norwood	Capacity (UCT)	Increase Circuit/Sub Capacity	Extend Norwood 12 kV and create a tie onto Nicole 12kV in	Primary Feeder - Cable/Conductor	6/1/2026	0.54	1.78	2.24	1.33
GNA_2025_323	DUPR_2025_D818	DUPR_2025_8870	Chase 66/12 (D)	Harlow	Capacity (UCT)	Underground Cable Temperature Mitigation	Corona 66/33 kV (D) - Add (1) 3 kV circuit for a total of (6)	Substation - Upgrade Components; Primary Fe	6/1/2027	1.04	1.00	0.87	0.72
GNA_2025_395	DUPR_2025_D20	DDOR_2019_977271	Newcomb 115/12 (D)	Hamage	Capacity (UCT)	Increase Circuit/Sub Capacity	Newcomb 115/12 - Oakdale 12kV - TPS PIF: OCP, WCR, an	Primary Feeder - Cable/Conductor	1/1/2026	0.00	0.00	0.00	0.00
GNA_2025_395	DUPR_2025_D536	DUPR_2025_651671	Goshen 66/12 (D)	Harrell	Capacity (UCT)	Underground Cable Temperature Mitigation	Goshen 66/12 (D) - Harrell 12kV - Replace 1000 JCN Alumin	Primary Feeder - Cable/Conductor	12/31/2026	2.13	3.63	6.63	0.00
GNA_2025_395	DUPR_2025_D636	DUPR_2025_751243	Goshen 66/12 (D)	Harrell	Capacity (UCT)	Increase Circuit/Sub Capacity	Goshen 66/12 kV (D) - Watermill 12 kV - DSP - New Circuit	Primary Feeder - Cable/Conductor	12/31/2027	1.52	3.02	6.02	9.30
GNA_2025_395	DUPR_2025_D810	DUPR_2025_8850	Goshen 66/12 (D)	Harrell	Capacity (UCT)	Increase Circuit/Sub Capacity	Goshen 66/12 kV (D) - Install one (1) new DSP 12 kV circuit	Substation - Upgrade Components; Primary Fe	6/1/2027	1.52	3.02	6.02	9.30
GNA_2025_537	DUPR_2025_D650	DUPR_2025_777206	Bunker 115/12 (D)	Harrier	Capacity (UCT)	Increase Circuit/Sub Capacity	New Circuit #5 to offload Soggy 12kV and to create capac	Primary Feeder - Cable/Conductor	12/31/2027	0.83	5.67	13.30	13.30
GNA_2025_537	DUPR_2025_D765	DUPR_2025_8810	Bunker 115/12 (D)	Harrier	Capacity (UCT)	Increase Circuit/Sub Capacity	Lakeview 115/12 (D) - Add 2 -12.0 kV circuit(s) for a total	of Primary Feeder - Cable/Conductor	6/1/2027	0.83	5.67	13.30	13.30
GNA_2025_207	DUPR_2025_D740	DUPR_2025_8799	Randal 66/12 (D)	Hasty	Capacity (UCT)	Increase Circuit/Sub Capacity	Etswana 66/12 (D) - Install (2) new 12kV circuits for a total	Primary Feeder - Cable/Conductor	6/1/2028	2.41	2.46	2.50	1.91
GNA_2025_206	DUPR_2025_D746	DUPR_2025_8802	Randal 66/12 (D)	Hasty	Capacity	Increase Circuit/Sub Capacity	Etswana 66/12 (D) Substation - Add new 28 MVA transform	Substation - Upgrade Components	6/1/2028	0.39	0.41	0.46	0.50
GNA_2025_595	DUPR_2025_D349	DDOR_2024_8573	Savage 115/12 (D)	Hatchery	Capacity (UCT)	Underground Cable Temperature Mitigation	Savage 115/12 kV (D) - Install New Blister East of Cable Tre	Substation - Upgrade Components	12/31/2025	2.74	2.65	0.43	0.35
GNA_2025_411	DUPR_2025_D542	DUPR_2025_651684	Venida 66/12 (D)	Hays	Capacity	Increase Circuit/Sub Capacity	Venida 66/12 (D) - Hays 12kV - DCU	Primary Feeder - Cable/Conductor	12/31/2026	0.11	0.11	0.11	0.13
GNA_2025_383	DUPR_2025_D480	DUPR_2025_634079	Cucamonga 66/12 (D)	Hanks	Capacity (UCT)	Increase Circuit/Sub Capacity	Garlits 12kV - Install new RCS switch on GS1619 POS 3 w	Primary Feeder - Cable/Conductor	6/1/2026	0.00	5.28	5.15	5.11
GNA_2025_118	DUPR_2025_D357	DDOR_2024_8584	Francis 66/12 (D)	Hazel	Capacity	Increase Circuit/Sub Capacity	Francis 66/12 kV (D) - Install one (1) new DSP 12 kV circ	uits; Primary Feeder - Cable/Conductor	12/31/2026	2.74	2.76	5.09	5.13
GNA_2025_133	DUPR_2025_D516	DUPR_2025_646075	Heartwell P.T. 12/4.16 (A)	Heartwell	Capacity	Increase Circuit/Sub Capacity	Heartwell P.T. 12/4.16 - Heartwell 4kV - Re-conductor Mainl	Primary Feeder - Cable/Conductor	6/1/2027	0.30	0.31	0.33	0.34
GNA_2025_317	DUPR_2025_D117	DDOR_2023_530027	Bain 66/12 (D)	Heftler	Capacity (UCT)	Underground Cable Temperature Mitigation	Bain 66/12 (D) - Circuit #9 to Offload Heftler 12kV circuit	an Primary Feeder - Cable/Conductor	12/31/2026	1.59	3.59	3.50	3.46
GNA_2025_317	DUPR_2025_D703	DUPR_2025_8763	Bain 66/12 (D)	Heftler	Capacity (UCT)	Increase Circuit/Sub Capacity	Bain 66/12 (D) - Add 1 -12.0 kV circuit(s) for a total of 9.	Primary Feeder - Cable/Conductor	12/31/2026	1.59	3.59	3.50	3.46
GNA_2025_523	DUPR_2025_D530	DUPR_2025_651658	Porterville 66/12 (D)	Henderson	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU PIF to recable all circuit getaways from 1000 JCN	Primary Feeder - Cable/Conductor	11/1/2026	0.54	1.50	0.59	0.83
GNA_2025_523	DUPR_2025_D639	DUPR_2025_751246	Porterville 66/12 (D)	Henderson	Capacity (UCT)	Increase Circuit/Sub Capacity	Porterville 66/12 (D) - Goodhue 12 kV - New DSP Circuit	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.09	1.33	1.57
GNA_2025_523	DUPR_2025_D815	DUPR_2025_8854	Porterville 66/12 (D)	Henderson	Capacity (UCT)	Increase Circuit/Sub Capacity	Porterville 66/12 kV (D) - One (1) new DSP 12 kV circuit	out Substation - Upgrade Components	6/1/2027	0.00	0.09	1.33	1.57
GNA_2025_664	DUPR_2025_D78	DDOR_2022_530023	Bloomington 66/12 (D)	Highball	Capacity	Increase Circuit/Sub Capacity	Bloomington 66/12 (D) - New 12kV circuit to alleviate duct	Primary Feeder - Cable/Conductor	12/31/2025	0.28	0.87	0.76	0.65
GNA_2025_664	DUPR_2025_D97	DDOR_2022_8502	Bloomington 66/12 (D)	Highball	Capacity	Increase Circuit/Sub Capacity	Bloomington 66/12 (D) - Add 1 -12.0 kV circuit(s) for a total	Primary Feeder - Cable/Conductor					

U)		Deficiency %					Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
2029 ^a	Units	2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b							
3.67	MW						854	191	2	0	7		New
1.00	MW						601	117	3	0	3		New
6.59	MW						694	194	1	4	13	CAISO: N/A CPUC: SCE submitted an Advice Letter in 2025. SCE: Licensing activities authorized internally in 2015.	Existing
0.89	MW						2061	115	2	5	5		Existing
14.50	MW						2858	454	8	2	27		New
0.00							0	9	0	0	1		Existing
2.91	MW						1941	349	11	0	49		Existing
3.30	MW						1548	208	1	4	22		Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	1928	36	1	0	13		Existing
3.07		527.80%	523.02%	518.68%	514.68%	510.95%	0	132	0	0	0		Existing
2.76		308.43%	307.76%	307.36%	307.20%	307.05%	0	132	0	0	0		Existing
0.00	MW						1751	144	1	0	36		New
0.00	MW						3071	169	0	2	11		New
0.00	MW						3071	169	0	2	11		New
2.22	MW	8.36%	13.80%	19.82%	19.06%	18.56%	1366	20	0	3	4		Existing
2.24	MW						1387	179	1	1	19		Existing
2.30	MW						1387	179	1	1	19		New
4.09	MW						1445	66	0	0	13		New
2.07	MW						1445	66	0	0	13		New
0.87	MW						527	93	1	0	0		Existing
0.31		352.64%	359.39%	370.43%	386.37%	409.68%	649	16	0	1	2		Existing
1.00	MW						5001	757	2	2	63		Existing
1.99							3246	471	4	1	37		Existing
0.17	MW						1252	207	0	2	15		New
0.00	MW						1252	207	0	2	15		New
0.89	MW						1222	98	0	1	26		Existing
0.38	MW						36	167	7	4	23	CAISO: N/A CPUC: SCE submitted an Advice Letter in 2025. SCE: Licensing activities authorized internally in 2015.	Existing
0.40	MW	8.70%	8.70%	13.04%	13.04%	17.39%	943	118	0	0	4		Existing
1.20	MW						2608	420	3	1	37		Existing
1.35	MW						1621	153	1	0	23		Existing
0.76	MW						367	120	0	0	2		Existing
0.00	MW						0	29	0	0	4		Existing
1.39	MW						2118	112	0	1	8		New
0.57	MW						185	186	1	0	32		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	2118	105	0	1	19		Existing
0.00	MW						677	123	2	20	11		New
10.18	MW						677	123	2	20	11		New
10.18	MW						677	123	2	20	11		New
13.24	MW						2204	129	0	0	15		New
13.24	MW						2204	129	0	0	15		New
2.07	MW						1557	100	0	2	17		New
0.57	MW						1557	100	0	2	17		New
0.28	MW						0	330	1	0	12		Existing
0.15	MW	1.05%	1.05%	1.05%	1.25%	1.44%	1330	126	2	41	5		New
5.04	MW						0	237	2	1	3		New
5.15	MW						769	155	2	3	12		Existing
0.37	MW	27.08%	28.47%	29.86%	31.25%	33.33%	314	1	0	0	1		New
3.41	MW						107	132	0	0	14		Existing
3.41	MW						107	132	0	0	14		New
0.76	MW						643	159	1	89	12		New
1.54	MW						643	159	1	89	12		New
1.54	MW						643	159	1	89	12		New
0.57	MW						1529	106	0	0	20		Existing
0.57	MW						1529	106	0	0	20		Existing
0.43	MW						1529	106	0	0	20		New
0.30	MW	0.00%	0.00%	0.00%	0.00%	2.31%	4895	219	0	6	33		New
0.30	MW	0.00%	0.00%	0.00%	0.00%	2.31%	4895	219	0	6	33		New
0.60	MW						881	54	3	0	45		New
0.60	MW						881	54	3	0	45		New
0.60	MW						881	54	3	0	45		New
0.72	MW						3729	241	0	0	58		Existing
0.72	MW						3729	241	0	0	58		Existing
0.00	MW						3729	241	0	0	58		Existing
1.74	MW						1528	186	2	1	29		Existing
1.74	MW						1528	186	2	1	29		New
0.00	MW						1647	759	4	2	26		New
2.91	MW	0.00%	17.80%	17.80%	17.80%	17.99%	2081	218	1	0	24		New
0.65	MW						3047	127	1	5	9		New
0.37	MW						2452	115	1	0	17		Existing
0.13	MW						2452	115	1	0	17		New
0.85	MW						2452	115	1	0	17		New
1.89	MW						2411	239	0	0	46		Existing
0.28	MW						404	172	6	1	19		Existing
2.02	MW						404	172	6	1	19		New

										Deficiency (MW, MVAR or V%)			
GNA ID	DUPR ID	DUPR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment to Be Installed	Operating Date	2025 ^A	2026 ^A	2027 ^A	2028 ^A
GNA_2025_115	DUPR_2025_D806	DUPR_2025_8848	Firehouse 66/12 (D)	Hose	Capacity	Increase Circuit/Sub Capacity	Narod 66/12 kV (D) - Install (1) new 12 kV Circuit (for a total Substation - Upgrade Components; Primary Feeder - Capacitor	6/1/2027	0.00	2.07	2.04	2.04	
GNA_2025_612	DUPR_2025_DV10	DDOR_2024 DVAR Plan_17	Bryan 66/12 (D)	Hudson	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2025	3.26	3.23	3.20	3.18
GNA_2025_428	DUPR_2025_D180	DDOR_2024_527047	Bradbury 66/16 (D)	Hurstview	Capacity (UCT)	Underground Cable Temperature Mitigation	Bradbury 66/16 (D) - Reroute Bateman and Hurstview 16 kV Primary Feeder - Cable/Conductor	12/1/2025	2.38	2.56	2.59	2.62	
GNA_2025_428	DUPR_2025_D844	DUPR_2025_8929	Bradbury 66/16 (D)	Hurstview	Capacity (UCT)	Underground Cable Temperature Mitigation	Bradbury 66/16 (D) - Install a new blister with approximate Substation - Upgrade Components	12/31/2025	2.38	2.56	2.59	2.62	
GNA_2025_312	DUPR_2025_D860	DUPR_2025_DSP35936	Archibald 66/12 (D)	Imbach	Capacity	Increase Circuit/Sub Capacity	Archibald 66/12 (D) - Add 1 -12.0 kV circuit(s) for a total of : Primary Feeder - Cable/Conductor	6/1/2028	2.09	2.09	2.10	2.11	
GNA_2025_199	DUPR_2025_D416	DDOR_2024_DSP36748	Falcon Ridge 66/12 (D)	Impala	Capacity (UCT)	Increase Circuit/Sub Capacity	Falcon Ridge 66/12 (D) -Three (3) new circuits out of Falcor Primary Feeder - Cable/Conductor	6/1/2028	7.00	7.00	7.02	7.02	
GNA_2025_234	DUPR_2025_D57	DDOR_2021_8369	Baker 115/12 (D)	Inn	Capacity	Increase Circuit/Sub Capacity	Baker 115/12 (D) - Baker Substation Interim SolutionPhase Substation - Upgrade Components	12/31/2027	6.30	10.98	16.63	22.35	
GNA_2025_234	DUPR_2025_D321	DDOR_2024_672022	Baker 115/12 (D)	Inn	Capacity	Increase Circuit/Sub Capacity	New DSP Circuit - Baker 115/12 (D) (#3) - New 12kV Circuit Primary Feeder - Cable/Conductor	6/1/2026	6.30	10.98	16.63	22.35	
GNA_2025_590	DUPR_2025_D648	DUPR_2025_773078	Roadway 115/12 (D)	International	Capacity (UCT)	Underground Cable Temperature Mitigation	Install three (3) vaults and recable three (3) 12kV circuits (F Primary Feeder - Cable/Conductor	1/1/2027	0.91	0.87	0.80	0.74	
GNA_2025_138	DUPR_2025_D474	DUPR_2025_632068	Somerset 66/4.16 (D)	Iowa	Capacity	Increase Circuit/Sub Capacity	Somerset 16/4.16 - Partial Cutover of 34 transformers from Primary Feeder - Cable/Conductor	6/1/2026	0.36	0.36	0.36	0.37	
GNA_2025_253	DUPR_2025_D196	DDOR_2024_532017	Gage 16/4.16 (D)	Ira	Capacity	Increase Circuit/Sub Capacity	Gage 16/4.16: Ira Partial Cutover Partial cutover Ira 4kV % (Primary Feeder - Cable/Conductor	6/1/2025	0.50	0.50	0.50	0.60	
GNA_2025_142	DUPR_2025_D549	DUPR_2025_679044	Palm Canyon 33/12 (D)	Cantina	Capacity (UCT)	Increase Circuit/Sub Capacity	Cantina 12kV is showing duct bank temperatures above 90 Primary Feeder - Cable/Conductor	6/1/2026	0.93	0.96	1.00	1.04	
GNA_2025_617	DUPR_2025_D770	DUPR_2025_8818	Modena 66/12 (D)	Iran	Capacity (UCT)	Increase Circuit/Sub Capacity	Modena 66/12 (D) - Adding one (1) new 12 kV line, extend 1 Substation - Upgrade Components; Primary Fe 6/1/2027	1/31/2027	1.37	1.46	1.57	1.65	
GNA_2025_D459	DUPR_2025_630044	DUPR_2025_630044	Bloomington 66/12 (D)	Ironhorse	Capacity (UCT)	Underground Cable Temperature Mitigation	Bloomington 66/12 (D): Duct Bank Project to re-cable multi Primary Feeder - Cable/Conductor	12/31/2026	0.00	0.00	0.00	0.00	
GNA_2025_489	DUPR_2025_D309	DDOR_2024_643446	Irvine 66/12 (D)	Irvine Ckt #14	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP PIF to alleviate DB heating without civil. Part of OC DCI Primary Feeder - Cable/Conductor	6/1/2026	1.67	0.00	0.13	0.39	
GNA_2025_77	DUPR_2025_D249	DDOR_2024_548041	Ely 66/12 (D)	Jamaica	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU PIF to install new ductbank system to mitigate du Primary Feeder - Cable/Conductor	6/1/2025	0.37	0.33	0.30	0.46	
GNA_2025_78	DUPR_2025_DV11	DDOR_2024 DVAR Plan_18	Ely 66/12 (D)	Jamaica	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	0.57	0.56	0.55	0.82
GNA_2025_490	DUPR_2025_D86	DDOR_2022_543018	Irvine 66/12 (D)	Jeffrey	Capacity (UCT)	Underground Cable Temperature Mitigation	Irvine 66/12kV - Circuit #14 - New DSP Circuit to mitigate PI Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.04	0.50	0.00	
GNA_2025_490	DUPR_2025_D103	DDOR_2022_8511	Irvine 66/12 (D)	Jeffrey	Capacity (UCT)	Underground Cable Temperature Mitigation	Irvine 66/12 (D) - Install one (1) - 12kV DSP Circuit for a tot: Primary Feeder - Cable/Conductor	5/1/2025	0.00	0.04	0.50	0.00	
GNA_2025_490	DUPR_2025_D420	DDOR_2024_DSP7321	Irvine 66/12 (D)	Jeffrey	Capacity (UCT)	Underground Cable Temperature Mitigation	Estrella 66/12 kV (D) - Install (1) New 12 kV Circuit (Circuit - Substation - Upgrade Components; Primary Fe 6/1/2028	6/1/2028	0.00	0.00	0.43	0.48	
GNA_2025_83	DUPR_2025_D883	DUPR_2025_DSP37290	Trask 66/12 (D)	Jerome	Capacity (UCT)	Increase Circuit/Sub Capacity	Trask 66/12 (D) - Add 1 -12.0 kV circuit(s) for a total of 13. Primary Feeder - Cable/Conductor	9/30/2027	0.07	0.72	0.67	0.63	
GNA_2025_549	DUPR_2025_D92	DDOR_2022_8469	Valley 115/12 (D)	Jerry	Capacity (UCT)	Increase Circuit/Sub Capacity	Valley 115/12 (D) -New DSP circuit #11 Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	5.02	7.52	
GNA_2025_549	DUPR_2025_D325	DDOR_2024_677574	Valley 115/12 (D)	Jerry	Capacity (UCT)	Increase Circuit/Sub Capacity	Valley 115/12kV - New DSP Circuit #11 - New Circuit #11 to Primary Feeder - Cable/Conductor	12/31/2026	0.00	0.00	5.02	7.52	
GNA_2025_88	DUPR_2025_D245	DDOR_2024_547022	Floraday 12/4.16 (D)	Jessup	Capacity	Increase Circuit/Sub Capacity	12/4.16 Floraday - Jessup 4kV DSP Partial Cutover to Tattot Primary Feeder - Cable/Conductor	6/1/2025	2.80	2.80	2.80	2.80	
GNA_2025_394	DUPR_2025_D41	DDOR_2021_187001	Parker Strip 33/12 (D)	Jet Ski	Capacity	Increase Circuit/Sub Capacity	Parker Strip 33/12 - Jet Ski 12kV - Recable and reconductor Primary Feeder - Cable/Conductor	6/1/2021	0.96	0.96	0.96	0.93	
GNA_2025_110	DUPR_2025_D521	DUPR_2025_647054	Stewart 66/12 (D)	Jimmy	Capacity	Increase Circuit/Sub Capacity	66/12 Stewart - Jimmy 12kV to the Patrick 12 kV% Stewart t Primary Feeder - Cable/Conductor	6/1/2025	3.50	0.00	0.00	0.00	
GNA_2025_150	DUPR_2025_D471	DUPR_2025_631083	El Casco 115/12 (D)	Jonagold	Capacity (UCT)	Increase Circuit/Sub Capacity	Stewart 66/12: Distribution Circuit Upgrade - Project to off: Primary Feeder - Cable/Conductor	6/1/2026	2.87	2.80	2.76	2.74	
GNA_2025_84	DUPR_2025_D884	DUPR_2025_DSP37290	Trask 66/12 (D)	Joplin	Capacity (UCT)	Underground Cable Temperature Mitigation	Priority 0 - Must Have El Casco 115/12 - Line Extension of t Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	6.26	6.30	
GNA_2025_525	DUPR_2025_D532	DUPR_2025_651659	Porterville 66/12 (D)	Josten	Capacity (UCT)	Underground Cable Temperature Mitigation	Trask 66/12 (D) - Add 1 -12.0 kV circuit(s) for a total of 13. Primary Feeder - Cable/Conductor	9/30/2027	0.00	0.00	0.00	0.00	
GNA_2025_524	DUPR_2025_D535	DUPR_2025_651670	Porterville 66/12 (D)	Josten	Capacity	Increase Circuit/Sub Capacity	DSP DCU PIF to recable all circuit getaways from 1000 JCN Primary Feeder - Cable/Conductor	11/1/2026	0.76	0.80	0.00	0.00	
GNA_2025_525	DUPR_2025_D640	DUPR_2025_751246	Porterville 66/12 (D)	Josten	Capacity (UCT)	Increase Circuit/Sub Capacity	Need this PIF in order to restore automated-tie on the Joste Primary Feeder - Cable/Conductor	10/1/2026	1.50	1.50	0.00	0.00	
GNA_2025_525	DUPR_2025_D816	DUPR_2025_8854	Porterville 66/12 (D)	Josten	Capacity (UCT)	Increase Circuit/Sub Capacity	Porterville 66/12 (D) - Goodhue 12 kV - New DSP Circuit Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	2.07	1.89	
GNA_2025_423	DUPR_2025_DV13	DDOR_2024 DVAR Plan_2	Arcadia 66/4.16 (D)	Joyce	Reactive Power	Project to Address Reactive Power Concern, New Ca	(2) New Capacitors On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	0.00	0.00	0.07	0.01
GNA_2025_424	DUPR_2025_DV14	DDOR_2024 DVAR Plan_2	Arcadia 66/4.16 (D)	Joyce	Voltage	Project to Address Voltage Concern, New Capacitor	(2) New Capacitors On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	0.93	0.93	0.93	0.93
DUPR_2025_D397	DDOR_2024_DSP36558	Haskell 66/16 (D)	Julius	Capacity (UCT)	Increase Circuit/Sub Capacity	Solemint 66/16 kV- DSP - Install one (1) 66/16 kV 28 MVA t Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.00	0.00		
GNA_2025_208	DUPR_2025_D465	DUPR_2025_630051	Randal 66/12 (D)	Junior	Capacity	Increase Circuit/Sub Capacity	Reconductor ~0.3 Miles of 2 & 4 ACSR on Juniper Ave betn Primary Feeder - Cable/Conductor	6/1/2026	0.00	1.48	1.54	1.63	
GNA_2025_209	DUPR_2025_D599	DUPR_2025_730103	Randal 66/12 (D)	Junior	Capacity (UCT)	Underground Cable Temperature Mitigation	DCU to resolve duct bank heating. Create a Blister on SE en Primary Feeder - Cable/Conductor	6/1/2027	1.07	2.74	2.83	0.24	
GNA_2025_445	DUPR_2025_DV12	DDOR_2024 DVAR Plan_19	Cardiff 66/12 (D)	Justice	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	1.77	1.73	1.68	1.64
GNA_2025_119	DUPR_2025_D142	DDOR_2023_634069	Francis 66/12 (D)	Kadota	Capacity (UCT)	Increase Circuit/Sub Capacity	12 Francis - New DSP circuit need # Francis 66/12 (D) to ac Primary Feeder - Cable/Conductor	6/1/2026	3.11	3.89	3.96	3.93	
GNA_2025_119	DUPR_2025_D366	DDOR_2024_8653	Francis 66/12 (D)	Kadota	Capacity (UCT)	Increase Circuit/Sub Capacity	Francis 66/12 kV (D) - Install two (2) new DSP 12 kV circuits Substation - Upgrade Components; Primary Fe 6/1/2026	6/1/2026	3.11	3.89	3.96	3.93	
GNA_2025_186	DUPR_2025_D735	DUPR_2025_8799	Decllez 66/12 (D)	Kaiser	Capacity (UCT)	Increase Circuit/Sub Capacity	Etswana 66/12 (D) - Install (2) new 12kV circuits for a total Primary Feeder - Cable/Conductor	6/1/2028	2.37	2.61	2.65	2.72	
GNA_2025_185	DUPR_2025_D744	DUPR_2025_8802	Decllez 66/12 (D)	Kaiser	Capacity	Increase Circuit/Sub Capacity	Etswana 66/12 (D) Substation - Add new 28 MVA transform Substation - Upgrade Components	6/1/2028	0.26	0.37	0.41	0.48	
GNA_2025_512	DUPR_2025_D785	DUPR_2025_8824	San Fernando 66/16 (D)	Kalisher	Capacity (UCT)	Increase Circuit/Sub Capacity	San Fernando 66/16 kV (D) - DSP - Install a new 16 kV Dry A Substation - Upgrade Components; Primary Fe 6/1/2028	6/1/2028	0.00	0.00	2.79	4.53	
DUPR_2025_D2	DDOR_2019_022613	Alhambra 66/16 (D)	Kay	Capacity (UCT)	Underground Cable Temperature Mitigation	Alhambra Sub - Address duct bank temperature violations t Primary Feeder - Cable/Conductor	6/1/2021	0.00	0.00	0.00	0.00		
GNA_2025_491	DUPR_2025_D87	DDOR_2022_543018	Irvine 66/12 (D)	Keeline	Capacity (UCT)	Increase Circuit/Sub Capacity	Irvine 66/12kV - Circuit #14 - New DSP Circuit to mitigate PI Primary Feeder - Cable/Conductor	6/1/2025	2.35	3.41	3.63	3.65	
GNA_2025_491	DUPR_2025_D102	DDOR_2022_8511	Irvine 66/12 (D)	Keeline	Capacity (UCT)	Increase Circuit/Sub Capacity	Irvine 66/12 (D) - Install one (1) - 12kV DSP Circuit for a tot: Primary Feeder - Cable/Conductor	5/1/2025	2.35	3.41	3.63	3.65	
GNA_2025_291	DUPR_2025_D134	DDOR_2023_546057	Sunnyside 66/4.16 (D)	Keever	Capacity	Increase Circuit/Sub Capacity	Sunnyside 66/4.16 - Keever 4kV: Partial Cutover of 51 trans Primary Feeder - Cable/Conductor	6/1/2025	0.60	0.60	0.00	0.00	
GNA_2025_479	DUPR_2025_D61	DDOR_2022_333226	Crown 66/12 (D)	Kewamee	Capacity (UCT)	Underground Cable Temperature Mitigation	Crown 66/12kV - Gunther 12kV - Re-route Gunther 12kV th Primary Feeder - Cable/Conductor	6/1/2027	1.43	1.46	2.00	2.09	
DUPR_2025_DV69	DUPR_2025 DVAR Plan_7	Highland 66/12 (D)	Kilts	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	0.00	0.00	0.00	0.00	
GNA_2025_123	DUPR_2025_D218	DDOR_2024_534555	Kimball 66/12 (D)	Kingcobra	Capacity (UCT)	Underground Cable Temperature Mitigation	Kimball 66/12 (D) - Fortress circuit - To mitigate duct bank t Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.50	0.30	
GNA_2025_70	DUPR_2025_D490	DUPR_2025_636037	Gorman 66/12 (D)	Kinsey	Capacity	Increase Circuit/Sub Capacity	Gorman 66/12 kV - Kinsey 12 kV : Line extension to serve to Primary Feeder - Cable/Conductor	6/1/2026	0.00	7.37	9.63	10.85	
GNA_2025_70	DUPR_2025_D698	DUPR_2025_8756	Gorman 66/12 (D)	Kinsey	Capacity	Increase Circuit/Sub Capacity	Gorman 66/12 kV (D) Full Rebuild using the compact subst Primary Feeder - Cable/Conductor	6/1/2029	0.00	2.15	4.41	5.63	
GNA_2025_403	DUPR_2025_D253	DDOR_2024_551184	Riverway 66/12 (D)	Klamath	Capacity (UCT)	Increase Circuit/Sub Capacity	Chatham 66/12 (D) - Virgil 12 kV - Reconductor to Facilitate Primary Feeder - Cable/Conductor	6/1/2025	3.74	4.65	4.72	4.87	
GNA_2025_585	DUPR_2025_D111	DDOR_2023_473038	Rancho 33/12 (D)	Knolls	Capacity (UCT)	Underground Cable Temperature Mitigation	Rancho 33kV/12kV - Lakota 12kV and Knolls 12kV - Rerout: Primary Feeder - Cable/Conductor	9/1/2025	5.98	5.87	5.78	5.72	
GNA_2025_598	DUPR_2025_D261	DDOR_2024_573024	Victor 115/12 (D)	Koala	Capacity (UCT)	Increase Circuit/Sub Capacity	Incoming Developments throughout the Victorville area. G Primary Feeder - Cable/Conductor	7/1/2026	0.15	1.37	1.15	1.04	
GNA_2025_598	DUPR_2025_D345	DDOR_2024_8565	Victor 115/12 (D)	Koala	Capacity (UCT)	Increase Circuit/Sub Capacity	Victor 115/12 (D) - Install (1) New 12 kV circuit for a total of Substation - Upgrade Components; Primary Fe 6/1/2025	6/1/2025	0.15	1.37	1.15	1.04	
GNA_2025_618	DUPR_2025_D771	DUPR_2025_8818	Modena 66/12 (D)	Korea	Capacity (UCT)	Underground Cable Temperature Mitigation	Modena 66/12 (D) - Adding one (1) new 12 kV line, extend 1 Substation - Upgrade Components; Primary Fe 6/1/2027	12/6	0.11	0.43	0.54	0.54	
GNA_2025_685	DUPR_2025_D187	DDOR_2024_530064	Glen Avon 66/12 (D)	Kraft	Capacity (UCT)	Underground Cable Temperature Mitigation	Glen Avon 66/12 (D): Gowan 12 kV - Mitigation duct bank v Primary Feeder - Cable/Conductor	6/1/2025	0.11	0.37	0.39	0.17	
GNA_2025_513	DUPR_2025_DV44	DUPR_2025 DVAR Plan_15	Santa Susana 66/16 (D)	Kuehner	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	1.57	1.61	1.65	1.70
GNA_2025_635	DUPR_2025_D70	DDOR_2022_440032	Kuffel P.T. 12/2.4 (A)	Kuffel	Capacity	Increase Circuit/Sub Capacity	Kuffel P.T. 12/2.4kV - Kuffel 2.4kV - Partial cutover to Cedar Primary Feeder - Cable/Conductor	6/1/2025	0.06	0.07	0.08	0.09	
GNA_2025_636	DUPR_2025_D71	DDOR_2022_440032	Kuffel P.T. 12/2.4 (A)	Kuffel	Voltage	Voltage Violation Mitigation	Kuffel P.T. 12/2.4kV - Kuffel 2.4kV - Partial cutover to Cedar Primary Feeder - Cable/Conductor	6/1/2025	0.84	0.84	0.84	0.84	
GNA_2025_636	DUPR_2025_D228	DDOR_2024_543021	Santiago 66/12 (D)	Kuna	Capacity (UCT)	Underground Cable Temperature Mitigation	Reconductor Franc, Kuna, Schilling, Centawo cable to 1000 Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.00	
DUPR_2025_D301	DDOR_2024_643445	Santiago 66/12 (D)	Kuna	Capacity (UCT)	Underground Cable Temperature Mitigation	Upgrade substation getaways to increase getaway capacity Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.00	0.00		
GNA_2025_606	DUPR_2025_D324	DDOR_2024_673071	Victorville 33/12 (D)	La Paz	Capacity	Increase Circuit/Sub Capacity	DSP New Circuit - Victor 115/33 (D) - 1 - New 33kV Circuit # Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.00	0.00	
GNA_2025_606	DUPR_2025_D782	DUPR_2025_8822	Victorville 33/12 (D)	La Paz	Capacity	Increase Circuit/Sub Capacity	Victor 115/33 (D) - Install 1 - New 33 kV Circuit for a total of Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.00	0.00	
GNA_2025_354	DUPR_2025_D406	DDOR_2024_DSP36696	Pedley 66/12 (D)	Lab	Capacity	Increase Circuit/Sub Capacity	Bair 66/12 (D) - Add 2 -12.0 kV circuit(s) for a total of 12 an Substation - Upgrade Components; Primary Fe 6/1/2028	4/72	5.48	5.46	4.30		
GNA_2025_430	DUPR_2025_D402	DDOR_2024_DSP36674	Dalton 66/12 (D)	Lager	Capacity (UCT)	Increase Circuit/Sub Capacity	Dalton 66/12 (D) - Install (1) New 12kV DSP Circuit #12 Substation - Upgrade Components; Primary Fe 5/31/2027	0.00	0.00	3.37	3.35		
GNA_2025_430	DUPR_2025_D583	DUPR_2025_727142	Dalton 66/1										

U)	Deficiency %					Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
	2029 ^a	Units	2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b					
2.02	MW						404	172	6	1	19	New
3.15							158	344	2	1	3	Existing
2.68	MW						1356	427	6	0	12	Existing
2.68	MW						1356	427	6	0	12	New
2.20	MW						1071	50	0	8	4	New
7.00	MW	67.50%	67.50%	67.70%	67.70%	67.24%	1120	58	0	1	13	Existing
30.09	MW						71	46	1	1	10	Existing
30.09	MW						71	46	1	1	10	Existing
0.65	MW						27	52	3	3	1	New
0.40	MW	12.29%	12.29%	12.29%	12.63%	13.65%	908	49	1	1	7	New
0.00	MW	17.24%	17.24%	17.24%	20.69%	0.00%	1615	90	0	0	9	Existing
1.11	MW						1532	104	0	1	2	New
1.78	MW						1523	71	0	3	10	New
0.00	MW						100	41	0	0	3	New
0.39	MW	15.52%	0.00%	1.25%	3.83%	3.83%	0	0	0	0	0	Existing
0.50	MW	4.09%	3.64%	3.30%	4.61%	5.56%	1448	356	0	0	18	Existing
0.82		95.82%	93.02%	91.11%	137.45%	137.45%	1448	356	0	0	18	Existing
0.00	MW						1598	117	0	0	18	Existing
0.00	MW						1598	117	0	0	18	Existing
0.57	MW						1598	117	0	0	18	Existing
0.59	MW						1405	862	2	1	15	New
7.52	MW	0.00%	0.00%	41.97%	62.88%	62.88%	1478	43	0	0	9	Existing
7.52	MW	0.00%	0.00%	41.97%	62.88%	62.88%	1478	43	0	0	9	Existing
2.80	MW	96.55%	96.55%	96.55%	96.55%	96.55%	668	4	0	0	5	Existing
0.93	MW						300	80	0	3	2	Existing
0.00	MW						1773	200	0	0	15	Existing
2.72	MW						1773	200	0	0	15	New
6.39	MW	0.00%	0.00%	52.34%	52.68%	53.43%	2722	70	0	0	8	New
0.02	MW	0.00%	0.00%	0.00%	0.00%	0.18%	2632	320	0	1	14	New
0.00	MW						867	43	0	0	5	New
0.00	MW						867	43	0	0	5	New
1.91	MW						867	43	0	0	5	New
1.91	MW						867	43	0	0	5	New
0.02		0.00%	0.00%	0.00%	3.20%	7.74%	826	52	0	0	2	Existing
0.93		93.33%	93.42%	93.33%	93.33%	93.25%	826	52	0	0	2	Existing
0.00	MW						2786	545	4	1	9	Existing
1.74	MW	0.00%	12.37%	12.88%	13.63%	14.55%	2458	228	0	1	10	New
0.52	MW	10.03%	25.61%	26.52%	2.31%	5.09%	2458	228	0	1	10	New
1.83							332	188	0	0	36	Existing
3.02	MW						2453	485	2	2	18	Existing
3.02	MW						2453	485	2	2	18	Existing
2.41	MW						1068	119	0	0	4	New
0.54	MW						1068	119	0	0	4	New
4.65	MW						2347	385	0	0	37	New
0.00	MW						1821	500	4	0	41	Existing
3.63	MW						798	89	0	1	28	Existing
3.63	MW						798	89	0	1	28	Existing
0.10	MW	20.69%	20.69%	0.00%	0.00%	3.45%	1409	57	0	0	13	Existing
2.22	MW						1988	198	4	0	43	Existing
0.00		0.00%	0.00%	0.00%	0.00%	0.00%	1941	51	0	3	11	Existing
0.59	MW	0.00%	0.00%	5.13%	3.09%	6.06%	1726	212	0	0	22	Existing
10.85	MW						36	56	3	1	9	New
5.63	MW						36	56	3	1	9	New
4.93	MW						468	56	0	74	2	Existing
5.67	MW						1877	189	0	1	6	Existing
0.98	MW	1.25%	11.45%	9.62%	8.70%	8.19%	2474	38	0	1	6	Existing
0.98	MW	1.25%	11.45%	9.62%	8.70%	8.19%	2474	38	0	1	6	Existing
0.67	MW	11.83%	1.08%	4.32%	5.42%	6.73%	1578	40	0	2	9	New
0.26	MW						1575	124	0	0	16	Existing
1.74							2491	219	4	0	16	Existing
0.10	MW	6.38%	7.45%	8.51%	9.57%	10.64%	537	7	1	0	1	Existing
0.83	Vpu	84.00%	83.92%	83.75%	83.58%	83.33%	537	7	1	0	1	Existing
0.00	MW						1967	242	0	0	34	Existing
0.00	MW						1967	242	0	0	34	Existing
0.30	MW						1066	205	0	0	15	Existing
0.30	MW						1066	205	0	0	15	New
0.28	MW						985	93	0	0	21	Existing
3.30	MW						0	99	7	0	5	Existing
3.30	MW						0	99	7	0	5	New
1.57	MW						1135	277	0	0	15	Existing
0.67	MW	3.97%	4.45%	5.03%	5.91%	6.49%	1998	69	0	0	23	Existing
0.41	MW						2059	250	0	0	12	Existing
0.11	MW						2059	250	0	0	12	Existing
0.80	MW						550	288	13	1	13	Existing
1.30	MW						1260	52	0	1	20	New
0.00							236	307	1	0	31	Existing
1.63	MW	16.89%	15.97%	15.05%	14.38%	13.63%	2322	236	0	2	34	New
0.59		96.89%	97.78%	97.41%	97.63%	98.67%	1891	38	0	0	4	Existing
0.35	MW						1702	102	0	3	30	New
0.52	MW						1982	53	0	6	14	New

											Deficiency (MW, MVAR or V%)			
GNA ID	DUPR ID	DUPR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment to Be Installed	Operating Date	2025 ^A	2026 ^A	2027 ^A	2028 ^A	
GNA_2025_648	DUPR_2025_D189	DDOR_2024_530069	Rialto 33/4.16 (D)	Love	Capacity	Increase Circuit/Sub Capacity	Re-Conducting: Currently the existing projects predict th	Primary Feeder - Cable/Conductor	12/31/2025	0.75	0.76	0.77	0.78	
GNA_2025_644	DUPR_2025_D110	DDOR_2023_427089	Sierra Madre 16/4.16 (D)	Lowell	Voltage	Sierra Voltage Mitigation	Lowell 4 kV Cutover 270 A (CPL) to the Baldwin 16 kV % Arc	Primary Feeder - Cable/Conductor	6/1/2026	0.86	0.86	0.86	0.86	
GNA_2025_632	DUPR_2025_D496	DUPR_2025_636051	Oasis 66/12 (D)	Lupine	Capacity (UCT)	Underground Cable Temperature Mitigation	Oasis 66/12 kV - Farms 12 kV and Lupine 12 kV - DCU recal	Primary Feeder - Cable/Conductor	12/31/2026	0.00	0.00	0.02	0.00	
GNA_2025_627	DUPR_2025_DV67	DUPR_2025_DVAR Plan_5	Luring P.T. 12/2.4 (A)	Luring	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	0.11	0.11	0.12	0.12	
GNA_2025_95	DUPR_2025_D21	DDOR_2019_977271	Newcomb 115/12 (D)	Lusk	Capacity (UCT)	Underground Cable Temperature Mitigation	Newcomb 115/12 - Oakdale 12kV - TPS PIF: OCP, WCR, an	Primary Feeder - Cable/Conductor	1/1/2026	0.00	0.00	0.00	0.00	
GNA_2025_163	DUPR_2025_D282	DDOR_2024_633048	Imperial 66/12 (D)	Luxor	Capacity (UCT)	Underground Cable Temperature Mitigation	Imperial Substation 66/12kV, 66/4kV Rerouting circuits to	Primary Feeder - Cable/Conductor	6/1/2025	3.50	4.10	3.90	3.80	
GNA_2025_614	DUPR_2025_DV17	DDOR_2024_DVAR Plan_22	La Veta 66/12 (D)	Lyell	Capacity (UCT)	Underground Cable Temperature Mitigation	DCU to resolve Duct Bank Temperature Violations, as well	Primary Feeder - Cable/Conductor	6/1/2026	0.52	0.33	0.15	0.17	
GNA_2025_492	DUPR_2025_D88	DDOR_2022_543018	Ellis 66/12 (D)	Mable	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	0.42	0.41	0.41	0.41	
GNA_2025_163	DUPR_2025_DV17	DDOR_2024_DVAR Plan_22	La Veta 66/12 (D)	Magazine	Capacity (UCT)	Underground Cable Temperature Mitigation	Irvine 66/12kV - Circuit #14 - New DSP Circuit to mitigate PI	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.04	
GNA_2025_492	DUPR_2025_D88	DDOR_2022_543018	Ellis 66/12 (D)	Magazine	Capacity (UCT)	Underground Cable Temperature Mitigation	Irvine 66/12 (D) - Install one (1) - 12 kV DSP Circuit for a tot	Primary Feeder - Cable/Conductor	5/1/2025	0.00	0.00	0.00	0.04	
GNA_2025_492	DUPR_2025_D310	DDOR_2024_643446	Irvine 66/12 (D)	Magazine	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP PIF to alleviate DB heating without civil. Part of OC DCI	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.15	0.33	
GNA_2025_324	DUPR_2025_D485	DUPR_2025_634081	Chase 66/12 (D)	Magnolia	Capacity (UCT)	Underground Cable Temperature Mitigation	Chase 66/12 (D) - Mitigate Chase Duct Bank Heating Issues	Primary Feeder - Cable/Conductor	6/1/2026	0.35	0.33	0.30	0.30	
GNA_2025_599	DUPR_2025_D262	DDOR_2024_573024	Victor 115/12 (D)	Magua	Capacity (UCT)	Increase Circuit/Sub Capacity	Incoming Developments throughout the Victorville area. C	Primary Feeder - Cable/Conductor	7/1/2026	1.20	2.52	2.37	2.26	
GNA_2025_599	DUPR_2025_D346	DDOR_2024_8565	Victor 115/12 (D)	Magua	Capacity (UCT)	Increase Circuit/Sub Capacity	Victor 115/12 (D) - Install (1) New 12 kV circuit for a total of Substation - Upgrade Components; Primary Fe	Primary Feeder - Cable/Conductor	6/1/2025	1.20	2.52	2.37	2.26	
GNA_2025_498	DUPR_2025_639030	DUPR_2025_8711	Saticoy 66/16 (D)	Maloy	Capacity (UCT)	Underground Cable Temperature Mitigation	Create new circuit gateway paths for Highway, Vineyard 16	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.00	0.00	
GNA_2025_498	DUPR_2025_639030	DUPR_2025_8711	Saticoy 66/16 (D)	Maloy	Capacity (UCT)	Underground Cable Temperature Mitigation	Saticoy 66/16 (D): Install new getaways to reroute the Malo	Substation - Upgrade Components	6/1/2026	0.00	0.00	0.00	0.00	
GNA_2025_511	DUPR_2025_D336	DDOR_2024_759007	North Oaks 66/16 (D)	Mamba	Capacity	Increase Circuit/Sub Capacity	North Oaks 66/16 - Anaconda 16 kV - Re-conductor and inst	Primary Feeder - Cable/Conductor	6/1/2026	0.09	0.09	0.00	0.00	
GNA_2025_210	DUPR_2025_D592	DUPR_2025_730094	Randall 66/12 (D)	Manteca	Capacity (UCT)	Underground Cable Temperature Mitigation	Falcon Ridge 66/12 Substation - Camaro 12kV to offload IV	Primary Feeder - Cable/Conductor	6/1/2027	0.39	0.33	0.37	0.02	
GNA_2025_210	DUPR_2025_D733	DUPR_2025_8798	Randall 66/12 (D)	Manteca	Capacity (UCT)	Underground Cable Temperature Mitigation	Falcon Ridge 66/12 (D) - Install (2) new 12kV circuits for a t	Primary Feeder - Cable/Conductor	6/1/2027	0.39	0.33	0.37	0.02	
GNA_2025_135	DUPR_2025_D476	DUPR_2025_632071	Somersett 66/12 (D)	Maplewood	Capacity	Increase Circuit/Sub Capacity	Somersett 66/12 (D): Maplewood 12kV DSP DCU Recondur	Primary Feeder - Cable/Conductor	6/1/2026	0.91	0.89	2.04	2.04	
GNA_2025_187	DUPR_2025_D709	DUPR_2025_8780	Decleaz 66/12 (D)	Marble	Capacity (UCT)	Increase Circuit/Sub Capacity	Etowanda 66/33 (D): Adding 33 kV to Etowanda Substation	Primary Feeder - Cable/Conductor	6/1/2029	12.28	17.04	23.89	25.70	
GNA_2025_120	DUPR_2025_D367	DDOR_2024_8653	Francis 66/12 (D)	Marbuck	Capacity	Increase Circuit/Sub Capacity	13 Francis - New DSP circuit need % Francis 66/12 (D) to ac	Primary Feeder - Cable/Conductor	6/1/2026	0.85	0.91	3.37	4.40	
GNA_2025_398	DUPR_2025_DSP36558	DDOR_2024_DSP36558	Francis 66/12 (D)	Marbuck	Capacity	Increase Circuit/Sub Capacity	Francis 66/12 kV (D) - Install two (2) new DSP 12 kV circuits	Substation - Upgrade Components; Primary Fe	6/1/2026	0.85	0.91	3.37	3.46	
GNA_2025_587	DUPR_2025_D113	DDOR_2023_473038	Haskell 66/16 (D)	Marcus	Capacity (UCT)	Underground Cable Temperature Mitigation	Solemnist 66/16 kV - DSP - Install one (1) 66/16 kV 28 MVA t	Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.00	0.00	
GNA_2025_75	DUPR_2025_D435	DDOR_2025_548036	Rancho 33/12 (D)	Marianna	Capacity (UCT)	Underground Cable Temperature Mitigation	Rancho 33kV/12kV - Lakota 12kV and Knolls 12kV - Rerout	Primary Feeder - Cable/Conductor	9/1/2025	0.09	0.00	0.63	0.28	
GNA_2025_285	DUPR_2025_D134	DDOR_2023_546058	Barre 66/12 (D)	Marigold	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU to recable substnatio getaways to mitigate ductb	Primary Feeder - Cable/Conductor	6/1/2025	0.70	0.74	0.78	0.85	
GNA_2025_245	DUPR_2025_D299	DDOR_2024_642036	Oldfield 12/4.16 (D)	Market	Capacity	Increase Circuit/Sub Capacity	Oldfield 12/4.16 - Market 4kV: Partial Cutover of 27 transfo	Primary Feeder - Cable/Conductor	6/1/2025	0.90	0.90	0.90	0.80	
GNA_2025_136	DUPR_2025_D40	DDOR_2021_132975	Marine 66/16 kV Sub	Marshall	Capacity	Increase Circuit/Sub Capacity	Marine 66/16 kV Sub - Marshall 16kV Line Extension, Recor	Primary Feeder - Cable/Conductor	6/1/2026	1.97	3.47	6.60	6.60	
GNA_2025_644	DUPR_2025_D52	DDOR_2021_330516	Somersett 66/12 (D)	Marty	Capacity	Increase Circuit/Sub Capacity	Somersett 66/12: Marty 12 kV - DSP Project - Install New PS	Primary Feeder - Cable/Conductor	12/31/2021	0.30	0.20	0.20	0.20	
GNA_2025_350	DUPR_2025_D291	DDOR_2024_634074	Pepper 115/12 (D)	Matheus	Capacity (UCT)	Underground Cable Temperature Mitigation	Pepper 115/12kV - Pinot 12kV	Primary Feeder - Cable/Conductor	6/1/2027	1.41	1.41	1.46	1.50	
GNA_2025_350	DUPR_2025_D814	DUPR_2025_8853	Mira Loma 66/12 (D)	Matterhorn	Capacity (UCT)	Increase Circuit/Sub Capacity	Mira Loma 66/12 (D) - New Circuit #11 - Akagi 12kV	Primary Feeder - Cable/Conductor	12/31/2026	3.65	5.54	7.02	6.07	
GNA_2025_350	DUPR_2025_D814	DUPR_2025_8853	Mira Loma 66/12 (D)	Matterhorn	Capacity (UCT)	Increase Circuit/Sub Capacity	Mira Loma 66/12 (D) - Add 1 - 12.0 kV circuit(s) for a total of Primary Feeder - Cable/Conductor	Primary Feeder - Cable/Conductor	6/1/2027	3.65	5.54	7.02	6.07	
GNA_2025_472	DUPR_2025_DV18	DDOR_2024_DVAR Plan_23	Rivera 12/4.16 (D)	Maxine	Capacity	Increase Circuit/Sub Capacity	Rivera 12/4.16 - Maxine 4kV DSP Cutover to Stamper 12kV %	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.00	
GNA_2025_217	DUPR_2025_D598	DUPR_2025_730100	Saticoy 66/16 (D)	Maxson	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	0.77	0.00	0.00	0.00	
GNA_2025_217	DUPR_2025_D598	DUPR_2025_730100	Wimbleton 66/12 (D)	McEnroe	Capacity (UCT)	Increase Circuit/Sub Capacity	15th 12kV Circuit % Wimbleton to offload McEnroe 12kV a	Primary Feeder - Cable/Conductor	6/1/2027	3.46	3.26	3.07	2.85	
GNA_2025_217	DUPR_2025_D825	DUPR_2025_8886	Wimbleton 66/12 (D)	McEnroe	Capacity (UCT)	Increase Circuit/Sub Capacity	Wimbleton 66/12 (D) - Install two (2) new 12 kV circuits for	Primary Feeder - Cable/Conductor	6/1/2027	3.46	3.26	3.07	2.85	
GNA_2025_165	DUPR_2025_D430	DUPR_2025_533053	Brookhurst 66/12 (D)	McKeever	Capacity (UCT)	Increase Circuit/Sub Capacity	Summer Readiness Need to extend 4th wire neutral cond	Primary Feeder - Cable/Conductor	6/1/2025	2.20	2.22	2.28	2.35	
GNA_2025_566	DUPR_2025_D654	DUPR_2025_777208	Newcomb 115/12 (D)	McLaughlin	Capacity (UCT)	Underground Cable Temperature Mitigation	Sun City 115/12 (D) - New Circuit - Halo 12kV - Offload Farr	Primary Feeder - Cable/Conductor	12/31/2027	0.22	0.28	0.37	0.00	
GNA_2025_385	DUPR_2025_D158	DDOR_2023_8535	Cucamonga 66/12 (D)	Mears	Capacity (UCT)	Increase Circuit/Sub Capacity	Genamic 66/12 - Install one (1) new 12kV circuit	Primary Feeder - Cable/Conductor	6/1/2027	0.26	2.48	4.74	5.52	
GNA_2025_384	DUPR_2025_D481	DUPR_2025_634080	Cucamonga 66/12 (D)	Mears	Capacity	Increase Circuit/Sub Capacity	DCU Project line extension with transfer. Purpose is to tran	Primary Feeder - Cable/Conductor	6/1/2026	0.26	1.50	3.76	4.54	
GNA_2025_385	DUPR_2025_D594	DUPR_2025_730099	Cucamonga 66/12 (D)	Mears	Capacity (UCT)	Increase Circuit/Sub Capacity	Genamic 66/12 - New circuit (Redeye 12kV) to offload EV c	Primary Feeder - Cable/Conductor	6/1/2027	0.26	2.48	4.74	5.52	
GNA_2025_176	DUPR_2025_D268	DDOR_2024_629041	Vera 66/12 (D)	Mercedes	Capacity (UCT)	Underground Cable Temperature Mitigation	Double Run Austin 12kV and Rambler 12 kV, and Recable t	Primary Feeder - Cable/Conductor	6/1/2026	1.20	1.22	1.26	0.00	
GNA_2025_341	DUPR_2025_D717	DUPR_2025_8780	Milliken 66/12 (D)	Mescal	Capacity (UCT)	Increase Circuit/Sub Capacity	Etowanda 66/33 (D): Adding 33 kV to Etowanda Substation	Primary Feeder - Cable/Conductor	6/1/2029	0.76	14.20	14.17	11.28	
GNA_2025_583	DUPR_2025_D548	DUPR_2025_673070	Hesperia 115/12 (D)	Mesquite	Capacity	Increase Circuit/Sub Capacity	Hesperia 115/12 - Circuit #9 - Create new circuit	Primary Feeder - Cable/Conductor	12/31/2026	0.00	3.35	14.46	27.96	
GNA_2025_583	DUPR_2025_D683	DUPR_2025_8647	Hesperia 115/12 (D)	Mesquite	Capacity	Increase Circuit/Sub Capacity	Hesperia 115/12 (D) - Install New 12 kV Circuit #9 and new	Primary Feeder - Cable/Conductor	6/1/2029	0.00	3.35	14.46	27.96	
GNA_2025_584	DUPR_2025_D859	DUPR_2025_DSP34606	Hesperia 115/12 (D)	Mesquite	Capacity (UCT)	Increase Circuit/Sub Capacity	Hesperia 115/12 (D): Install new 12kV Circuit #10 out of He	Primary Feeder - Cable/Conductor	6/1/2029	0.00	3.76	14.87	28.39	
GNA_2025_287	DUPR_2025_D128	DDOR_2023_546052	Signal Hill 12/4.16 (D)	Michigan	Capacity	Increase Circuit/Sub Capacity	Signal Hill 12/4.16 - Michigan 4kV: Partial Cutover of 17 tra	Primary Feeder - Cable/Conductor	6/1/2025	0.30	0.30	0.30	0.30	
GNA_2025_398	DUPR_2025_D436	DUPR_2025_551190	Liberty 66/12 (D)	Mid Valle	Capacity	Increase Circuit/Sub Capacity	Liberty 66/12 (D) - Mid Valle 12 kV - Install RAR to raise PL	Primary Feeder - Cable/Conductor	12/31/2025	0.00	0.17	0.15	0.15	
GNA_2025_299	DUPR_2025_D563	DUPR_2025_722018	Ramona 66/4.16 (D)	Midwick	Capacity	Increase Circuit/Sub Capacity	Ramona 16/4.16 kV - Midwick 4 kV - Partial 4 kV Cutover	Primary Feeder - Cable/Conductor	6/1/2027	3.10	3.10	3.20	3.20	
GNA_2025_408	DUPR_2025_D439	DUPR_2025_551248	Tulare 66/12 (D)	Milk	Capacity (UCT)	Underground Cable Temperature Mitigation	Tulare 66/12 (D) - Milk 12 kV - Summer Readiness - Install V	Primary Feeder - Cable/Conductor	6/1/2025	3.54	7.84	6.52	0.00	
GNA_2025_408	DUPR_2025_D541	DUPR_2025_651674	Tulare 66/12 (D)	Milk	Capacity (UCT)	Underground Cable Temperature Mitigation	Tulare 66/12 (D) - Milk 12 kV - Replace 1000 CLP Aluminu	Primary Feeder - Cable/Conductor	12/31/2026	0.48	4.78	3.46	0.00	
GNA_2025_408	DUPR_2025_D635	DUPR_2025_751242	Tulare 66/12 (D)	Milk	Capacity (UCT)	Increase Circuit/Sub Capacity	Octol 66/12 (D) - Cheddar 12kV - DSP - New Circuit	Primary Feeder - Cable/Conductor	12/31/2027	0.00	3.39	10.40	2.79	
GNA_2025_408	DUPR_2025_D637	DUPR_2025_751244	Tulare 66/12 (D)	Milk	Capacity (UCT)	Increase Circuit/Sub Capacity	Bliss 66/12 kV (D) - Tranquility 12 kV - DSP - New Circuit	Primary Feeder - Cable/Conductor	12/31/2027	0.00	3.39	5.83	0.00	
GNA_2025_408	DUPR_2025_D804	DUPR_2025_8847	Tulare 66/12 (D)	Milk	Capacity (UCT)	Increase Circuit/Sub Capacity	Bliss 66/12 kV (D) - Install one (1) new DSP 12 kV circuit (f	Substation - Upgrade Components; Primary Fe	6/1/2027	0.00	3.39	5.83	0.00	
GNA_2025_408	DUPR_2025_D811	DUPR_2025_8851	Tulare 66/12 (D)	Milk	Capacity (UCT)	Increase Circuit/Sub Capacity	Octol 66/12 kV (D) - Install one (1) New DSP 12 kV Circuit (f	Substation - Upgrade Components; Primary Fe	6/1/2027	0.00	3.39	10.40	2.79	
GNA_2025_408	DUPR_2025_D863	DUPR_2025_DSP36582	Tulare 66/12 (D)	Milk	Capacity (UCT)	Increase Circuit/Sub Capacity	Tulare 66/12 kV (D) - Install one (1) New DSP 12 kV Circuit (f	Substation - Upgrade Components; Primary Fe	6/1/2028	0.00	3.39	2.04	5.18	
GNA_2025_100	DUPR_2025_D518	DUPR_2025_647053	Passons 66/12 (D)	Millergrove	Capacity (UCT)	Underground Cable Temperature Mitigation	Passons 66/12: Duct Bank Project to Address Heating Con	Primary Feeder - Cable/Conductor	6/1/2026	2.07	2.11	2.20	2.26	
GNA_2025_480	DUPR_2025_D62	DDOR_2022_333226	Crown 66/12 (D)	Minosa	Capacity	Underground Cable Temperature Mitigation	Crown 66/12kV - Gunther 12kV - Re-route Gunther 12kV th	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.61	0.59	
GNA_2025_404	DUPR_2025_D441	DUPR_2025_551250	Riverway 66/12 (D)	Mississippi	Capacity (UCT)	Increase Circuit/Sub Capacity	Chatham 66/12 (D) - Virgil 12kV - DSP - Summer Readiness	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.09	2.70	
GNA_2025_404	DUPR_2025_D633	DUPR_2025_751241	Riverway 66/12 (D)	Mississippi	Capacity (UCT)	Increase Circuit/Sub Capacity	Chatham 66/12 kV (D) - Install one (1) DSP12 kV circuit (for	Primary Feeder - Cable/Conductor	12/31/2026	0.00	0.00	0.00	1.91	
GNA_2025_404	DUPR_2025_D800	DUPR_2025_8849	Riverway 66/12 (D)	Mississippi	Capacity (UCT)	Increase Circuit/Sub Capacity	Chatham 66/12 kV (D) - Install one (1) DSP12 kV circuit (for	Substation - Upgrade Components; Primary Fe	6/1/2027	0.00	0.00	0.00	1.91	
GNA_2025_336	DUPR_2025_D900	DUPR_2025_DSP37423	Jefferson 66/12 (D)	Modelo	Capacity (UCT)	Underground Cable Temperature Mitigation	Perez 66/12 kV (D): Build new 66/12 kV compact substation	Substation - Upgrade Components; Primary Fe	6/1/2029	0.20	0.20	2.04	1.74	
GNA_2025_526	DUPR_2025_D531	DUPR_2025_651658	Porterville 66/12 (D)	Monache	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU PIF to recable all circuit getaways from 1000 JCN	Primary Feeder - Cable/Conductor	11/1/2026	1.78	0.00	0.20	0.24	
GNA_2025_372	DUPR_2025_D293	DDOR_2024_635052	Randall 66/12 (D)	Mora	Capacity	Increase Circuit/Sub Capacity	Reconductor ~0.3 Miles of 2 & 4 ACSR on Juniper Ave betwee	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.00	0.00	
GNA_2025_372	DUPR_2025_D293	DDOR_2024_635052	Moopark 66/16 (D)	Morganstein	Capacity (UCT)	Underground Cable Temperature Mitigation	Moopark 66/16 kV - DCU - Install an RAR A load roll from M	Primary Feeder - Cable/Conductor	6/1/2026	0.47	0.29			

U)	Deficiency %					Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
2029 ^a	Units	2025 ^a	2026 ^a	2027 ^a	2028 ^a							
0.80	MW	39.89%	40.43%	40.96%	41.49%	711	44	0	0	7		Existing
0.86	Vpu	86.42%	86.42%	86.33%	86.33%	529	8	0	0	1		Existing
0.00	MW					214	248	4	5	13		New
0.12		148.40%	150.24%	153.31%	156.37%	340	6	0	1	0		Existing
0.00	MW					1339	242	0	0	16		Existing
3.70	MW					1309	301	11	2	27		Existing
0.00	MW	5.26%	3.34%	1.52%	1.72%	2886	186	1	5	7		Existing
0.42						889	64	0	0	5		Existing
0.15	MW					2022	173	0	0	49		Existing
0.15	MW					2022	173	0	0	49		Existing
0.52	MW					2022	173	0	0	49		Existing
0.28	MW	3.49%	3.29%	2.99%	2.99%	2165	201	0	1	39		New
2.15	MW					2073	72	0	3	6		Existing
2.15	MW					2073	72	0	3	6		Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	919	68	0	9	16		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	919	68	0	9	16		New
0.00	MW					1758	353	1	3	35		Existing
0.09	MW	3.48%	2.95%	3.30%	0.17%	2024	93	0	1	6		New
0.09	MW	3.48%	2.95%	3.30%	0.17%	2024	93	0	1	6		New
2.04	MW					2025	499	8	2	26		New
27.61	MW					105	197	2	0	13		New
4.57	MW	7.11%	7.61%	28.18%	28.93%	1827	537	0	1	22		Existing
4.57	MW	7.11%	7.61%	28.18%	28.93%	1827	537	0	1	22		Existing
0.00	MW					1636	133	0	0	7		Existing
0.09	MW	0.87%	0.00%	6.10%	2.68%	2493	186	0	1	9		Existing
0.93	MW					2405	307	8	1	21		New
0.80	MW	31.03%	31.03%	31.03%	27.59%	1427	88	0	0	7		Existing
6.60	MW					2576	549	5	0	28		Existing
0.20	MW	4.17%	2.78%	2.78%	2.78%	1339	142	0	0	4		Existing
1.54	MW	13.74%	13.72%	14.20%	14.59%	1937	280	0	0	12		Existing
6.89	MW					1273	136	0	0	23		Existing
6.89	MW					1273	136	0	0	23		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	616	19	0	0	3		Existing
0.00						3189	511	6	38	29		Existing
2.63	MW					0	86	0	0	6		New
2.63	MW					0	86	0	0	6		New
2.50	MW					4110	377	1	0	19		New
0.07	MW					2239	66	0	1	11		New
5.50	MW					1117	267	0	0	21		Existing
4.52	MW					1117	267	0	0	21		New
5.50	MW					1117	267	0	0	21		New
0.00	MW	10.37%	10.54%	10.89%	0.00%	2537	201	1	2	18		Existing
11.24	MW					2	113	1	2	25		New
39.00	MW	0.00%	28.01%	120.90%	233.78%	2398	35	0	0	2		New
39.00	MW	0.00%	28.01%	120.90%	233.78%	2398	35	0	0	2		New
28.50	MW	0.00%	32.58%	128.86%	246.44%	2398	35	0	0	2		New
0.30	MW	12.50%	12.50%	12.50%	12.50%	779	25	0	0	6		Existing
0.13	MW					653	67	2	60	10		New
3.20	MW	106.90%	106.90%	110.34%	110.34%	784	80	0	0	14		New
2.17	MW					1668	136	1	24	20		New
0.00	MW					1668	136	1	24	20		New
6.03	MW					1668	136	1	24	20		New
1.46	MW					1668	136	1	24	20		New
1.46	MW					1668	136	1	24	20		New
6.03	MW					1668	136	1	24	20		New
8.41	MW					1668	136	1	24	20		New
2.33	MW	22.09%	22.47%	23.48%	24.12%	1994	124	1	0	32		New
0.57	MW					382	84	0	0	15		Existing
3.24	MW	0.00%	0.00%	0.76%	22.71%	1607	163	0	82	13		New
2.46	MW	0.00%	0.00%	0.00%	17.75%	1607	163	0	82	13		New
2.46	MW	0.00%	0.00%	0.00%	17.75%	1607	163	0	82	13		New
1.74	MW	1.78%	1.78%	18.15%	15.10%	1782	108	0	0	33		New
0.28	MW					1317	105	0	18	8		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	1797	73	0	1	9		New
0.74	MW					1552	176	4	10	22		Existing
0.41	MW					2218	109	0	1	13		Existing
0.00	MW					2218	109	0	1	13		Existing
0.00	MW					2549	206	0	1	30		New
0.00	MW					2549	206	0	1	30		New
0.00	MW					2313	206	0	0	14		Existing
0.64	MW					2313	206	0	0	14		New
0.30	MW	6.90%	6.90%	6.90%	10.34%	1471	62	0	0	7		Existing
0.39	MW					1350	104	0	2	16		Existing
0.16	MW					1350	104	0	2	16		New
0.39	MW					1350	104	0	2	16		New
3.63	MW					649	167	0	2	7		New
3.63	MW					649	167	0	2	7		New
0.59	MW	0.17%	0.61%	0.79%	1.14%	504	22	0	2	3		Existing
0.59	MW	0.17%	0.61%	0.79%	1.14%	504	22	0	2	3		New
0.00	MW					2132	430	0	0	29		New

										Deficiency (MW, MVAR or Vp)			
GNA ID	DUPR ID	DUPR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment to Be Installed	Operating Date	2025 ^A	2026 ^A	2027 ^A	2028 ^A
GNA_2025_577	DUPR_2025_D257	DDOR_2024_573023	Aqueduct 115/12 (D)	Needle	Capacity (UCT)	Underground Cable Temperature Mitigation	Re-cable 4 - 12 kV circuits: Turbine, Sluice, Penstock, Neer	Primary Feeder - Cable/Conductor	6/1/2026	1.09	1.11	1.15	1.20
GNA_2025_279	DUPR_2025_D54	DDOR_2021_332985	Fremont 16/4.16 (D)	Nestor	Capacity	Increase Circuit/Sub Capacity	Fremont 16/4.16: Nestor 4KV: DSP Upgrade Getaway Cable	Primary Feeder - Cable/Conductor	6/1/2026	0.70	0.70	0.00	0.00
GNA_2025_211	DUPR_2025_D417	DDOR_2024_DSP36748	Randall 66/12 (D)	Nicklin	Capacity (UCT)	Increase Circuit/Sub Capacity	Falcon Ridge 66/12 (D) - Three (3) new circuits out of Falcon	Primary Feeder - Cable/Conductor	6/1/2028	0.00	1.24	2.02	1.11
GNA_2025_437	DUPR_2025_D27	DDOR_2020_027588	Rio Hondo 66/12 (D)	Nile	Capacity (UCT)	Underground Cable Temperature Mitigation	Rio Hondo - VS201676 Duct Bank Temperature Violation (1 Primary Feeder - Cable/Conductor	6/1/2025	1.61	1.63	1.67	1.72	
	DUPR_2025_D579	DUPR_2025_727141	Rio Hondo 66/12 (D)	Nile	Capacity	Increase Circuit/Sub Capacity	Rio Hondo 66/12 (D) Install New 12 kV circuit to offload Rio	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.00
	DUPR_2025_D790	DUPR_2025_8829	Rio Hondo 66/12 (D)	Nile	Capacity	Increase Circuit/Sub Capacity	Rio Hondo 66/12 (D) - Install (1) New 12kV DSP Circuit #12	Substation - Upgrade Components; Primary Fe	6/1/2027	0.00	0.00	0.00	0.00
GNA_2025_124	DUPR_2025_D139	DDOR_2023_634064	Kimbali 66/12 (D)	Nish	Capacity (UCT)	Increase Circuit/Sub Capacity	Chino 66/12 kV - Remington 12 kV - New DSP Circuit	Primary Feeder - Cable/Conductor	6/1/2026	1.91	1.91	1.91	1.91
GNA_2025_124	DUPR_2025_D355	DDOR_2024_8583	Kimbali 66/12 (D)	Nish	Capacity (UCT)	Increase Circuit/Sub Capacity	Chino 66/12 kV (D) - Install one (1) New DSP 12 kV Circuit	(Substation - Upgrade Components; Primary Fe	6/1/2026	1.91	1.91	1.91	1.91
GNA_2025_607	DUPR_2025_DV41	DUPR_2025_DVAR Plan_12	Victorville 33/33 (D)	Nisqually	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	1.79	1.74	1.87	1.79
GNA_2025_654	DUPR_2025_D45	DDOR_2021_231789	Shandin 115/12 (D)	Northpark	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP - Duct bank temperature violation - Multiple circuits %	Primary Feeder - Cable/Conductor	6/1/2027	5.48	5.37	4.78	4.83
GNA_2025_654	DUPR_2025_D190	DDOR_2024_531049	Shandin 115/12 (D)	Northpark	Capacity (UCT)	Underground Cable Temperature Mitigation	Shandin 115/12 (D) - Irvington - Extend Irvington to offload	Primary Feeder - Cable/Conductor	6/1/2027	3.63	3.67	0.00	0.00
GNA_2025_654	DUPR_2025_D192	DDOR_2024_531050	Shandin 115/12 (D)	Northpark	Capacity (UCT)	Increase Circuit/Sub Capacity	Extend Varsity 12kV to help offload Northpark 12kV and Ro	Primary Feeder - Cable/Conductor	6/1/2026	4.74	4.80	0.00	0.00
GNA_2025_654	DUPR_2025_D381	DDOR_2024_8696	Shandin 115/12 (D)	Northpark	Capacity (UCT)	Increase Circuit/Sub Capacity	Shandin 115/12 (D) - Add 1 - 12.0 kV circuit(s) for a total of	Primary Feeder - Cable/Conductor	6/1/2027	5.07	3.04	1.67	1.70
GNA_2025_653	DUPR_2025_D603	DUPR_2025_731087	Shandin 115/12 (D)	Northpark	Capacity	Increase Circuit/Sub Capacity	Shandin 115/12 (D): Circuit #12 to offload Northpark and o	Primary Feeder - Cable/Conductor	6/1/2027	3.00	2.89	2.30	2.35
GNA_2025_143	DUPR_2025_D550	DUPR_2025_679044	Palm Canyon 33/12 (D)	Caribbean	Capacity (UCT)	Underground Cable Temperature Mitigation	Canina 12kV is showing duct bank temperatures above 90	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.22	0.26
	DUPR_2025_D378	DDOR_2024_8695	Valley 115/12 (D)	Nova	Capacity (UCT)	Underground Cable Temperature Mitigation	Valley 115/12 (D) - Add 4 - 12.0 kV circuit(s) for a total of	15 Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.00
	DUPR_2025_D660	DUPR_2025_777212	Valley 115/12 (D)	Nova	Capacity (UCT)	Underground Cable Temperature Mitigation	Valley 115/12 (D) - New DSP Circuit #12 - Heritage 12kV -	N Primary Feeder - Cable/Conductor	12/31/2027	0.00	0.00	0.00	0.00
GNA_2025_552	DUPR_2025_DV19	DDOR_2024_DVAR Plan_24	Valley 115/12 (D)	Nova	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2025	0.42	0.02	0.36	0.37
GNA_2025_313	DUPR_2025_D861	DUPR_2025_DSP35936	Archibald 66/12 (D)	Novac	Capacity	Increase Circuit/Sub Capacity	Archibald 66/12 (D) - Add 1 - 12.0 kV circuit(s) for a total of	Primary Feeder - Cable/Conductor	6/1/2028	2.24	3.60	5.10	2.20
GNA_2025_529	DUPR_2025_D762	DUPR_2025_8809	Alessandro 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Cajalco 115/12 (D) - Add 2 - 12.0 kV circuit(s) for a total of	1 Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.52
GNA_2025_531	DUPR_2025_D93	DDOR_2022_8476	Alessandro 115/33 (D)	null	Capacity	Increase Circuit/Sub Capacity	Alessandro 115/33 (D) - Install (1) 56MVA Transformer on	8 Substation - Upgrade Components	6/1/2025	0.36	11.44	23.81	28.50
GNA_2025_147	DUPR_2025_D891	DUPR_2025_DSP37350	Alhambra 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Dalhambra 66/16 (D) - Replace Limiting Components on it	Substation - Upgrade Components; Primary Fe	6/1/2027	0.00	3.74	11.00	13.32
GNA_2025_294	DUPR_2025_D170	DDOR_2024_522003	Amalia 16/4.16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Amalia 16/4.16 kV - Fettery 4 kV - Cutover to Repetto 16 kV	Primary Feeder - Cable/Conductor	6/1/2025	1.60	0.00	0.00	0.00
GNA_2025_294	DUPR_2025_D172	DDOR_2024_522029	Amalia 16/4.16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Amalia 16/4.16 kV - Leonard 4 kV - Cutover to Repetto 16 kV	Primary Feeder - Cable/Conductor	6/1/2025	1.60	0.00	0.00	0.00
GNA_2025_54	DUPR_2025_S65	DUPR_2025_8835	Antelope 220/66 (S)	null	Reactive Power	Reactive Power Concern Mitigation	Antelope 220/66 kV - Install 1 - 28.8 MVAR 66 kV capacitor	Primary Feeder - Capacitor	6/1/2029	0.00	19.90	69.00	83.60
GNA_2025_578	DUPR_2025_D358	DDOR_2024_8585	Aqueduct 115/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Aqueduct 115/12 (D) - Add (1) 28 MVA Transformer for a tot	Substation - Upgrade Components; Primary Fe	6/1/2027	0.00	0.00	0.00	1.67
GNA_2025_314	DUPR_2025_D879	DUPR_2025_DSP37242	Archibald 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Archibald 66/12 (D) - Increase transformer capacity from	1 Substation - Upgrade Components	6/1/2029	17.90	31.10	32.00	34.40
GNA_2025_265	DUPR_2025_D207	DDOR_2024_532031	Athens 16/4.16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Partial Cutover 4KV: 49 Transformers on Anzac 4KV %	After Primary Feeder - Cable/Conductor	6/1/2025	0.90	1.00	1.10	1.20
GNA_2025_557	DUPR_2025_D877	DUPR_2025_DSP37241	Auld 115/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Tenaja 115/12 (D) - Add 1 - 12.0 kV circuit(s) for a total of	9 Substation - Upgrade Components	6/1/2029	0.00	0.00	0.00	2.20
GNA_2025_318	DUPR_2025_D729	DUPR_2025_8797	Bain 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Bain 66/12 kV (D) - Install new 28 MVA Transformer, an add	Substation - Upgrade Components	6/1/2028	0.00	0.00	0.00	30.20
GNA_2025_1	DUPR_2025_S95	DUPR_2025_8958	Barre 220/66 (S)	null	Capacity	Increase Circuit/Sub Capacity	Barre 220/66 Substation: Reconnector approximately 1.4 n	Primary Feeder - Cable/Conductor	6/1/2028	9.17	9.06	10.04	11.24
GNA_2025_667	DUPR_2025_D586	DUPR_2025_730093	Bloomington 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Add new 12kV circuit % Wimbledon substitution for a total of	Primary Feeder - Cable/Conductor	6/1/2027	5.80	8.90	20.10	16.20
GNA_2025_667	DUPR_2025_D752	DUPR_2025_8805	Bloomington 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Colton 66/12 (D) - Add 2 - 12.0 kV circuits for a total of	1 Substation - Upgrade Components; Primary Fe	6/1/2028	5.78	8.87	11.93	19.91
GNA_2025_667	DUPR_2025_D820	DUPR_2025_8886	Bloomington 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Wimbledon 66/12 (D) - Install two (2) new 12 kV circuits for	Primary Feeder - Cable/Conductor	6/1/2027	5.80	8.90	20.10	16.20
GNA_2025_85	DUPR_2025_D558	DUPR_2025_687005	Blythe 33/33 (D)	null	Capacity	Increase Circuit/Sub Capacity	Install (1) one 3.6 MVAR capacitor on the 33kV circuit just	Primary Feeder - Cable/Conductor	6/1/2026	10.72	26.35	33.11	43.95
GNA_2025_85	DUPR_2025_D559	DUPR_2025_687006	Blythe 33/33 (D)	null	Capacity	Increase Circuit/Sub Capacity	Install (1) one 3.6 MVAR capacitor on the 33kV circuit just	Primary Feeder - Cable/Conductor	6/1/2026	10.72	26.35	33.11	43.95
GNA_2025_85	DUPR_2025_D560	DUPR_2025_687007	Blythe 33/33 (D)	null	Capacity	Increase Circuit/Sub Capacity	Install (1) one 3.6 MVAR capacitor on the 33kV circuit just	Primary Feeder - Cable/Conductor	6/1/2026	10.72	26.35	33.11	43.95
GNA_2025_85	DUPR_2025_D561	DUPR_2025_687008	Blythe 33/33 (D)	null	Capacity	Increase Circuit/Sub Capacity	Install (1) one 3.6 MVAR capacitor on the 33kV circuit just	Primary Feeder - Cable/Conductor	6/1/2026	10.72	26.35	33.11	43.95
GNA_2025_2	DUPR_2025_S39	DDOR_2024_8747	Bradbury-Hopeful segment of Rio Hondo-Arc null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Rio Hondo-Arcadia-Bradbury-Hopeful 66 kV Subtransmissi	Primary Feeder - Cable/Conductor	6/1/2027	1.90	4.00	4.80	4.30	
GNA_2025_166	DUPR_2025_D393	DDOR_2024_DSP35989	Brookhurst 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Brookhurst 66/12 kV (D) - Replace (2) 22.4 MVA B-Bank Tra	Substation - Upgrade Components; Primary Fe	12/31/2028	2.93	3.09	3.33	3.61
GNA_2025_271	DUPR_2025_D150	DDOR_2023_8501	Bullis 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Bullis 66/16 (D) - Install one new 16 kV circuit for a total of	1 Substation - Upgrade Components; Primary Fe	12/31/2026	16.18	18.35	26.32	26.85
GNA_2025_538	DUPR_2025_D95	DDOR_2022_8482	Bunker 115/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Bunker 115/12 (D) - Increase transformer capacity from	84 Substation - Upgrade Components; Primary Fe	12/31/2025	5.52	6.98	30.65	21.33
GNA_2025_540	DUPR_2025_D720	DUPR_2025_8792	Cajalco 115/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Cajalco 115/12 (D) - Increase transformer capacity from	72 Substation - Upgrade Components	6/1/2028	0.00	0.00	0.00	5.65
GNA_2025_235	DUPR_2025_D338	DDOR_2024_8508	Cal City 'B' 33/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Cal City 115/12 (D) & 115/33 kV (D) - Cancelling PIN #8508	Substation - Upgrade Components; Substation	6/30/2028	0.00	0.00	0.00	4.70
GNA_2025_235	DUPR_2025_D557	DUPR_2025_686018	Cal City 'B' 33/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Stem P.T. 33/12 kV (A): Construct new tie switch between	Primary Feeder - Cable/Conductor	6/1/2025	0.90	0.80	0.80	0.00
GNA_2025_459	DUPR_2025_S13	DDOR_2023_8438	Channel Island 66/16 (D)	null	Reliability, Voltage	Reactive Power Concern, Voltage Mitigation	Channel Islands 66/16 kV - Install a 66 kV 2 stage 28.8 MVA	Primary Feeder - Capacitor	6/1/2027	0.00	0.00	0.07	0.07
GNA_2025_112	DUPR_2025_S59	DUPR_2025_8787	Chino, Sec. A 220/66 (S)	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Chino 220/66 kV: Loss of A-Bank Scheme (SOB32)	Substation - Upgrade Components	12/31/2026	100.40	96.70	111.50	116.10
GNA_2025_113	DUPR_2025_S60	DUPR_2025_8787	Chino, Sec. C 220/66 (S)	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Chino 220/66 kV: Loss of A-Bank Scheme (SOB32)	Substation - Upgrade Components	12/31/2026	128.40	126.50	140.20	145.00
GNA_2025_113	DUPR_2025_S91	DUPR_2025_8904	Chino, Sec. C 220/66 (S)	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Chino 220/66 kV: Diamond Bar-Nogales 66 kV Tie Line	Primary Feeder - Cable/Conductor	12/31/2027	0.00	0.00	0.00	0.00
GNA_2025_3	DUPR_2025_S24	DDOR_2024_8588	Chino-Ganesha-Plastic 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Ganesha: Recable 1.80 miles of Chino-Ganesha-Plastic (G	Primary Feeder - Cable/Conductor	12/31/2026	0.00	0.00	0.00	0.00
GNA_2025_678	DUPR_2025_D755	DUPR_2025_8805	Colton 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Colton 66/12 (D) - Add 2 - 12.0 kV circuits for a total of	1 Substation - Upgrade Components; Primary Fe	6/1/2028	0.00	0.00	0.20	9.20
GNA_2025_129	DUPR_2025_D894	DUPR_2025_DSP37387	Comuta 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Comuta 66/12 (D): Upgrade Limiting Components, Install a	Substation - Upgrade Components; Primary Fe	6/1/2029	8.70	7.20	7.20	5.70
GNA_2025_689	DUPR_2025_D401	DDOR_2024_DSP36620	Cortez 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Cortez 66/12 (D) - Upgrading limiting component Low Volta	Substation - Upgrade Components	6/1/2028	0.00	0.00	0.00	0.43
GNA_2025_386	DUPR_2025_D595	DUPR_2025_730099	Cucamonga 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Genamic 66/12 - Install one (1) new 12kV circuit	Primary Feeder - Cable/Conductor	6/1/2027	2.20	5.20	8.00	8.60
GNA_2025_244	DUPR_2025_D801	DUPR_2025_8843	Culver 66/4.16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Genamic 66/12 - New circuit (Redeye 12kV) to offload EV c	Primary Feeder - Cable/Conductor	6/1/2027	2.20	5.20	8.00	8.60
GNA_2025_130	DUPR_2025_D799	DUPR_2025_8839	Cypress 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Culver 66/12 (D): Increase substitution capacity from	17.6 Substation - Upgrade Components; Primary Fe	12/31/2026	5.84	5.84	3.04	3.24
GNA_2025_431	DUPR_2025_D786	DUPR_2025_8827	Dalton 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Cypress 66/12 (D): UPG SUB Capacity from 74.52 MVA to	1 Substation - Upgrade Components	12/31/2027	19.58	21.18	23.98	18.98
GNA_2025_188	DUPR_2025_D710	DUPR_2025_8780	Decleaz 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Dalton 66/12 (D) - Install (1) New 28 MVA Transformer and	Substation - Upgrade Components	6/1/2028	0.00	0.00	13.13	14.80
GNA_2025_131	DUPR_2025_D895	DUPR_2025_DSP37391	Del Amo 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Etswana 66/33 (D): Adding 33 kV to Etswana Substation	Primary Feeder - Cable/Conductor	6/1/2029	29.80	42.30	60.00	61.80
GNA_2025_4	DUPR_2025_S18	DDOR_2024_8513	Del Sur Leg of Del Sur-Lancaster-Riteaid 66 k null	Capacity	Increase Circuit/Sub Capacity	Increase Circuit/Sub Capacity	Del Amo 66/12 (D) - Increase Substation capacity from	72 Substation - Upgrade Components	6/1/2029	0.00	0.00	0.00	11.26
GNA_2025_4	DUPR_2025_S19	DDOR_2024_8513	Del Sur Leg of Del Sur-Lancaster-Riteaid 66 k null	Capacity	Increase Circuit/Sub Capacity	Increase Circuit/Sub Capacity	Del Sur - Lancaster - Riteaid 66 kV Line: Reconnector/Rebu	Primary Feeder - Cable/Conductor	6/1/2026	8.90	13.30	14.70	16.20
GNA_2025_5	DUPR_2025_S20	DDOR_2024_8513	Del Sur Leg of Del Sur-Lancaster-Riteaid 66 k null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Increase Circuit/Sub Capacity, Reliability Mitigation	Del Sur - Lancaster - Riteaid 66 kV Line: Reconnector/Rebu	Primary Feeder - Cable/Conductor	6/1/2026	5.20	9.60	11.00	12.50
GNA_2025_5	DUPR_2025_S21	DDOR_2024_8513	Del Sur Leg of Del Sur-Lancaster-Riteaid 66 k null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Increase Circuit/Sub Capacity, Reliability Mitigation	Del Sur - Lancaster - Riteaid 66 kV Line: Reconnector/Rebu	Primary Feeder - Cable/Conductor	6/1/2026	5.20	11.80	15.40	17.40
GNA_2025_239	DUPR_2025_D341	DDOR_2024_8508	Edwards 115/33 (D)	null	Capacity	Increase Circuit/Sub Capacity	Del Sur - Lancaster - Riteaid 66 kV Line: Reconnector/Rebu	Primary Feeder - Cable/Conductor	6/1/2026	1.30	7.90	11.40	13.40
GNA_2025_153	DUPR_2025_S52	DUPR_2025_8713	El Nido 220/66 (S)	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Cal City 115/12 (D) & 115/33 kV (D) - Cancelling PIN #8508	Substation - Upgrade Components; Substation	6/30/2028	0.00	0.00	0.00	18.10
	DUPR_2025_S8	DDOR_2020_6698	Elizabeth Lake-Pitchgen 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	El Nido 220/66 kV Substation: Install 3rd A-Bank as a Hot S	Substation -					

U)	Deficiency %						Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
2029 ^a	Units	2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b							
1.26	MW	12.96%	13.20%	13.67%	14.27%	14.98%	2502	83	0	0	2		Existing
0.00	MW	29.17%	29.17%	0.00%	0.00%	0.00%	1013	10	0	0	0		Existing
1.46	MW	0.00%	11.25%	18.33%	9.28%	12.21%	2300	150	0	0	6		Existing
1.78	MW						2625	64	0	1	12		Existing
0.00	MW						2625	64	0	1	12		New
0.00	MW						2625	64	0	1	12		New
1.91	MW	17.75%	17.75%	17.75%	17.75%	17.75%	0	0	0	0	0		Existing
1.91	MW	17.75%	17.75%	17.75%	17.75%	17.75%	0	0	0	0	0		Existing
1.75		99.51%	96.82%	104.08%	99.48%	97.48%	0	0	0	0	0		Existing
4.89	MW						2019	117	2	2	29		Existing
0.00	MW						2019	117	2	2	29		Existing
0.00	MW						2019	117	2	2	29		Existing
1.78	MW						2019	117	2	2	29		Existing
2.41	MW						2019	117	2	2	29		New
0.30	MW						1464	117	0	1	7		New
0.00	MW						1936	78	1	2	22		Existing
0.00	MW						1936	78	1	2	22		New
0.39							1936	78	1	2	22		Existing
2.54	MW						2528	175	0	2	37		New
2.48	MW	0.00%	0.00%	0.00%	0.40%	1.92%	19503	1816	4	6	286		New
33.77	MW						22	28	0	1	6		Existing
0.00	MW						24530	3737	25	2	284		New
0.00	MW	10.65%	0.00%	0.00%	0.00%	0.00%	4471	634	7	1	41		Existing
0.00	MW	10.65%	0.00%	0.00%	0.00%	0.00%	4471	634	7	1	41		Existing
95.20	MVAR	0.00%	138.19%	479.17%	580.56%	661.11%	130635	13150	87	252	860		New
4.13	MW	0.00%	0.00%	0.00%	1.56%	3.86%	16324	1213	5	14	101		Existing
4.40	MW	13.66%	23.73%	24.42%	26.25%	3.36%	14847	1148	5	70	192		New
0.00	MW	12.10%	13.44%	14.78%	16.13%	0.00%	3562	129	4	0	18		Existing
3.80	MW	0.00%	0.00%	0.00%	1.53%	2.64%	22181	1792	3	20	158		New
30.10	MW	0.00%	0.00%	0.00%	41.60%	41.46%	7702	836	3	8	81		New
12.31	MW	8.74%	8.63%	9.57%	10.71%	11.72%	0	0	0	0	0		New
0.90	MW	4.03%	6.19%	13.98%	11.27%	0.63%	32146	3728	12	8	376		New
4.59	MW	4.02%	6.17%	8.30%	13.85%	3.19%	32146	3728	12	8	376		New
0.90	MW	4.03%	6.19%	13.98%	11.27%	0.63%	32146	3728	12	8	376		New
44.01	MW	15.33%	37.68%	47.34%	62.84%	62.93%	0	0	0	0	0		New
44.01	MW	15.33%	37.68%	47.34%	62.84%	62.93%	0	0	0	0	0		New
44.01	MW	15.33%	37.68%	47.34%	62.84%	62.93%	0	0	0	0	0		New
44.01	MW	15.33%	37.68%	47.34%	62.84%	62.93%	0	0	0	0	0		New
4.10	MW	1.53%	3.23%	3.87%	3.47%	3.31%	41038	6797	35	6	477		Existing
6.65	MW	5.63%	5.94%	6.40%	6.94%	12.79%	16422	1559	3	4	123		Existing
28.85	MW	19.65%	22.28%	31.96%	32.60%	35.03%	11565	1749	25	2	202		Existing
23.50	MW	5.08%	6.42%	28.20%	19.63%	21.63%	14708	1297	1	4	193		Existing
6.43	MW	0.00%	0.00%	0.00%	6.41%	7.29%	11731	646	16	28	80		New
4.70	MW						6056	420	0	0	26		Existing
0.00	MW						6056	420	0	0	26		New
0.07	Vpu						25651	2497	8	19	172		Existing
113.60	MW	29.88%	29.38%	33.18%	34.55%	33.81%	62431	11025	63	41	829		New
142.40	MW	38.21%	37.65%	41.73%	43.15%	42.38%	77356	8299	31	71	855		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	77356	8299	31	71	855		New
2.50	MW	0.00%	0.00%	0.00%	0.00%	2.02%	28326	3898	27	23	319		Existing
9.41	MW	0.00%	0.00%	0.28%	12.67%	12.96%	18952	2210	10	16	230		New
6.20	MW	13.57%	11.23%	11.23%	8.89%	9.67%	13296	1507	11	2	128		New
1.00	MW	0.00%	0.00%	0.00%	0.39%	0.90%	18446	2957	28	7	182		Existing
1.20	MW	1.50%	3.54%	5.44%	5.85%	0.82%	16352	4195	18	6	308		Existing
1.20	MW	1.50%	3.54%	5.44%	5.85%	0.82%	16352	4195	18	6	308		New
3.54	MW	34.03%	34.03%	17.72%	18.88%	20.63%	7644	994	8	0	73		New
19.58	MW	26.27%	28.42%	32.18%	25.47%	26.27%	15396	2428	16	1	210		New
15.04	MW	0.00%	0.00%	18.05%	20.35%	20.68%	7305	1221	38	4	137		New
46.70	MW	24.02%	33.83%	47.98%	49.42%	32.07%	13623	2240	18	8	162		New
16.78	MW	0.00%	0.00%	0.00%	15.47%	23.05%	6336	570	4	0	115		New
18.00	MW	14.42%	21.56%	23.82%	26.26%	29.17%	24683	3290	27	55	254		Existing
14.30	MW	8.43%	15.56%	17.83%	20.26%	23.18%	24683	3290	27	55	254		Existing
21.40	MW	6.24%	14.15%	18.47%	20.86%	25.66%	24683	3290	27	55	254		Existing
17.30	MW	1.56%	9.47%	13.67%	16.07%	20.74%	24683	3290	27	55	254		Existing
17.80	MW						7	6	0	0	0		Existing
76.00	MW	0.00%	0.00%	0.00%	21.43%	22.62%	79868	11504	90	21	797		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	7154	1131	20	14	104		Existing
15.54	MW	0.00%	1.13%	4.63%	7.84%	11.34%	12877	1286	11	9	123		New
15.59	MW	13.35%	13.43%	14.71%	18.56%	18.66%	14110	2283	23	2	186		New
3.80	MW	0.00%	0.00%	12.23%	49.86%	3.62%	7612	292	4	3	81		New
18.42	MW	16.75%	32.65%	34.86%	35.27%	37.08%	4433	977	19	4	93		Existing
0.00	Vpu	0.00%	0.00%	0.00%	0.00%	0.00%	18	12	0	1	1		Existing
14.34	MW	20.73%	21.67%	23.73%	25.61%	26.92%	7856	1092	9	1	64		Existing
1.20	MW	0.00%	0.00%	0.00%	0.58%	0.88%	24663	2876	12	14	289		New
4.76	MW	0.00%	3.02%	4.64%	2.24%	4.54%	9384	2629	25	6	167		New
25.22	MW	18.42%	18.42%	27.51%	20.79%	24.02%	21192	1490	2	6	176		New
8.26	MW						1857	543	5	13	62		Existing
8.26	MW						1857	543	5	13	62		Existing
29.02	MW	0.00%	57.96%	161.18%	267.43%	266.97%	274	170	6	3	19		Existing
21.70	MW	0.00%	0.00%	56.04%	119.45%	119.23%	274	170	6	3	19		New

										Deficiency (MW, MVAR or V%)				
GNA ID	DUPR ID	DUPR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment to Be Installed	Operating Date	2025 ^A	2026 ^A	2027 ^A	2028 ^A	
GNA_2025_506	DUPR_2025_D164	DDOR_2023_8559	Haskell 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Haskell 66/16 (D) - Add 2.0 MVAR of capacitors. Add 1 -16 / Substation - Upgrade Components; Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	5.41	0.00		
GNA_2025_506	DUPR_2025_D545	DUPR_2025_659414	Haskell 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Haskell 66/16 kV - DSP - New Circuit - Brutus 16 kV Please / Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	5.41	0.00		
GNA_2025_220	DUPR_2025_S50	DUPR_2025_8634	Hinson 220/66 (S)	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Hinson 220/66 kV Substation: Install 4th A-Bank	Substation - Upgrade Components	12/31/2027	0.00	0.00	74.80	175.40	
GNA_2025_155	DUPR_2025_D903	DUPR_2025_DSP37551	Inglewood 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Inglewood 66/16 - Upgrade Inglewood Limiting Component Substation - Upgrade Components; Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.00	0.20		
	DUPR_2025_D421	DDOR_2024_DSP7321	Irvine 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Estrella 66/12 kV (D) - Install (1) New 12 kV Circuit (Circuit: Substation - Upgrade Components; Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.00	0.00		
	DUPR_2025_D623	DUPR_2025_743033	Irvine 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	New DSP Circuit #10	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.00	
	DUPR_2025_D848	DUPR_2025_8935	Irvine 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Las Lomas 66/12 kV (D) - Install one (1) DSP 12 kV Circuit (Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.00		
	DUPR_2025_D905	DUPR_2025_DSP74341	Irvine 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Safari 33/12 kV (D) - Install one (1) DSP 12 kV Circuit (total / Substation - Upgrade Components	6/1/2028	0.00	0.00	0.00	0.00		
GNA_2025_337	DUPR_2025_D901	DUPR_2025_DSP37423	Jefferson 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Perez 66/12 kV (D): Build new 66/12 kV compact substation Substation - Upgrade Components; Primary Feeder - Cable/Conductor	6/1/2029	0.90	4.00	3.40	9.20		
	DUPR_2025_S37	DDOR_2024_8734	La Cienega-Beverly 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	La Cienega - Beverly 66kV Subtransmission line: Rebuild 2.; Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.00	0.00		
GNA_2025_8	DUPR_2025_S55	DUPR_2025_8761	La Cienega-El Nido-Tahiti 66 kV	null	Capacity	Increase Circuit/Sub Capacity	La Cienega - El Nido - Tahiti 66 kV Line and La Cienega - El Nido Primary Feeder - Cable/Conductor	6/1/2025	5.50	9.60	11.30	16.60		
GNA_2025_9	DUPR_2025_S56	DUPR_2025_8761	La Cienega-El Nido-Tahiti 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	La Cienega - El Nido - Tahiti 66 kV Line and La Cienega - El Nido Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	1.30	9.90		
GNA_2025_134	DUPR_2025_D400	DDOR_2024_DSP36606	La Mirada 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	La Mirada 66/12 (D): Upgrade Limiting Components to Rais Substation - Upgrade Components	12/31/2025	10.00	9.80	9.70	9.60		
GNA_2025_254	DUPR_2025_D856	DUPR_2025_8954	Laguna Bell 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Laguna Bell 66/16 (D): Install an additional 66/16 28 MVA T Substation - Upgrade Components; Primary Feeder - Cable/Conductor	6/1/2029	0.00	0.00	0.00	0.00		
	DUPR_2025_S38	DDOR_2024_8741	Laguna Bell-Cudahy 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Laguna Bell - Cudahy 66 kV: Recable 0.18 mi. 1750 KCMIL / Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.00		
	DUPR_2025_S35	DDOR_2024_8728	Laguna Bell-Cudahy-Shultz 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Laguna Bell - Cudahy - Shultz 66 kV: Reconductor 3.05 mi. / Primary Feeder - Cable/Conductor	12/31/2027	0.00	0.00	0.00	0.00		
GNA_2025_55	DUPR_2025_D868	DUPR_2025_DSP37211	Lancaster 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Lancaster 66/12 (D): Upgrade Substation Capacity from 10 Substation - Upgrade Components	6/1/2029	2.50	9.69	14.50	13.98		
	DUPR_2025_D906	DUPR_2025_DSP74341	Limestone 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Safari 33/12 kV (D) - Install one (1) DSP 12 kV Circuit (total / Substation - Upgrade Components	6/1/2028	0.00	0.00	0.00	0.00		
GNA_2025_281	DUPR_2025_D38	DDOR_2020_8293	Linden 12/4.16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Linden 12/4.16 (D): Replace 4kV Switchrack Disconnect S Substation - Upgrade Components; Primary Feeder - Cable/Conductor	6/1/21/2025	0.00	1.42	1.52	1.52		
GNA_2025_152	DUPR_2025_D858	DUPR_2025_DSP31252	Maraschino 115/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Maraschino 115/12 (D) - Upgrade Substation Capacity from Substation - Upgrade Components	12/31/2029	0.00	0.00	0.00	1.72		
GNA_2025_246	DUPR_2025_D684	DUPR_2025_8654	Marine 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Colorado 66/16 - Install (1) new 16kV circuit to offload Marl Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.62	0.00	0.00		
GNA_2025_638	DUPR_2025_D800	DUPR_2025_8841	Maxwell 115/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Maxwell 115/12 (D) - Increase transformer capacity by Repl Substation - Upgrade Components	6/1/2026	3.37	5.33	8.80	11.61		
GNA_2025_10	DUPR_2025_S10	DDOR_2021_8121	Mesa-Laguna Bell-Narrows 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Mesa-Laguna Bell-Narrows 66 kV Subtrans Line & Narrows / Primary Feeder - Cable/Conductor	12/31/2025	9.30	10.40	9.90	11.40		
GNA_2025_11	DUPR_2025_S9	DDOR_2021_6055	Mesa-Narrows 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Mesa-Narrows 66kV Subtransmission Line: Reconductor 3. Primary Feeder - Cable/Conductor	3/1/2027	9.90	11.10	10.50	12.00		
GNA_2025_342	DUPR_2025_D718	DUPR_2025_8780	Miliken 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Etswana 66/33 (D): Adding 33 kV to Etswana Substation	Primary Feeder - Cable/Conductor	6/1/2029	0.00	8.50	17.40	7.40	
GNA_2025_348	DUPR_2025_S51	DUPR_2025_8680	Mira Loma 220/66 (S)	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Mira Loma 220/66 kV: Add 4th 280 MVA A-Bank (Hot Spare) Primary Feeder - Cable/Conductor	12/31/2029	172.40	209.10	236.60	240.80		
GNA_2025_347	DUPR_2025_S23	DDOR_2024_8580	Mira Loma 220/66 (S)	null	Reactive Power	Reactive Power Concern Mitigation	Mira Loma 220/66 kV - Install a 28.8 MVAR capacitor bank / Primary Feeder - Capacitor	12/31/2025	14.50	37.70	58.10	52.70		
GNA_2025_351	DUPR_2025_D841	DDOR_2022_8481	Mira Loma 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Mira Loma 66/12 (D) - Increase transformer capacity from Substation - Upgrade Components; Primary Feeder - Cable/Conductor	6/1/2025	26.92	31.62	39.72	45.52		
GNA_2025_351	DUPR_2025_D862	DUPR_2025_DSP35950	Mira Loma 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Mira Loma 66/12 (D) - Increase transformer capacity from Substation - Upgrade Components	6/1/2029	0.00	0.00	3.35	9.09		
GNA_2025_12	DUPR_2025_S25	DUPR_2024_8595	Mira Loma-Archibald	null	Capacity	Increase Circuit/Sub Capacity	Mira Loma-Archibald-Cleanren 66 kV Line:Tap Existing Mira Primary Feeder - Cable/Conductor	6/1/2026	12.50	21.30	24.40	23.90		
GNA_2025_13	DUPR_2025_S26	DDOR_2024_8595	Mira Loma-Archibald	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Mira Loma-Archibald-Cleanren 66 kV Line:Tap Existing Mira Primary Feeder - Cable/Conductor	6/1/2026	31.10	44.00	48.70	47.20		
GNA_2025_14	DUPR_2025_S27	DDOR_2024_8595	Mira Loma-Archibald-Bain-Metalcan	null	Capacity	Increase Circuit/Sub Capacity	Mira Loma-Archibald-Cleanren 66 kV Line:Tap Existing Mira Primary Feeder - Cable/Conductor	6/1/2026	0.00	5.50	8.90	14.00		
GNA_2025_15	DUPR_2025_S28	DUPR_2024_8595	Mira Loma-Archibald-Bain-Metalcan	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Mira Loma-Archibald-Cleanren 66 kV Line:Tap Existing Mira Primary Feeder - Cable/Conductor	6/1/2026	42.70	54.10	59.50	64.20		
	DUPR_2025_S36	DDOR_2024_8730	Moorpark-Royal No. 2 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Moorpark C - Royal #2 66 kV Subtransmission Line: Recabl Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.00		
	DUPR_2025_S91	DDOR_2022_8402	Naomi 16/4.16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Naomi 16/4.16 (D): Replace 4kV (3) sets of 800A Disconne Substation - Upgrade Components; Primary Feeder 12/31/2026	0.00	0.00	0.00	0.00			
GNA_2025_60	DUPR_2025_S17	DDOR_2023_8534	Neenach 66/12 (D)	null	Reliability, Voltage	Reactive Power Concern, Voltage Mitigation	Neenach 66/12 kV Substation (D) - Install 14.4 MVAR capa Primary Feeder - Capacitor	12/31/2025	0.97	0.96	0.91	0.91		
GNA_2025_545	DUPR_2025_D882	DUPR_2025_DSP37252	Nelson 115/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Nelson 115/12 (D) - Add 1 -12.0 kV circuit(s) for total of 1: Substation - Upgrade Components	6/1/2029	4.74	7.37	11.72	12.87		
	DUPR_2025_D34	DDOR_2020_4800	Newhall 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Del Valle 66/16 (D) - Construct a new 66/16.0 kV substa Substation - New Substation; Primary Feeder - 4/13/2029	0.00	0.00	0.00	0.00			
GNA_2025_16	DUPR_2025_S15	DDOR_2023_8514	Oasis-Palmdale-Quartz Hill 66 kV	null	Capacity	Increase Circuit/Sub Capacity	Quartz Hill 66/12 (D) -	Primary Feeder - Cable/Conductor	6/1/2025	0.00	4.90	7.10	9.70	
GNA_2025_17	DUPR_2025_S16	DDOR_2023_8514	Oasis-Palmdale-Quartz Hill 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Quartz Hill 66/12 (D) -	Primary Feeder - Cable/Conductor	6/1/2025	0.00	21.30	27.80	31.80	
GNA_2025_286	DUPR_2025_D135	DDOR_2023_546058	Oldfield 12/4.16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Oldfield 12/4.16 - Market 4kV: Partial Cutover of 27 transfo Primary Feeder - Cable/Conductor	6/1/2025	0.90	0.90	1.00	0.40		
GNA_2025_392	DUPR_2025_S49	DUPR_2025_8603	Padua 220/66 (S)	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Padua 220/66 kV Substation: Install 4th A-Bank as an N-1 s Substation - Upgrade Components	5/1/2028	9.30	23.10	35.00	35.10		
GNA_2025_64	DUPR_2025_D869	DUPR_2025_DSP37213	Palmdale 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Palmdale 66/12 kV (D) - Increasing substation capacity from Substation - Upgrade Components; Primary Feeder - Cable/Conductor	6/1/2029	0.00	0.48	0.91	1.52		
GNA_2025_86	DUPR_2025_D337	DDOR_2024_8360	Pebble Beach 2/4.12 (D)	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Catalina 12/2.4 kV Substation: Replace existing six (6) sing Substation - Upgrade Components	12/31/2025	1.75	1.75	1.75	1.75		
GNA_2025_355	DUPR_2025_D407	DDOR_2024_DSP36696	Pedley 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Ban 66/12 (D) - Add 2 -12.0 kV circuit(s) for a total of 12 n Substation - Upgrade Components; Primary Feeder 6/1/2028	18.22	20.13	22.98	25.63			
GNA_2025_645	DUPR_2025_D892	DUPR_2025_DSP37370	Pepper 115/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Pepper 115/12 (D) - Add 4.8 MVAR of Capacitors and Incre: Substation - Upgrade Components; Primary Feeder 6/1/2029	0.00	0.00	22.30	7.09			
GNA_2025_18	DUPR_2025_S7	DDOR_2019_8252	Pitchgen Leg of Saugus-Colossus-Lockheed-nu	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Saugus - Colossus - Lockheed - Pitchgen 66 kV Subtransmi Primary Feeder - Cable/Conductor	6/1/2026	0.00	1.00	3.50	4.80		
GNA_2025_694	DUPR_2025_D846	DUPR_2025_8931	Puente 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Puente 66/12 (D) - Install (1) new 28 MVA B-Bank Transform Substation - Upgrade Components; Substation 6/1/2028	0.00	0.87	3.67	3.87			
GNA_2025_65	DUPR_2025_D348	DDOR_2024_8570	Quartz Hill 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Quartz Hill substation - Increase Substation Capacity from Substation - Upgrade Components	6/1/2025	14.56	15.43	16.48	17.00		
GNA_2025_65	DUPR_2025_D889	DUPR_2025_DSP37326	Quartz Hill 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Quartz Hill 66/12 kV (D) - Install one (1) 28-MVA transforme Substation - Upgrade Components; Primary Feeder 6/1/2029	8.06	8.93	9.98	10.50			
GNA_2025_399	DUPR_2025_S29	DDOR_2024_8596	Rector 220/66 (S)	null	Capacity	Increase Circuit/Sub Capacity	Rector 220/66 kV Substation: Parallel 4th A-Bank, Relay Co Substation - Upgrade Components	6/1/2027	0.00	0.00	0.00	7.40		
GNA_2025_19	DUPR_2025_S4	DDOR_2019_6871	Rector-Riverway #2 66 kV	null	Capacity	Increase Circuit/Sub Capacity	Rector-Riverway No.2 66 kV Subtransmission Line: Constr Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.42	0.00	0.11		
GNA_2025_20	DUPR_2025_S69	DUPR_2025_8859	Redlands-Tennessee-Yucaipa 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Redlands 66/12 (D): Upgrade Line Position (Pos. 8) for Red Substation - Upgrade Components	6/1/2027	4.70	8.00	18.20	23.30		
GNA_2025_20	DUPR_2025_S41	DDOR_2024_TSP STL36804	Redlands-Tennessee-Yucaipa 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Redlands-Tennessee-Yucaipa 66 kV Subtransmission Line: Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.93	3.81		
GNA_2025_303	DUPR_2025_D359	DDOR_2024_8586	Repetto 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Repetto 66/16 (D) - Increasing substation capacity from 9A Substation - Upgrade Components; Primary Feeder 6/1/2026	2.31	1.51	10.61	12.61			
GNA_2025_303	DUPR_2025_D867	DUPR_2025_DSP37170	Repetto 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Repetto 66/16 (D) - Increase substation capacity by install Substation - Upgrade Components; Substation 6/1/2029	2.31	1.51	10.61	12.61			
GNA_2025_435	DUPR_2025_S22	DDOR_2024_8579	Rio Hondo 220/66 (S)	null	Reactive Power	Reactive Power Concern Mitigation	Rio Hondo 66 kV: Install New 28.8 MVAR Capacitor	Primary Feeder - Capacitor	12/31/2028	1.30	9.00	30.00	43.60	
GNA_2025_442	DUPR_2025_D853	DUPR_2025_8944	Rio Hondo 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Rio Hondo 66/16 kV (D) - Increase substation capacity from Substation - Upgrade Components; Primary Feeder 6/1/2029	1.03	8.24	3.09	12.79			
GNA_2025_21	DUPR_2025_S40	DDOR_2024_8747	Rio Hondo segment of Rio Hondo-Arcadia-Br	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Rio Hondo-Arcadia-Bradbury-Hopeful 66 kV Subtransmissi Primary Feeder - Cable/Conductor	6/1/2027	10.20	12.60	14.90	14.20		
GNA_2025_22	DUPR_2025_S1	DDOR_2019_4992	Rio Hondo-Dalton-Liquid 66 kV	null	Capacity	Increase Circuit/Sub Capacity	Rio Hondo-Dalton-Liquid 66 kV Subtransmission Line: Re-C Primary Feeder - Cable/Conductor	6/1/2025	4.70	5.60	15.50	22.20		
GNA_2025_23	DUPR_2025_S2	DDOR_2019_4992	Rio Hondo-Dalton-Liquid 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Rio Hondo-Dalton-Liquid 66 kV Subtransmission Line: Re-C Primary Feeder - Cable/Conductor	6/1/2025	0.00	2.10	14.20	14.80		
GNA_2025_306	DUPR_2025_D390	DDOR_2024_8733	Rosemead 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Rosemead 66/16 (D) - Replace 3E and 3W B-Banks at Rose Substation - Upgrade Components; Primary Feeder 6/1/2028	7.58	9.78	18.78	22.88			
GNA_2025_450	DUPR_2025_S66	DUPR_2025_8857	San Bernardino 220/66 (S)	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Installing a hot-spare A-bank 4th A-bank for N-1 of the Ext Substation - Upgrade Components	6/1/2029	4.20	30.50	66.90	74.20		
GNA_2025_24	DUPR_2025_S71	DUPR_2025_8861	San Bernardino-Cardiff 66 kV	null	Capacity	Increase Circuit/Sub Capacity	San Bernardino-Cardiff 66 kV Line: Rebuild 0.187 mi. of un Substation - Upgrade Components	6/1/2027	0.00	14.60	25.60	25.70		
GNA_2025_25	DUPR_2025_S72	DUPR_2025_8861	San Bernardino-Cardiff 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	San Bernardino-Cardiff 66 kV Line: Rebuild 0.187 mi. of un Substation - Upgrade Components	6/1/2027	0.00	22.00	37.50	37.70		
GNA_2025_26	DUPR_2025_S73	DUPR_2025_8862	San Bernardino-Cardiff-Colton 66 kV	null	Capacity	Increase Circuit/Sub Capacity	San Bernardino OH reconductor: Rebuild 0.58 mi. of un Substation - Upgrade Components	6/1/2027	0.00	7.60	15.30	15.40		
GNA_2025_27	DUPR_2025_S74	DUPR_2025_8862	San Bernardino-Cardiff-Colton 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	San Bernardino OH reconductor: Rebuild 0.58 mi. of 1750 (d/o) Primary Feeder - Cable/Conductor	6/1/2027	8.10	25.50	37.50	37.		

U)	Deficiency %						Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
2025 ^a	Units	2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b							
0.00	MW	0.00%	0.00%	4.13%	0.00%	0.00%	22338	1800	12	11	160		Existing
0.00	MW	0.00%	0.00%	4.13%	0.00%	0.00%	22338	1800	12	11	160		New
179.10	MW	0.00%	0.00%	24.29%	56.95%	58.15%	88375	11924	102	40	1215		New
0.90	MW	0.00%	0.00%	0.00%	0.30%	1.36%	11475	2066	20	2	117		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	30312	2580	1	5	596		Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	30312	2580	1	5	596		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	30312	2580	1	5	596		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	30312	2580	1	5	596		New
11.20	MW	0.62%	2.77%	2.35%	6.37%	7.75%	21305	1961	5	14	451		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	12110	2954	13	12	257		Existing
17.00	MW	9.65%	16.84%	19.82%	29.12%	29.82%	22184	2678	24	6	246		New
12.60	MW	0.00%	0.00%	1.46%	11.12%	14.16%	22184	2678	24	6	246		New
9.60	MW	19.33%	18.94%	18.75%	18.55%	18.55%	5779	816	8	0	51		Existing
6.40	MW						11906	2938	62	8	206		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	52496	9866	192	26	744		Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	52496	9866	192	26	744		Existing
15.67	MW	2.01%	7.79%	11.66%	11.25%	12.60%	20803	2762	16	10	177		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	15700	3404	10	3	247		New
1.62	MW	0.00%	31.00%	33.19%	33.19%	35.37%	2685	200	2	0	31		Existing
9.89	MW	0.00%	0.00%	0.00%	1.58%	9.06%	17455	1086	12	23	157		New
0.00	MW	0.00%	0.94%	0.00%	0.00%	0.00%	9087	1670	7	0	107		New
11.96	MW	3.15%	4.98%	8.22%	10.85%	11.18%	40230	3520	4	8	480		New
11.20	MW	10.00%	11.18%	10.65%	12.26%	12.04%	44591	6626	107	19	574		Existing
11.80	MW	10.65%	11.94%	11.29%	12.90%	12.69%	32445	3558	33	9	334		Existing
9.10	MW	0.00%	5.90%	12.09%	5.14%	6.32%	2730	2039	11	5	247		New
214.40	MW	25.69%	31.16%	35.26%	35.89%	31.95%	104623	13677	65	156	2017		New
38.70	MVAR	100.69%	261.81%	403.47%	365.97%	268.75%	104623	13677	65	156	2017		Existing
47.72	MW						9349	775	2	7	126		Existing
11.33	MW						9349	775	2	7	126		New
20.90	MW	10.00%	17.04%	19.52%	19.12%	16.72%	26191	2068	10	78	357		Existing
42.70	MW	18.51%	26.19%	28.99%	28.10%	25.42%	26191	2068	10	78	357		Existing
12.30	MW	0.00%	4.40%	7.12%	11.20%	9.84%	34867	2972	13	86	446		Existing
60.50	MW	25.42%	32.20%	35.42%	38.21%	36.01%	34867	2972	13	86	446		Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	34766	5079	30	118	288		Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	6974	502	4	0	44		Existing
0.91	Vpu						489	147	6	29	5		Existing
12.96	MW	4.42%	6.88%	10.94%	12.01%	12.10%	15619	1466	10	40	170		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	20231	2793	9	20	186	CAISO: N/A CPUC: SCE submitted an Advice Letter in 2025. SCE: Licensing activities authorized internally in 2015.	Existing
15.80	MW	0.00%	4.67%	6.76%	9.24%	15.05%	55320	3938	28	36	240		Existing
44.40	MW	2.12%	15.02%	19.61%	22.43%	31.31%	55320	3938	28	36	240		Existing
0.50	MW	5.90%	5.90%	6.55%	2.62%	3.28%	5545	583	0	1	45		Existing
40.90	MW	1.40%	3.48%	5.28%	5.29%	6.17%	119019	18476	95	64	1434		New
2.33	MW	0.00%	0.37%	0.70%	1.17%	1.79%	25438	1411	6	6	81		New
1.75	MW	46.67%	46.67%	46.67%	46.67%	46.67%	0	0	0	0	0		Existing
14.07	MW	25.03%	27.65%	31.57%	35.21%	19.33%	9671	958	0	3	87		Existing
10.15	MW	0.00%	0.00%	23.45%	7.46%	10.68%	34292	2238	6	14	528		New
6.70	MW	0.00%	1.20%	4.22%	5.78%	8.07%	18508	4048	20	5	237		Existing
4.02	MW						8592	916	10	3	109		New
17.63	MW	22.34%	23.68%	25.29%	26.09%	27.05%	15429	604	3	11	60		Existing
11.13	MW	11.25%	12.46%	13.92%	14.65%	15.53%	15429	604	3	11	60		New
13.00	MW	0.00%	0.00%	0.00%	0.82%	1.44%	118704	17488	104	5828	1424		Existing
1.89	MW	0.00%	0.40%	0.00%	0.10%	1.80%	25750	2090	9	599	187	CAISO: N/A SCE: Estimated licensing activities approval June 2029	Existing
23.60	MW	3.43%	5.84%	13.28%	17.01%	17.23%	37360	3843	26	107	368		New
9.49	MW	0.00%	0.00%	1.00%	4.10%	10.20%	37360	3843	26	107	368		Existing
12.81	MW	2.46%	1.60%	11.28%	13.40%	13.61%	13548	2293	27	3	205		Existing
12.81	MW	2.46%	1.60%	11.28%	13.40%	13.61%	13548	2293	27	3	205		New
45.30	MVAR	9.03%	62.50%	208.33%	302.78%	314.58%	128649	18071	177	29	1326		Existing
12.65	MW						5225	850	15	1	68		New
13.90	MW	7.18%	8.87%	10.49%	10.00%	9.79%	20926	3410	39	6	262		Existing
22.30	MW	5.60%	6.67%	18.45%	26.43%	26.55%	12635	2035	63	5	216		Existing
15.10	MW	0.00%	1.81%	12.24%	12.76%	13.02%	12635	2035	63	5	216		Existing
23.18	MW	6.73%	8.68%	16.68%	20.32%	20.58%	18209	3640	51	8	192		Existing
76.80	MW	0.63%	4.60%	10.09%	11.19%	11.58%	112597	13458	66	180	1622		New
29.00	MW	0.00%	17.38%	30.48%	30.60%	34.52%	10346	2719	9	6	391		New
42.30	MW	0.00%	18.97%	32.33%	32.50%	36.47%	10346	2719	9	6	391		New
17.60	MW	0.00%	12.26%	24.68%	24.84%	28.39%	29384	4787	19	24	585		New
41.20	MW	9.76%	30.72%	45.18%	45.42%	49.64%	29384	4787	19	24	585		New
4.00	MW	0.00%	0.00%	0.00%	0.00%	4.76%	29384	4787	19	24	585		New
20.70	MW	0.00%	3.10%	14.40%	14.57%	17.84%	29384	4787	19	24	585		New
16.20	MW	0.00%	0.00%	9.60%	9.76%	13.06%	29384	4787	19	24	585		Existing
9.10	MW	0.00%	0.00%	9.85%	10.07%	6.64%	11392	1644	6	6	135		New
17.60	MW	0.00%	2.63%	9.49%	12.92%	12.85%	21929	3792	19	48	382		New
6.40	MW	0.00%	0.00%	2.09%	6.83%	12.14%	13497	1728	1	0	100		New
7.20	MW	0.00%	5.78%	6.27%	7.83%	8.67%	8430	2368	13	65	120		Existing
7.00	MW	0.00%	0.00%	0.00%	2.10%	2.50%	156623	25399	111	875	1426		New

										Deficiency (MW, MVAR or V%)				
GNA ID	DUPR ID	DUPR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment to Be Installed	Operating Date	2025 ^A	2026 ^A	2027 ^A	2028 ^A	
GNA_2025_470	DUPR_2025_S48	DUPR_2025_8597	Santa Clara 220/66 (S)	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Santa Clara 220/66 kV: Install a 4th A-bank. Split the syster Substation - Upgrade Components		6/1/2029	51.60	72.00	94.20	108.30	
GNA_2025_469	DUPR_2025_S14	DDOR_2023_8438	Santa Clara 220/66 (S)	null	Reactive Power	Reactive Power Concern Mitigation	Channel Islands 66/16 kV - Install a 66 kV 2 stage 28.8 MVA Primary Feeder - Capacitor		6/1/2027	0.00	0.00	0.00	4.70	
GNA_2025_247	DUPR_2025_D617	DUPR_2025_742040	Santa Monica 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Install (1) new circuit to offload Navy % Marine and Riptide / Primary Feeder - Cable/Conductor		7/1/2027	0.18	10.68	8.28	13.48	
GNA_2025_247	DUPR_2025_D685	DUPR_2025_8654	Santa Monica 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Colorado 66/16 - Install (1) new 16kV circuit to offload Marl Primary Feeder - Cable/Conductor		6/1/2027	0.00	4.18	10.68	8.38	
GNA_2025_499	DUPR_2025_D423	DDOR_2024_DSP7321	Santiago 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Estrella 66/12 kV (D) - Install (1) New 12 kV Circuit (Circuit: Substation - Upgrade Components; Primary Feeder - Capacitor		6/1/2028	0.00	0.00	0.00	0.00	
GNA_2025_499	DUPR_2025_D627	DUPR_2025_743033	Santiago 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	New DSP Circuit #10 Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	0.00	0.00	
GNA_2025_499	DUPR_2025_D852	DUPR_2025_8935	Santiago 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Las Lomas 66/12 kV (D) - Install one (1) DSP 12 kV Circuit (Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	0.00	0.00	
	DUPR_2025_S44	DDOR_2024_TSP STL36817	Santiago-Borrogo-Morro 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Santiago 'C' 220/66 (S) - Parallel/Bundle Circuit ~7,145' of Primary Feeder - Cable/Conductor		6/1/2028	0.00	0.00	0.00	0.00	
	DUPR_2025_S43	DDOR_2024_TSP STL36812	Santiago-Crown 66 kV Lie	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Crown 66/12 (D) - Upgrade (2) 66 kV, 1200 A, 31.5kA Circu Substation - Upgrade Components		6/1/2028	0.00	0.00	0.00	0.00	
	DUPR_2025_S30	DDOR_2024_8598	Santiago-Irvine No.1 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Santiago 220/66 kV: Reconfigure existing Estrella-Las Lom: Primary Feeder - Cable/Conductor		6/1/2026	0.00	0.00	0.00	0.00	
GNA_2025_31	DUPR_2025_S31	DDOR_2024_8598	Santiago-Irvine No.2 66 kV	null	Capacity	Increase Circuit/Sub Capacity	Santiago 220/66 kV: Reconfigure existing Estrella-Las Lom: Primary Feeder - Cable/Conductor		6/1/2026	0.00	6.13	11.38	11.88	
GNA_2025_32	DUPR_2025_S32	DDOR_2024_8598	Santiago-Irvine No.2 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Santiago 220/66 kV: Reconfigure existing Estrella-Las Lom: Primary Feeder - Cable/Conductor		6/1/2026	1.68	11.76	18.98	19.66	
GNA_2025_473	DUPR_2025_D864	DUPR_2025_DSP36596	Saticoy 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Saticoy 66/16 (D) - Upgrade Existing #4 B-Bank to 28 MVA, 1 Primary Feeder - Cable/Conductor		6/1/2029	0.00	0.51	1.41	3.31	
GNA_2025_33	DUPR_2025_S54	DUPR_2025_8735	Saugus - Haskell 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Saugus Substation: Upgrade Position #2 to 2000A, 50 kA, X Primary Feeder - Cable/Conductor		6/1/2029	0.00	0.00	0.00	0.00	
GNA_2025_515	DUPR_2025_D36	DDOR_2020_4800	Saugus 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Del Valle 66/16 (D) - Construct a new 66.0/16.0 kV substati Substation - New Substation; Primary Feeder - 4/13/2029		6/1/2029	0.00	0.00	0.00	0.00	
GNA_2025_34	DUPR_2025_S12	DDOR_2022_8509	Saugus-Haskell 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Saugus - Haskell 66 kV Subtransmission Line: Recable 2.7c Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	0.00	0.00	
GNA_2025_35	DUPR_2025_S5	DDOR_2019_8251	Saugus-Newhall No. 1 and No. 2 66 kV	null	Capacity	Increase Circuit/Sub Capacity	Saugus - Newhall No.1 and No.2 66 kV Line: Reconnector 2 Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	1.50	3.60	
GNA_2025_36	DUPR_2025_S6	DDOR_2019_8251	Saugus-Newhall No. 1 and No. 2 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Saugus - Newhall No.1 and No.2 66 kV Line: Reconnector 2 Primary Feeder - Cable/Conductor		6/1/2027	1.70	7.00	11.30	14.40	
GNA_2025_655	DUPR_2025_D383	DDOR_2024_8701	Shandin 115/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Del Rosa 66/12 (D) - Add (1) new 12kV circuit for a total of 1 Substation - Upgrade Components; Primary Feeder - Capacitor		6/1/2027	8.40	11.17	11.63	12.35	
GNA_2025_655	DUPR_2025_D605	DUPR_2025_731090	Shandin 115/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Del Rosa 66/12 (D): Build circuit #13 to offload Shandin 115 Primary Feeder - Cable/Conductor		6/1/2027	8.40	11.17	11.63	12.35	
GNA_2025_82	DUPR_2025_D147	DDOR_2023_8387	Shawnee 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Shawnee 66/12 (D): Addition of (1) 4.8 MVA Capacitor Bank Substation - Upgrade Components; Primary Feeder - Capacitor		6/1/2027	5.93	5.65	5.76	5.93	
GNA_2025_68	DUPR_2025_D347	DDOR_2024_8569	Shuttle 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Shuttle 66/12 kV: Substation Capacity Upgrade Substation - Upgrade Components; Primary Feeder - Capacitor		6/1/2027	6.04	12.30	17.30	22.43	
GNA_2025_288	DUPR_2025_D129	DDOR_2023_546052	Signal Hill 124/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Signal Hill 124/16 - Michigan 4kV: Partial Outover of 17 tra Primary Feeder - Cable/Conductor		6/1/2025	0.60	0.50	0.50	0.50	
GNA_2025_137	DUPR_2025_D893	DUPR_2025_DSP37377	Somerset 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Somerset 66/12 (D) - Increase Substation Capacity from 58 Substation - Upgrade Components; Primary Feeder - Capacitor		6/1/2029	0.98	3.65	5.09	2.91	
GNA_2025_222	DUPR_2025_D411	DDOR_2024_DSP36711	State Street 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	State Street 66/12 - Eliminate limited components at subst. Substation - Upgrade Components; Primary Feeder - Capacitor		6/1/2026	0.00	4.87	13.87	22.27	
GNA_2025_111	DUPR_2025_D695	DUPR_2025_8717	Stewart 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Stewart 66/12 (D): Upgrade limiting components to raise PI Substation - Upgrade Components		6/1/2026	0.30	2.30	2.20	2.20	
GNA_2025_37	DUPR_2025_S127	DUPR_2025_TSP STL36136	Sullivan-Vera 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Sullivan-Vera 66 kV Line: Line Pos. 2 and Bus-tie Pos. 6 Up Substation - Upgrade Components		6/1/2029	3.19	7.44	12.79	17.32	
GNA_2025_567	DUPR_2025_D866	DUPR_2025_DSP37162	Sun City 115/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Sun City 115/12 (D) - Increase transformer capacity from 8 Substation - Upgrade Components		6/1/2029	0.00	12.20	33.60	25.50	
GNA_2025_289	DUPR_2025_D391	DDOR_2024_8748	Sunnyside 66/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Sunnyside 66/12 (D) - Increase Substation Capacity from 6 Substation - Upgrade Components; Primary Feeder - Capacitor		6/1/2021	0.00	0.00	22.20	26.98	
GNA_2025_292	DUPR_2025_D130	DDOR_2023_546055	Sunnyside 66/4.16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Sunnyside 66/4.16 - Osgood 4kV: Partial Outover of 35 tran Primary Feeder - Cable/Conductor		6/1/2025	0.83	0.83	0.06	0.08	
GNA_2025_292	DUPR_2025_D133	DDOR_2023_546057	Sunnyside 66/4.16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Sunnyside 66/4.16 - Keever 4kV: Partial Outover of 51 trans Primary Feeder - Cable/Conductor		6/1/2025	0.60	0.50	0.00	0.00	
GNA_2025_570	DUPR_2025_D878	DUPR_2025_DSP37241	Tenaja 115/12 (D)	null	Capacity	Increase Circuit/Sub Capacity	Tenaja 115/12 (D) - Add 1 -12.0 kV circuit(s) for a total of 9. Substation - Upgrade Components		6/1/2029	0.00	0.00	0.00	0.00	
GNA_2025_452	DUPR_2025_D888	DUPR_2025_DSP37325	Tippecanoe 124/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Tippecanoe 124/16 (D) - Upgrading LV Switchrack conduc Substation - Upgrade Components; Primary Feeder - Capacitor		6/1/2029	0.00	0.00	0.00	0.00	
GNA_2025_256	DUPR_2025_D168	DDOR_2023_8566	Vail 66/16 (D)	null	Capacity	Increase Circuit/Sub Capacity	Vail 66/12 (D): Upgrade Substation Capacity from 114 MVA Substation - Upgrade Components; Primary Feeder - Capacitor		6/1/2027	6.70	12.30	0.00	3.00	
GNA_2025_38	DUPR_2025_S45	DDOR_2024_TSP STV36800	Valley 115kV North Switchrack	null	Reactive Power	Reactive Power Concern Mitigation	Valley 'ABCD' 500/115 (S) - Install 57.6 MVAR of capacitors Primary Feeder - Capacitor		6/1/2028	0.00	0.00	0.00	38.40	
GNA_2025_574	DUPR_2025_S46	DUPR_2025_8568	Valley 'EFG' 500/115 (S)	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Valley System Transformer Margin Protection - Install relays Substation - Upgrade Components		6/1/2025	169.00	227.30	265.50	287.80	
GNA_2025_574	DUPR_2025_S3	DDOR_2019_6092	Valley 'EFG' 500/115 (S)	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Alberhill 500/115 - Construct new 500/115 kV, 1120 MVA s Primary Feeder - Cable/Conductor		12/31/2029	169.00	227.30	265.50	287.80	
GNA_2025_39	DUPR_2025_S61	DUPR_2025_8825	Valley-Alessandro-Bunker 115 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Valley 'ABCD' 500/115 (S) - Reconnector the Valley and Kar Primary Feeder - Cable/Conductor		6/1/2029	0.00	0.00	1.98	0.00	
GNA_2025_39	DUPR_2025_S62	DUPR_2025_8825	Valley-Alessandro-Bunker 115 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Valley 'ABCD' 500/115 (S) - Reconnector the Valley and Kar Primary Feeder - Cable/Conductor		6/1/2029	0.00	0.00	0.00	0.00	
GNA_2025_40	DUPR_2025_S63	DUPR_2025_8825	Valley-Cajalco-Karma 115 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Valley 'ABCD' 500/115 (S) - Reconnector the Valley and Kar Primary Feeder - Cable/Conductor		6/1/2029	0.00	0.00	9.12	6.72	
GNA_2025_40	DUPR_2025_S64	DUPR_2025_8825	Valley-Cajalco-Karma 115 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Valley 'ABCD' 500/115 (S) - Reconnector the Valley and Kar Primary Feeder - Cable/Conductor		6/1/2029	0.00	0.00	7.90	5.68	
	DUPR_2025_D701	DUPR_2025_8762	Victor 115/33 (D)	null	Capacity	Increase Circuit/Sub Capacity	Victor 115/33 (D) - Replace (1) 50 MVA transformer with (1) Substation - Upgrade Components		6/1/2028	0.00	0.00	0.00	0.00	
GNA_2025_688	DUPR_2025_S119	DUPR_2025_TSP ABank36820	Vista 'A' 220/66 (S)	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Vista 'A' 220/66 kV: Install one (1) high capacity 220/66 kV Substation - Upgrade Components		6/1/2029	0.00	11.10	22.00	32.90	
GNA_2025_41	DUPR_2025_S77	DUPR_2025_8864	Vista-Bloomington-Colton-Fibre 66 kV	null	Capacity	Increase Circuit/Sub Capacity	Vista-Bloomington-Colton-Fibre 66 kV Subtransmission Lin Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	2.42	3.10	
GNA_2025_42	DUPR_2025_S78	DUPR_2025_8864	Vista-Bloomington-Colton-Fibre 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Vista-Bloomington-Colton-Fibre 66 kV Subtransmission Lin Primary Feeder - Cable/Conductor		6/1/2027	0.00	7.80	11.04	11.87	
GNA_2025_41	DUPR_2025_S131	DUPR_2025_TSP STL36819	Vista-Bloomington-Colton-Fibre 66 kV	null	Capacity	Increase Circuit/Sub Capacity	Vista-Bloomington-Colton-Fibre 66 kV Subtransmission Lin Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	0.00	0.00	
GNA_2025_42	DUPR_2025_S132	DUPR_2025_TSP STL36819	Vista-Bloomington-Colton-Fibre 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Vista-Bloomington-Colton-Fibre 66 kV Subtransmission Lin Primary Feeder - Cable/Conductor		6/1/2027	0.00	5.89	11.78	11.51	
GNA_2025_43	DUPR_2025_S33	DDOR_2024_8614	Vista-Bloomington-Glen Avon 66 kV	null	Capacity	Increase Circuit/Sub Capacity	Vista-Bloomington-Glen Avon 66 kV Subtransmission Line: Primary Feeder - Cable/Conductor		6/1/2027	4.70	18.20	23.20	24.80	
GNA_2025_44	DUPR_2025_S34	DDOR_2024_8614	Vista-Bloomington-Glen Avon 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Vista-Bloomington-Glen Avon 66 kV Subtransmission Line: Primary Feeder - Cable/Conductor		6/1/2027	10.90	39.20	46.70	50.60	
GNA_2025_45	DUPR_2025_S67	DUPR_2025_8858	Vista-Calectric 115 kV	null	Capacity	Increase Circuit/Sub Capacity	Vista-Calectric 115 kV Subtransmission Line: Reconnector Primary Feeder - Cable/Conductor; Substator 6/1/2027		6/1/2027	26.25	31.85	26.25	27.30	
GNA_2025_46	DUPR_2025_S68	DUPR_2025_8858	Vista-Calectric 115 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Vista-Calectric 115 kV Subtransmission Line: Reconnector Primary Feeder - Cable/Conductor; Substator 6/1/2027		6/1/2027	1.90	12.09	2.37	7.58	
GNA_2025_47	DUPR_2025_S57	DUPR_2025_8765	Walnut-Cortez-Merced #1	null	Capacity	Increase Circuit/Sub Capacity	Walnut 220/66 kV: Open shields on Walnut-Cortez-Merced Primary Feeder - Cable/Conductor		6/1/2025	20.30	21.40	22.70	19.10	
GNA_2025_48	DUPR_2025_S58	DUPR_2025_8765	Walnut-Cortez-Merced #2	null	Capacity	Increase Circuit/Sub Capacity	Walnut 220/66 kV: Open shields on Walnut-Cortez-Merced Primary Feeder - Cable/Conductor		6/1/2025	20.30	21.40	22.70	19.10	
GNA_2025_49	DUPR_2025_S83	DUPR_2025_8875	Walnut-Nogales-Railroad No. 1 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability Mitigation	Walnut-Nogales-Railroad 66 kV: Rebuild 2.16 miles of Walr Primary Feeder - Cable/Conductor		6/1/2027	4.40	8.10	7.00	15.60	
GNA_2025_50	DUPR_2025_S84	DUPR_2025_8875	Walnut-Nogales-Railroad No. 2 66 kV	null	Reliability, Capacity	Increase Circuit/Sub Capacity, Reliability								

U)	Deficiency %						Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
	2029 ^a	Units	2025 ^a	2026 ^a	2027 ^a	2028 ^a							
110.10	MW	17.20%	24.00%	31.40%	36.10%	36.70%	156623	25399	111	875	1426		New
5.70	MVAR	0.00%	0.00%	0.00%	0.00%	32.64%	156623	25399	111	875	1426		Existing
13.18	MW	0.25%	14.83%	11.50%	18.72%	18.30%	16879	2762	9	1	119		New
13.58	MW	0.00%	5.80%	14.83%	11.64%	18.86%	16879	2762	9	1	119		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	22497	3089	1	1	462		Existing
1.04	MW	0.00%	0.00%	0.00%	0.00%	0.52%	22497	3089	1	1	462		New
1.04	MW	0.00%	0.00%	0.00%	0.00%	0.52%	22497	3089	1	1	462		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	27517	3723	12	5	245		Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	39287	4945	14	6	737		Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	31454	3021	2	5	644		Existing
12.38	MW	0.00%	4.90%	9.10%	9.50%	9.90%	54317	6082	3	6	1082		Existing
20.33	MW	1.00%	7.00%	11.30%	11.70%	12.10%	54317	6082	3	6	1082		Existing
4.21	MW	0.00%	0.87%	2.40%	5.63%	7.16%	16468	1408	9	125	126		New
1.20	MW	0.00%	0.00%	0.00%	0.00%	0.97%	34017	4509	29	15	341		New
0.88	MW	0.00%	0.00%	0.00%	0.00%	0.61%	10734	2575	16	3	175	CAISO: N/A CPUC: SCE submitted an Advice Letter in 2025. SCE: Licensing activities authorized internally in 2015.	Existing
1.20	MW	0.00%	0.00%	0.00%	0.00%	0.97%	34017	4509	29	15	341		Existing
1.90	MW	0.00%	0.00%	1.79%	4.29%	2.26%	31348	5516	26	23	373		Existing
11.90	MW	1.47%	6.03%	9.74%	12.41%	10.26%	31348	5516	26	23	373		Existing
12.41	MW	8.89%	11.82%	12.30%	13.06%	13.13%	32440	1954	20	28	650		Existing
12.41	MW	8.89%	11.82%	12.30%	13.06%	13.13%	32440	1954	20	28	650		New
6.17	MW	10.24%	9.71%	9.90%	10.19%	10.61%	12537	1539	14	6	103		Existing
8.65	MW	4.68%	9.52%	13.40%	17.37%	6.70%	17496	2199	1	39	144		Existing
0.50	MW	8.98%	7.49%	7.49%	7.49%	7.49%	2316	128	0	0	19		Existing
2.91	MW	1.69%	6.29%	8.76%	5.02%	5.02%	11123	2074	17	8	116		New
30.77	MW	0.00%	9.40%	26.76%	42.97%	59.37%	7838	2093	43	11	171		Existing
2.20	MW	0.39%	2.96%	2.83%	2.83%	2.83%	9962	1632	24	6	108		New
22.53	MW	2.33%	5.43%	9.34%	12.64%	16.45%	30356	4859	32	14	338		New
33.50	MW	0.00%	11.28%	31.08%	23.59%	30.99%	13733	596	1	19	76		New
27.08	MW	0.00%	0.00%	32.68%	39.72%	39.86%	12143	1595	15	4	199		Existing
0.27	MW	4.67%	4.67%	0.34%	0.45%	1.52%	6679	251	2	0	63		Existing
0.10	MW	3.38%	2.81%	0.00%	0.00%	0.56%	6679	251	2	0	63		Existing
11.00	MW	0.00%	0.00%	0.00%	0.00%	15.17%	9266	692	0	6	34		New
0.10	MW	0.00%	0.00%	0.00%	0.00%	1.49%	1915	117	0	0	13		New
6.10	MW	5.88%	10.79%	0.00%	2.63%	5.35%	28456	6576	110	6	342		Existing
59.30	MVAR	0.00%	0.00%	0.00%	266.67%	411.81%	17786	1001	3	11	169		Existing
302.70	MW	18.86%	25.37%	29.63%	32.12%	33.78%	188961	20141	53	311	1615		New
302.70	MW	18.86%	25.37%	29.63%	32.12%	33.78%	188961	20141	53	311	1615	CAISO: Approval 2009 SCE: Filed third amended PEA June 2023 CPUC: Addendum to FEIR issued June 2024, estimated CPUC approval 2025/ 2026	Existing
9.39	MW	0.00%	0.00%	0.80%	0.00%	3.80%	56145	4363	10	22	692		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	56145	4363	10	22	692		New
16.56	MW	0.00%	0.00%	3.80%	2.80%	6.90%	30657	1681	19	44	258		New
13.83	MW	0.00%	0.00%	3.20%	2.30%	5.60%	30657	1681	19	44	258		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	20	17	2	1	4		New
38.20	MW	0.00%	3.30%	6.55%	9.79%	11.37%	72298	7430	24	30	782		New
3.84	MW	0.00%	0.00%	3.90%	5.00%	6.20%	55758	6100	24	24	610		New
14.86	MW	0.00%	9.40%	13.30%	14.30%	17.90%	55758	6100	24	24	610		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%	55758	6100	24	24	610		New
16.85	MW	0.00%	4.30%	8.60%	8.40%	12.30%	55758	6100	24	24	610		New
26.10	MW	10.22%	39.57%	50.43%	53.91%	56.74%	60750	5656	16	14	616		Existing
55.00	MW	17.58%	63.23%	75.32%	81.61%	88.71%	60750	5656	16	14	616		Existing
25.20	MW	15.00%	18.20%	15.00%	15.60%	14.40%	10	68	6	0	4		New
2.13	MW	0.80%	5.10%	1.00%	3.20%	0.90%	10	68	6	0	4		New
19.60	MW	35.61%	37.54%	39.82%	33.51%	34.39%	54909	6052	54	21	498		New
19.60	MW	35.61%	37.54%	39.82%	33.51%	34.39%	54909	6052	54	21	498		New
16.20	MW	5.30%	9.76%	8.43%	18.80%	19.52%	35676	4469	28	14	313		New
16.80	MW	5.90%	10.48%	9.04%	19.64%	20.24%	35676	4469	28	14	313		New
5.98	MW	5.17%	8.15%	9.34%	10.42%	10.93%	10476	1630	9	1	186		Existing
0.10		117.12%	118.96%	121.41%	125.71%	131.23%	476	5	1	0	0		Existing
0.00	MW						1524	32	0	0	3		Existing
13.49	MW						703	166	3	1	18		Existing
13.49	MW						703	166	3	1	18		New
1.28	MW						1101	306	7	0	47		New
1.28	MW						1101	306	7	0	47		New
0.43	MW	16.21%	10.80%	12.71%	15.25%	18.12%	1747	131	0	2	2		Existing
8.14	MW						4	4	0	1	4		New
15.80	MW	79.72%	86.71%	96.50%	109.79%	110.49%	1581	412	1	1	17		New
0.00	MW						966	636	6	1	15		New
1.15							991	215	0	0	9		Existing
0.22	MW						1123	175	1	1	34		New
0.35	MW						3302	253	0	0	25		Existing
0.35	MW						3302	253	0	0	25		New
0.40	MW	34.78%	34.78%	17.39%	17.39%	17.39%	1175	54	1	0	10		Existing
0.76	MW						3496	257	0	2	57		Existing
0.76	MW						3496	257	0	2	57		Existing
0.15	MW						3496	257	0	2	57		New

										Deficiency (MW, MVAR or Vp)			
GNA ID	DUPR ID	DUPR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment to Be Installed	Operating Date	2025 ^A	2026 ^A	2027 ^A	2028 ^A
GNA_2025_494	DUPR_2025_D850	DUPR_2025_8935	Las Lomas 66/12 (D)	Oslo	Capacity	Increase Circuit/Sub Capacity	Las Lomas 66/12 kV (D) - Install one (1) DSP 12 kV Circuit (Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	0.00	0.00
GNA_2025_127	DUPR_2025_D479	DUPR_2025_634076	Ontario 12/4.16 (D)	Ostran	Capacity	Increase Circuit/Sub Capacity	Portmac cutover of Ostran 4kV % Ontario to Campus 12kV k Primary Feeder - Cable/Conductor		6/1/2026	0.00	0.00	0.02	0.05
GNA_2025_438	DUPR_2025_D449	DUPR_2025_627069	Rio Hondo 66/12 (D)	Ottowa	Capacity (UCT)	Underground Cable Temperature Mitigation	Rio Hondo 66/12 (D) - Recable 1000 JCN Al to 1000 JCN Cl Primary Feeder - Cable/Conductor		6/1/2026	0.48	0.41	0.46	0.50
	DUPR_2025_D580	DUPR_2025_727141	Rio Hondo 66/12 (D)	Ottawa	Capacity	Increase Circuit/Sub Capacity	Rio Hondo 66/12 (D) Install New 12 kV circuit to offload Rio Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	0.00	0.00
	DUPR_2025_D791	DUPR_2025_8829	Rio Hondo 66/12 (D)	Ottawa	Capacity	Increase Circuit/Sub Capacity	Rio Hondo 66/12 (D) - Install (1) New 12kV DSP Circuit #12 Substation - Upgrade Components; Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	0.00	0.00
GNA_2025_236	DUPR_2025_D339	DDOR_2024_8508	Cal City B' 33/12 (D)	Overall	Capacity	Increase Circuit/Sub Capacity	Cal City 115/112 (D) & 115/33 kV (D) - Cancelling PIN #8508 Substation - Upgrade Components; Substation 6/30/2028		6/1/2027	0.00	0.00	0.00	4.40
GNA_2025_151	DUPR_2025_D857	DUPR_2025_DSP31252	El Casco 115/12 (D)	Ozark	Capacity	Increase Circuit/Sub Capacity	Maraschino 115/12 (D) - Upgrade Substation Capacity from Substation - Upgrade Components		6/1/2029	0.00	1.04	0.00	0.26
GNA_2025_339	DUPR_2025_D215	DDOR_2024_534037	Jefferson 66/12 (D)	Pacific	Capacity (UCT)	Underground Cable Temperature Mitigation	Jefferson 66/12 (D) - Duct Bank Temperature Mitigation Primary Feeder - Cable/Conductor		6/1/2025	0.00	0.39	0.39	0.37
GNA_2025_177	DUPR_2025_D269	DDOR_2024_629041	Vera 66/12 (D)	Packard	Capacity (UCT)	Underground Cable Temperature Mitigation	Double Run Austin 12kV and Rambler 12 kV, and Recable t Primary Feeder - Cable/Conductor		6/1/2026	0.02	0.20	0.24	0.04
GNA_2025_325	DUPR_2025_D121	DDOR_2023_534554	Chase 66/12 (D)	Palace	Capacity (UCT)	Increase Circuit/Sub Capacity	Chase 66/12 - New Circuit Primary Feeder - Cable/Conductor		6/1/2026	3.59	4.04	3.98	3.93
GNA_2025_325	DUPR_2025_D151	DDOR_2023_8526	Chase 66/12 (D)	Palace	Capacity (UCT)	Increase Circuit/Sub Capacity	Chase 66/12 - Add (1) new 12 kV circuit for a total of 16 Substation - Upgrade Components		6/1/2025	4.17	4.50	4.39	4.26
GNA_2025_249	DUPR_2025_D232	DDOR_2024_544020	Moneta 16/4.16 (D)	Palm	Capacity	Increase Circuit/Sub Capacity	Recable two sections of 350JCN to 500EPR in 2025 Primary Feeder - Cable/Conductor		6/1/2025	0.24	0.24	0.24	0.27
GNA_2025_391	DUPR_2025_D577	DUPR_2025_726122	Live Oak 66/12 (D)	Palmer	Capacity (UCT)	Underground Cable Temperature Mitigation	2025 IGPE Forbes 12kV % Live Oak Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	0.26	0.35
GNA_2025_79	DUPR_2025_D250	DDOR_2024_548041	Ely 66/12 (D)	Panama	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU PIF to install new ductbank system to mitigate du Primary Feeder - Cable/Conductor		6/1/2025	0.91	0.91	0.93	1.09
GNA_2025_87	DUPR_2025_D136	DDOR_2023_547014	Downey 12/4.16 (D)	Pangborn	Capacity	Increase Circuit/Sub Capacity	Downey 12/4.16 - Pangborn 4kV DSP Partial Cutover to Clif Primary Feeder - Cable/Conductor		6/1/2025	0.10	0.05	0.05	0.05
GNA_2025_493	DUPR_2025_D89	DDOR_2022_543018	Irvine 66/12 (D)	Paragon	Capacity (UCT)	Underground Cable Temperature Mitigation	Irvine 66/12kV - Circuit #14 - New DSP Circuit to mitigate PI Primary Feeder - Cable/Conductor		6/1/2025	1.28	1.43	0.67	0.89
GNA_2025_493	DUPR_2025_D106	DDOR_2022_8511	Irvine 66/12 (D)	Paragon	Capacity (UCT)	Underground Cable Temperature Mitigation	Irvine 66/12 (D) - Install one (1) - 12 kV DSP Circuit for a tot; Primary Feeder - Cable/Conductor		5/1/2025	1.28	1.43	0.67	0.89
GNA_2025_493	DUPR_2025_D311	DDOR_2024_643446	Irvine 66/12 (D)	Paragon	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP PIF to alleviate DB heating without civil. Part of OC DCI Primary Feeder - Cable/Conductor		6/1/2026	0.52	0.65	0.00	0.00
GNA_2025_172	DUPR_2025_D182	DDOR_2024_529303	Talbert 66/12 (D)	Parrot	Capacity (UCT)	Underground Cable Temperature Mitigation	Parrot DCU AI to CU to mitigate dB violations on Parrot from Primary Feeder - Cable/Conductor		6/2/2025	0.78	1.02	0.93	0.83
GNA_2025_630	DUPR_2025_D585	DUPR_2025_729074	Washington 66/12 (D)	Pass	Capacity (UCT)	Underground Cable Temperature Mitigation	Addition of (1) new 12kV Primary Feeder - Cable/Conductor		6/1/2027	1.54	2.00	2.43	2.39
GNA_2025_630	DUPR_2025_D796	DUPR_2025_8833	Washington 66/12 (D)	Pass	Capacity (UCT)	Underground Cable Temperature Mitigation	Washington 66/12 (D) - Addition of (1) new 12kV Circuit Substation - Upgrade Components		6/1/2027	1.54	2.00	2.43	2.39
GNA_2025_275	DUPR_2025_D203	DDOR_2024_532029	Bullis 66/4.16 (D)	Pattie	Capacity	Increase Circuit/Sub Capacity	Partial cutover to Sanborn 16 kV % Fernwood Substation Primary Feeder - Cable/Conductor		6/1/2025	0.40	0.40	0.40	0.50
	DUPR_2025_D181	DDOR_2024_527047	Bradbury 66/16 (D)	Payne	Capacity (UCT)	Underground Cable Temperature Mitigation	Bradbury 66/16 (D) - Reroute Bateman and Hurstview 16 kV Primary Feeder - Cable/Conductor		12/1/2025	0.00	0.00	0.00	0.00
	DUPR_2025_D845	DUPR_2025_8929	Bradbury 66/16 (D)	Payne	Capacity (UCT)	Underground Cable Temperature Mitigation	Bradbury 66/16 (D) - Install a new blister with approximate; Substation - Upgrade Components		12/1/2025	0.00	0.00	0.00	0.00
GNA_2025_439	DUPR_2025_D450	DUPR_2025_627069	Rio Hondo 66/12 (D)	Pecos	Capacity (UCT)	Underground Cable Temperature Mitigation	Rio Hondo 66/12 (D) - Recable 1000 JCN Al to 1000 JCN Cl Primary Feeder - Cable/Conductor		6/1/2026	1.61	1.63	1.70	1.74
GNA_2025_439	DUPR_2025_D581	DUPR_2025_727141	Rio Hondo 66/12 (D)	Pecos	Capacity (UCT)	Increase Circuit/Sub Capacity	Rio Hondo 66/12 (D) Install New 12 kV circuit to offload Rio Primary Feeder - Cable/Conductor		6/1/2027	0.83	0.85	0.91	0.96
GNA_2025_439	DUPR_2025_D792	DUPR_2025_8829	Rio Hondo 66/12 (D)	Pecos	Capacity (UCT)	Increase Circuit/Sub Capacity	Rio Hondo 66/12 (D) - Install (1) New 12kV DSP Circuit #12 Substation - Upgrade Components; Primary Feeder 6/1/2027		6/1/2027	0.83	0.85	0.91	0.96
GNA_2025_592	DUPR_2025_D644	DUPR_2025_773068	Roadway 115/12 (D)	Pegaso	Capacity (UCT)	Increase Circuit/Sub Capacity	New DSP Circuit - Roadway 115/12 (D) (#16) - New 12kV CI Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	5.57	1.46
GNA_2025_592	DUPR_2025_D726	DUPR_2025_8795	Roadway 115/12 (D)	Pegaso	Capacity (UCT)	Increase Circuit/Sub Capacity	Roadway 115/12 kV (D) - Install (1) new DSP 12 kV Circuit (Substation - Upgrade Components; Primary Feeder 6/1/2027		6/1/2027	0.00	0.00	5.57	1.46
GNA_2025_591	DUPR_2025_D748	DUPR_2025_8803	Roadway 115/12 (D)	Pegaso	Capacity	Increase Circuit/Sub Capacity	Phelan 115/33 kV (D) - New 33kV DSP circuits for a total of Substation - Upgrade Components; Primary Feeder 6/1/2027		6/1/2027	0.00	0.00	1.98	6.07
GNA_2025_173	DUPR_2025_D183	DDOR_2024_529303	Talbert 66/12 (D)	Pelican	Capacity (UCT)	Underground Cable Temperature Mitigation	Parrot DCU AI to CU to mitigate dB violations on Parrot from Primary Feeder - Cable/Conductor		6/2/2025	0.00	0.28	0.15	0.09
GNA_2025_274	DUPR_2025_DV21	DDOR_2024 DVAR Plan_26	Talbert 66/12 (D)	Pelican	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted) Primary Feeder - Capacitor		8/31/2025	0.91	0.88	0.85	0.82
	DUPR_2025_D424	DDOR_2024_DSP7321	Santiago 66/12 (D)	Pence	Capacity (UCT)	Underground Cable Temperature Mitigation	Estrella 66/12 kV (D) - Install (1) New 12 kV Circuit (Substation - Upgrade Components; Primary Feeder 6/1/2028		6/1/2028	0.00	0.00	0.00	0.00
GNA_2025_481	DUPR_2025_D63	DDOR_2022_333226	Crown 66/12 (D)	Peninsula	Capacity (UCT)	Underground Cable Temperature Mitigation	Crown 66/12kV - Gunther 12kV - Re-route Gunther 12kV th Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	0.00	0.00
GNA_2025_619	DUPR_2025_D258	DDOR_2024_573023	Aqueduct 115/12 (D)	Penstock	Capacity (UCT)	Underground Cable Temperature Mitigation	Re-cable 4 - 12 kV circuits: Turbine, Sliuce, Penstock, Neec Primary Feeder - Cable/Conductor		6/1/2026	1.59	1.61	1.65	1.70
GNA_2025_579	DUPR_2025_D772	DUPR_2025_8818	Modena 66/12 (D)	Persia	Capacity (UCT)	Underground Cable Temperature Mitigation	Modena 66/12 (D) - Adding one (1) new 12 kV line, extend 1 Substation - Upgrade Components; Primary Feeder 6/1/2027		6/1/2027	1.37	1.41	1.50	1.61
GNA_2025_379	DUPR_2025_D313	DDOR_2024_648049	Telegraph 66/12 (D)	Pete	Capacity (UCT)	Increase Circuit/Sub Capacity	Detailed Scope: DCU to resolve circuit PLL Limitations due Primary Feeder - Cable/Conductor		6/1/2026	1.87	1.87	1.87	1.89
GNA_2025_593	DUPR_2025_D645	DUPR_2025_773068	Roadway 115/12 (D)	Peterbilt	Capacity (UCT)	Increase Circuit/Sub Capacity	New DSP Circuit - Roadway 115/12 (D) (#16) - New 12kV CI Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	1.09	0.85
GNA_2025_593	DUPR_2025_D649	DUPR_2025_773078	Roadway 115/12 (D)	Peterbilt	Capacity (UCT)	Underground Cable Temperature Mitigation	Install three (3) vaults and recable three (3) 12kV circuits (F Primary Feeder - Cable/Conductor		1/1/2027	3.22	3.02	2.83	2.61
GNA_2025_593	DUPR_2025_D727	DUPR_2025_8795	Roadway 115/12 (D)	Peterbilt	Capacity (UCT)	Increase Circuit/Sub Capacity	Roadway 115/12 kV (D) - Install (1) new DSP 12 kV Circuit (Substation - Upgrade Components; Primary Feeder 6/1/2027		6/1/2027	0.00	0.00	1.09	0.85
GNA_2025_125	DUPR_2025_D140	DDOR_2023_634064	Kimball 66/12 (D)	Phantom	Capacity	Increase Circuit/Sub Capacity	Chino 66/12 kV - Remington 12 kV - New DSP Circuit Primary Feeder - Cable/Conductor		6/1/2026	2.22	2.24	2.28	2.30
GNA_2025_125	DUPR_2025_D356	DDOR_2024_8583	Kimball 66/12 (D)	Phantom	Capacity	Increase Circuit/Sub Capacity	Chino 66/12 kV (D) - Install one (1) New DSP 12 kV Circuit (Substation - Upgrade Components; Primary Feeder 6/1/2026		6/1/2026	2.22	2.24	2.28	2.30
GNA_2025_568	DUPR_2025_D651	DUPR_2025_777207	Sun City 115/12 (D)	Photon	Capacity	Increase Circuit/Sub Capacity	Sun City 115/12 (D) - New circuit #11 named Fusion 12 kV t Primary Feeder - Cable/Conductor		6/1/2027	0.78	5.20	11.43	7.20
GNA_2025_569	DUPR_2025_D743	DUPR_2025_8801	Sun City 115/12 (D)	Photon	Capacity (UCT)	Increase Circuit/Sub Capacity	Sun City 115/12 (D) - Add 2 - 12.0 kV circuit(s) for a total of Primary Feeder - Cable/Conductor		6/1/2027	0.78	5.20	11.43	7.20
GNA_2025_370	DUPR_2025_D554	DUPR_2025_679045	Santa Rosa 115/12 (D)	Physician	Capacity (UCT)	Underground Cable Temperature Mitigation	Add new duct bank / blister to address duct bank violation t Primary Feeder - Cable/Conductor		6/1/2026	3.59	3.74	3.33	3.39
	DUPR_2025_D203	DDOR_2019_977271	Newcomb 115/12 (D)	Piedra	Capacity (UCT)	Underground Cable Temperature Mitigation	Newcomb 115/12 - Oakdale 12kV - TPS PIF: OCP, WCR, G Primary Feeder - Cable/Conductor		1/1/2026	0.00	0.00	0.00	0.00
GNA_2025_267	DUPR_2025_D208	DDOR_2024_532032	Brewster 16/4.16 (D)	Pinehurst	Capacity	Increase Circuit/Sub Capacity	Brewster 16.16kV - Pinehurst 4kV: DCU - Re-cable cable Primary Feeder - Cable/Conductor		6/1/2025	1.06	1.01	0.34	0.36
GNA_2025_228	DUPR_2025_D265	DDOR_2024_629037	Chestnut 66/12 (D)	Pinon	Capacity (UCT)	Underground Cable Temperature Mitigation	Upgrade substation getaways to increase getaway capacity Primary Feeder - Cable/Conductor		6/1/2026	0.00	0.00	0.85	0.83
GNA_2025_141	DUPR_2025_D55	DDOR_2021_584001	Hi Desert 115/33 (D)	Pinto	Voltage	Voltage Violation Mitigation	Hi Desert 115/33 (D) - Install 2-200A 33kV voltage regulator Primary Feeder - Cable/Conductor		7/31/2022	0.93	0.93	0.93	0.93
GNA_2025_145	DUPR_2025_D24	DDOR_2019_984254	Yucca 115/12 (D)	Pioneertown	Voltage	Voltage Violation Mitigation	Yucca 115/12 - Pioneertown 12kV - TPS with OCP, WCR, G Primary Feeder - Cable/Conductor		12/31/2022	0.91	0.91	0.91	0.92
GNA_2025_229	DUPR_2025_D266	DDOR_2024_629037	Chestnut 66/12 (D)	Pistachio	Capacity (UCT)	Increase Circuit/Sub Capacity	Upgrade substation getaways to increase getaway capacity Primary Feeder - Cable/Conductor		6/1/2026	1.30	2.93	0.15	0.91
GNA_2025_361	DUPR_2025_D326	DDOR_2024_679039	Concho 115/12 (D)	Pistola	Capacity (UCT)	Increase Circuit/Sub Capacity	Concho 115/12 (D) - New DSP Circuit Concho No.11 Primary Feeder - Cable/Conductor		6/1/2026	0.00	0.00	2.59	5.41
GNA_2025_361	DUPR_2025_D329	DDOR_2024_679040	Concho 115/12 (D)	Pistola	Capacity (UCT)	Increase Circuit/Sub Capacity	Concho 115/12 (D) - New DSP Circuit Concho No.10 Primary Feeder - Cable/Conductor		6/1/2026	0.13	0.00	3.91	6.72
GNA_2025_361	DUPR_2025_D371	DDOR_2024_8683	Concho 115/12 (D)	Pistola	Capacity (UCT)	Increase Circuit/Sub Capacity	Concho 115/12 kV (D) - Increase Substation Capacity from Substation - Upgrade Components; Primary Feeder 6/1/2026		6/1/2026	0.26	5.20	9.24	12.07
GNA_2025_361	DUPR_2025_D722	DUPR_2025_8794	Concho 115/12 (D)	Pistola	Capacity (UCT)	Underground Cable Temperature Mitigation	Concho 115/12 kV (D) - Install one (1) new 12 kV circuit for Primary Feeder - Cable/Conductor		6/1/2027	0.00	0.00	0.00	1.04
GNA_2025_443	DUPR_2025_D890	DUPR_2025_DSP37330	Rio Hondo 66/16 (D)	Pit	Capacity	Increase Circuit/Sub Capacity	Rio Hondo 66/16 kV (D) - Install (1) new 16kV circuit, new 6 Substation - Upgrade Components; Primary Feeder 6/1/2028		6/1/2028	0.00	0.00	0.00	5.65
	DUPR_2025_D169	DDOR_2024_459034	Saugus 66/16 (D)	Placerita	Capacity (UCT)	Underground Cable Temperature Mitigation	Saugus 66/16 kV - Installing new ducts and structures to all Primary Feeder - Cable/Conductor		6/1/2025	0.00	0.00	0.00	0.00
GNA_2025_242	DUPR_2025_D353	DDOR_2024_8577	Tortilla 115/33 (D)	Poco	Capacity	Increase Circuit/Sub Capacity	Tortilla 115/33 kV (D) - Install (3) new 33 kV line positions, Substation - Upgrade Components; Primary Feeder 12/31/2027		12/31/2027	0.00	1.98	19.82	62.93
GNA_2025_659	DUPR_2025_D356	DUPR_2025 DVAR Plan_26	Sixteenth Street 33/12 (D)	Potato	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead) Primary Feeder - Capacitor		8/31/2026	0.01	0.02	0.50	0.50
GNA_2025_596	DUPR_2025_DV50	DDOR_2024_8573	Savage 115/12 (D)	Prayer	Capacity (UCT)	Underground Cable Temperature Mitigation	Savage 115/12 kV (D) - Install New Blister East of Cable Tre Substation - Upgrade Components		12/31/2025	0.57	0.54	0.80	0.78
GNA_2025_680	DUPR_2025_D39	DDOR_2021_131048	Colton 66/12 (D)	Preston	Voltage	Voltage Violation Mitigation	Install voltage regulator to help mitigate low circuit voltage Primary Feeder - Cable/Conductor		6/1/2023	0.94	0.93	0.93	0.93
GNA_2025_679	DUPR_2025_D119	DDOR_2023_531046	Colton 66/12 (D)	Preston	Capacity	Increase Circuit/Sub Capacity	Colton 66/12 - Mansa 12 kV - Extend Circuit Approximately Primary Feeder - Cable/Conductor		6/1/2026	2.91	3.52	2.65	2.78
GNA_2025_429	DUPR_2025_D855	DUPR_2025_8945	Bradbury 66/16 (D)	Primrose	Capacity (UCT)	Underground Cable Temperature Mitigation	Bradbury 66/16 (D) - Install new 6-5" conduit & 2 vaults to Substation - Upgrade Components		6/1/2027	0.38	0.41	0.24	0.24
GNA_2025_194	DUPR_2025_D736	DUPR_2025_8799	Etiwanda 66/12 (D)	Pryor	Capacity (UCT)	Increase Circuit/Sub Capacity	Etiwanda 66/12 (D) - Install (2) new 12kV circuits for a total Primary Feeder - Cable/Conductor		6/1/2028	2.46	3.30	4.30	5.76
GNA_2025_616	DUPR_2025_D678	DUPR_2025_829095	Modena 66/12 (D)	Iran	Capacity	Increase Circuit/Sub Capacity	New circuit to offload adjacent Modena sub circuits Primary Feeder - Cable/Conductor		6/1/2028	0.20	0.26	0.35	0.43
GNA_2025_620	DUPR_2025_D773	DUPR_2025_8818	Modena 66/12 (D)	Qatar	Capacity	Increase Circuit/Sub Capacity	Modena 66/12 (D) - Adding one (1) new 12 kV line, extend 1 Substation - Upgrade Components; Primary Feeder 6/1/2027		6/1/2027	0.00	0.00	0.00	0.00</

U)	2029 ^a	Units	Deficiency %					Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
			2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b							
0.15	MW							3496	257	0	2	57		New
0.11	MW							732	123	1	0	8		New
0.54	MW							1876	201	0	0	33		New
0.00	MW							1876	201	0	0	33		New
0.00	MW							1876	201	0	0	33		New
4.40	MW							1030	108	1	3	2		Existing
8.63	MW							0	3	0	0	0		New
0.37	MW							887	120	1	0	23		Existing
0.11	MW	0.22%	2.22%	2.66%	0.43%	1.19%		2026	334	0	1	15		Existing
3.87	MW	35.30%	39.72%	39.13%	38.64%	38.05%		506	167	2	0	11		Existing
4.15	MW	41.87%	45.32%	44.21%	42.77%	41.67%		506	167	2	0	11		Existing
0.33	MW	10.04%	10.04%	10.04%	11.30%	13.81%		1314	292	1	0	12		Existing
0.46	MW	0.00%	0.00%	2.53%	3.42%	4.50%		1177	30	0	0	13		New
1.15	MW	9.78%	9.75%	9.95%	11.80%	12.45%		2239	157	0	0	16		Existing
0.10	MW	4.35%	2.17%	2.17%	2.17%	4.35%		684	28	1	0	2		Existing
1.07	MW	12.43%	13.94%	6.67%	8.92%	10.72%		4040	353	0	0	64		Existing
1.07	MW	12.43%	13.94%	6.67%	8.92%	10.72%		4040	353	0	0	64		Existing
0.15	MW	4.70%	5.89%	0.00%	0.00%	1.38%		4040	353	0	0	64		Existing
0.72	MW	7.57%	10.20%	9.28%	8.27%	7.14%		268	567	12	2	9		Existing
2.43	MW							2140	274	0	0	22		New
2.43	MW							2140	274	0	0	22		New
0.00	MW	20.00%	20.00%	20.00%	25.00%	0.00%		932	80	1	0	5		Existing
0.00	MW							1896	316	1	1	19		Existing
0.00	MW							1896	316	1	1	19		New
1.83	MW							2127	197	0	0	19		New
1.04	MW							2127	197	0	0	19		New
1.04	MW							2127	197	0	0	19		New
1.46	MW							0	6	0	4	0		New
1.46	MW							0	6	0	4	0		New
7.00	MW							0	6	0	4	0		New
0.00	MW							0	100	5	1	2		Existing
0.79								0	100	5	1	2		Existing
0.00	MW							2751	92	0	0	6		Existing
0.02	MW							1456	200	1	1	18		Existing
1.74	MW							2063	92	3	9	9		Existing
1.76	MW	13.52%	13.92%	14.84%	15.96%	17.48%		1785	354	1	2	14		New
1.96	MW							2211	143	0	0	9		Existing
0.57	MW	0.00%	0.00%	9.49%	7.39%	4.94%		0	38	2	2	0		New
2.37	MW	40.25%	37.75%	35.38%	32.63%	29.63%		0	38	2	2	0		New
0.57	MW	0.00%	0.00%	9.49%	7.39%	4.94%		0	38	2	2	0		New
2.35	MW							1022	63	0	7	10		Existing
2.35	MW							1022	63	0	7	10		Existing
10.00	MW							1803	90	0	2	16		New
10.00	MW							1803	90	0	2	16		New
3.50	MW							0	0	0	0	1		New
0.00	MW							2070	109	1	1	19		Existing
0.40	MW	80.30%	76.52%	25.76%	27.27%	30.30%		1182	59	1	0	9		Existing
0.78	MW							1	349	4	0	12		Existing
0.93	Vpu							0	1	0	1	0		Existing
0.92	Vpu							1756	254	4	0	16		Existing
0.80	MW							1506	429	6	2	20		Existing
5.37	MW	0.00%	0.00%	22.56%	47.13%	46.78%		1259	234	0	2	16		Existing
6.72	MW	1.13%	0.00%	34.12%	58.64%	58.79%		1259	234	0	2	16		Existing
12.02	MW	2.29%	45.90%	81.77%	106.81%	106.37%		1259	234	0	2	16		Existing
1.02	MW	0.00%	0.00%	0.00%	9.77%	9.58%		1259	234	0	2	16		New
5.65	MW							0	4	0	0	13		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%		1240	115	1	0	13		Existing
64.13	MW							15	1	0	0	0		Existing
0.51								1801	135	1	0	36		Existing
0.76	MW	5.43%	5.14%	7.81%	7.60%	7.39%		1734	70	1	1	10		Existing
0.93	Vpu	93.58%	93.42%	93.00%	92.67%	92.50%		2947	153	0	2	9		Existing
2.89	MW	27.90%	33.75%	22.16%	23.24%	24.16%		2947	153	0	2	9		Existing
0.29	MW							2037	276	0	1	14		New
6.70	MW							2429	265	0	0	20		New
0.54	MW							1523	71	0	3	10		New
0.07	MW	0.00%	0.00%	0.00%	0.00%	0.59%		1942	92	0	2	34		New
0.04	MW							1373	64	0	0	4		Existing
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%		12	10	1	0	1		Existing
0.52	MW	4.71%	4.92%	4.91%	5.11%	5.32%		527	298	4	0	7		New
1.32								1665	120	1	0	25		Existing
0.63	MW							2881	450	3	2	26		Existing
0.50								1632	26	0	0	0		Existing
1.30	MW							249	59	0	0	3		New
1.30	MW							249	59	0	0	3		New
0.00	MW							0	20	0	0	4		New
0.11	MW	0.00%	0.00%	0.00%	0.18%	0.98%		2119	236	0	0	40		Existing
7.76	MW							79	361	0	2	22		Existing
7.76	MW							79	361	0	2	22		Existing
0.35	MW							79	361	0	2	22		New
1.17	MW							864	164	0	0	11		Existing

										Deficiency (MW, MVAR or Vp)			
GNA ID	DUPR ID	DUPR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment to Be Installed	Operating Date	2025 ^A	2026 ^A	2027 ^A	2028 ^A
GNA_2025_241	DUPR_2025_DV22	DDOR_2024 DVAR Plan_27	Inyokern 115/33 (D)	Rickover	Reactive Power	Project to Address Reactive Power Concern, New Ca	(2) New Capacitors On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	3.91	3.85	3.79	3.73
GNA_2025_72	DUPR_2025_D491	DUPR_2025_636037	Gorman 66/12 (D)	Ridge	Capacity	Increase Circuit/Sub Capacity	Gorman 66/12 kV - Kinsey 12 kV - Line extension to serve t	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	5.48	15.87
GNA_2025_72	DUPR_2025_D700	DUPR_2025_8756	Gorman 66/12 (D)	Ridge	Capacity	Increase Circuit/Sub Capacity	Gorman 66/12 kV (D) Full Rebuild using the compact subst	Primary Feeder - Cable/Conductor	6/1/2029	0.00	0.00	3.39	13.78
GNA_2025_516	DUPR_2025_DV29	DDOR_2024 DVAR Plan_33	Shandin 66/16 (D)	Riner	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2026	1.42	1.42	1.42	1.42
GNA_2025_409	DUPR_2025_D539	DUPR_2025_651673	Tulare 66/12 (D)	Rinker	Capacity (UCT)	Underground Cable Temperature Mitigation	Tulare 66/12 (D) - Rinker 12kV - Replace 1000 CLP Aluminu	Primary Feeder - Cable/Conductor	12/31/2026	0.07	0.00	0.00	0.00
GNA_2025_405	DUPR_2025_D442	DUPR_2025_551250	Riverway 66/12 (D)	Rio Grande	Capacity (UCT)	Underground Cable Temperature Mitigation	Chatham 66/12 (D) - Virgil 12kV - DSP - Summer Readiness	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.00
GNA_2025_405	DUPR_2025_D634	DUPR_2025_751241	Riverway 66/12 (D)	Rio Grande	Capacity (UCT)	Underground Cable Temperature Mitigation	Chatham 66/12 kV (D) - Install one (1) DSP12 kV circuit (f	Primary Feeder - Cable/Conductor	12/31/2026	0.67	0.70	0.87	1.04
GNA_2025_405	DUPR_2025_D809	DUPR_2025_8849	Riverway 66/12 (D)	Rio Grande	Capacity (UCT)	Underground Cable Temperature Mitigation	Chatham 66/12 kV (D) - Install one (1) DSP12 kV circuit (f	Primary Feeder - Cable/Conductor	6/1/2027	0.67	0.70	0.87	1.04
GNA_2025_260	DUPR_2025_D477	DUPR_2025_632072	Huntington Park 16/4.16 (D)	Rita	Capacity	Increase Circuit/Sub Capacity	Huntington Park 16/4.16: Rita 4kV Partial Cutover Partial C	Primary Feeder - Cable/Conductor	6/1/2026	0.40	0.20	0.20	0.20
GNA_2025_656	DUPR_2025_D193	DDOR_2024_531050	Shandin 115/12 (D)	Roi-Tan	Capacity	Increase Circuit/Sub Capacity	Extend Varsity 12kV to help offload Northpark 12kV and R	Primary Feeder - Cable/Conductor	6/1/2026	0.37	0.35	0.37	0.41
GNA_2025_458	DUPR_2025_D389	DDOR_2024_8715	Camarillo 66/16 (D)	Rosa	Capacity (UCT)	Underground Cable Temperature Mitigation	Camarillo 66/16 (D) - Install a blister to reroute Crosson 16	Primary Feeder - Cable/Conductor	6/1/2026	1.30	1.30	1.00	0.70
GNA_2025_458	DUPR_2025_D505	DUPR_2025_639032	Camarillo 66/16 (D)	Rosa	Capacity (UCT)	Underground Cable Temperature Mitigation	Camarillo 66/16 (D) - Multiple circuits Reroute and recabl	Primary Feeder - Cable/Conductor	6/1/2026	1.30	1.30	1.00	0.70
GNA_2025_418	DUPR_2025_D174	DDOR_2024_522060	Amador 66/16 (D)	Roseglen	Capacity	Increase Circuit/Sub Capacity	Amador 66/16 kV - Roseglen 16 kV - Recable Limiting Com	Primary Feeder - Cable/Conductor	9/30/2025	0.20	0.10	0.10	0.00
GNA_2025_418	DUPR_2025_D175	DDOR_2024_522061	Amador 66/16 (D)	Roseglen	Capacity	Increase Circuit/Sub Capacity	Amador 66/12 (D) - Velma Circuit - To increase PLL from 32	Primary Feeder - Cable/Conductor	6/1/2025	0.18	1.53	1.53	1.50
GNA_2025_81	DUPR_2025_D246	DDOR_2024_548039	Gilbert 66/12 (D)	Rough	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU PIF to recable to 1000CU to mitigate heating viol	Primary Feeder - Cable/Conductor	6/1/2025	1.43	1.41	1.43	1.46
GNA_2025_51	DUPR_2025_D234	DDOR_2024_546054	Stadium 66/12 (D)	Roxanne	Capacity (UCT)	Underground Cable Temperature Mitigation	Stadium 66/12: Duct Bank Project to Recable and Reroute i	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.20	0.20	0.00
GNA_2025_500	DUPR_2025_D229	DDOR_2024_543021	Santiago 66/12 (D)	Ruble	Capacity (UCT)	Underground Cable Temperature Mitigation	Reconductor Franc, Kuna, Schilling, Centavo cable to 1000	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.24
GNA_2025_500	DUPR_2025_D302	DDOR_2024_643445	Santiago 66/12 (D)	Ruble	Capacity (UCT)	Underground Cable Temperature Mitigation	Upgrade substation getaways to increase getaway capacity	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.00	0.24
GNA_2025_604	DUPR_2025_D646	DUPR_2025_773068	Victor 115/33 (D)	Russ Boyd	Capacity (UCT)	Increase Circuit/Sub Capacity	New DSP Circuit - Roadway 115/12 (D) (#16) - New 12kV CI	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.84	8.92	3.17
GNA_2025_604	DUPR_2025_D728	DUPR_2025_8795	Victor 115/33 (D)	Russ Boyd	Capacity (UCT)	Increase Circuit/Sub Capacity	Roadway 115/12 kV (D) - Install (1) new DSP 12 kV Circuit	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.84	8.92	3.17
GNA_2025_603	DUPR_2025_D149	DUPR_2025_8803	Victor 115/33 (D)	Russ Boyd	Capacity	Increase Circuit/Sub Capacity	Phelan 115/33 kV (D) - New 33kV DSP circuits for a total of	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.84	6.05	6.05
GNA_2025_387	DUPR_2025_D75	DDOR_2019_934335	Cucamonga 66/12 (D)	Rutherford	Capacity (UCT)	Underground Cable Temperature Mitigation	Cucamonga 66/12kV - Earnhardt 12kV: Install 1 new 4 v	Primary Feeder - Cable/Conductor	6/30/2025	1.78	1.78	1.78	1.67
GNA_2025_627	DUPR_2025_D429	DUPR_2025_529065	Villa Park 66/12 (D)	Rutledge	Capacity (UCT)	Underground Cable Temperature Mitigation	Distribution Circuit Upgrade	Primary Feeder - Cable/Conductor	6/1/2025	0.09	0.11	0.15	0.24
GNA_2025_388	DUPR_2025_D16	DDOR_2019_934335	Cucamonga 66/12 (D)	Ruttman	Capacity (UCT)	Increase Circuit/Sub Capacity	Cucamonga 66/12kV - Earnhardt 12kV: Install 1 new 4 v	Primary Feeder - Cable/Conductor	6/30/2025	0.78	0.67	0.54	0.43
GNA_2025_388	DUPR_2025_D160	DDOR_2023_8535	Cucamonga 66/12 (D)	Ruttman	Capacity (UCT)	Increase Circuit/Sub Capacity	Genamic 66/12 - Install one (1) new 12kV circuit	Primary Feeder - Cable/Conductor	6/1/2027	2.30	2.30	2.33	2.33
GNA_2025_388	DUPR_2025_D596	DUPR_2025_730099	Cucamonga 66/12 (D)	Ruttman	Capacity (UCT)	Increase Circuit/Sub Capacity	Genamic 66/12 - New circuit (Redeye 12kV) to offload EV c	Primary Feeder - Cable/Conductor	6/1/2027	2.30	2.30	2.33	2.33
GNA_2025_157	DUPR_2025_D628	DUPR_2025_744141	Lennox 66/16 (D)	Ryan	Capacity	Increase Circuit/Sub Capacity	Lennox 66/16 (D): Ryan 16kV DSP DCU Recable mainline t	Primary Feeder - Cable/Conductor	6/1/2027	1.30	1.50	0.70	1.00
GNA_2025_80	DUPR_2025_D251	DDOR_2024_548041	Ely 66/12 (D)	Rzyski	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU PIF to install new ductbank system to mitigate du	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.59
GNA_2025_189	DUPR_2025_D711	DUPR_2025_8780	Declez 66/12 (D)	Sanber	Capacity (UCT)	Increase Circuit/Sub Capacity	Etswana 66/33 (D): Adding 33 kV to Etswana Substation	Primary Feeder - Cable/Conductor	6/1/2029	5.11	5.15	5.54	5.65
GNA_2025_189	DUPR_2025_D886	DUPR_2025_DSP37295	Declez 66/12 (D)	Sanber	Capacity (UCT)	Increase Circuit/Sub Capacity	Declez 66/12 (D) - Install and equip (1) new 12kV circuit	Primary Feeder - Cable/Conductor	6/1/2029	5.11	5.20	5.54	5.65
GNA_2025_518	DUPR_2025_D399	DDOR_2024_DSP36558	Solemint 66/16 (D)	Sand Canyon	Capacity	Increase Circuit/Sub Capacity	Solemint 66/16 kV - DSP - Install one (1) 66/16 kV 28 MVA	Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.00	0.00
GNA_2025_300	DUPR_2025_D565	DUPR_2025_722032	Ramona 66/4.16 (D)	Sarah	Capacity	Increase Circuit/Sub Capacity	Ramona 16/4.16 kV - Sarah 4 kV - Partial 4 kV Cutover	Primary Feeder - Cable/Conductor	6/1/2027	2.90	2.90	2.90	3.00
GNA_2025_344	DUPR_2025_D212	DDOR_2024_534014	Milliken 66/12 (D)	Sauza	Capacity (UCT)	Underground Cable Temperature Mitigation	Milliken 66/12 - Sauza - Fix Duct Bank Violations at Mill	Primary Feeder - Cable/Conductor	6/1/2025	2.46	4.87	10.40	1.00
GNA_2025_257	DUPR_2025_D198	DDOR_2024_532022	Vail 66/16 (D)	Saybrook	Capacity	Increase Circuit/Sub Capacity	Vail 66/16 (D): Saybrook 16kV DSP DCU Recable 350 PILC	Primary Feeder - Cable/Conductor	6/1/2025	1.20	1.20	1.20	1.10
GNA_2025_501	DUPR_2025_D230	DDOR_2024_543021	Santiago 66/12 (D)	Schilling	Capacity (UCT)	Underground Cable Temperature Mitigation	Reconductor Franc, Kuna, Schilling, Centavo cable to 1000	Primary Feeder - Cable/Conductor	6/1/2025	0.74	0.74	0.70	1.22
GNA_2025_501	DUPR_2025_D303	DDOR_2024_643445	Santiago 66/12 (D)	Schilling	Capacity (UCT)	Underground Cable Temperature Mitigation	Upgrade substation getaways to increase getaway capacity	Primary Feeder - Cable/Conductor	6/1/2026	0.37	0.35	0.30	0.70
GNA_2025_559	DUPR_2025_DV23	DDOR_2024 DVAR Plan_28	Canyon Lake 33/12 (D)	Searay	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2025	0.48	0.48	0.48	0.49
GNA_2025_173	DUPR_2025_D760	DUPR_2025_8808	Triton 115/12 (D)	Seawolf	Capacity (UCT)	Increase Circuit/Sub Capacity	Stadium 66/12: Duct Bank Project to Recable and Reroute i	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.00
GNA_2025_595	DUPR_2025_D737	DUPR_2025_8799	Etswana 66/12 (D)	Sellers	Capacity (UCT)	Underground Cable Temperature Mitigation	Triton 115/12kV: Install one (1) 12kV distribution circuit	Primary Feeder - Cable/Conductor	6/1/2027	2.59	3.83	3.89	3.98
GNA_2025_608	DUPR_2025_DV42	DUPR_2025 DVAR Plan_13	Victorville 33/33 (D)	Seneca	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	1.85	1.81	1.94	1.90
GNA_2025_519	DUPR_2025_D525	DUPR_2025_651631	Bliss 66/12 (D)	Serenity	Capacity (UCT)	Increase Circuit/Sub Capacity	LG customer requires a cascaded load transfer in order to	Primary Feeder - Cable/Conductor	8/1/2026	0.00	1.09	0.93	0.87
GNA_2025_519	DUPR_2025_D526	DUPR_2025_651642	Bliss 66/12 (D)	Serenity	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU PIF to address duct bank heating violations caus	Primary Feeder - Cable/Conductor	9/1/2026	0.74	2.04	1.87	1.78
GNA_2025_530	DUPR_2025_D670	DUPR_2025_777217	Alessandro 115/12 (D)	Serpentine	Capacity (UCT)	Increase Circuit/Sub Capacity	Cajalco 115/12 New circuit out of Cajalco to offload Piniw	Primary Feeder - Cable/Conductor	12/31/2027	2.63	2.54	0.00	0.00
GNA_2025_530	DUPR_2025_D672	DUPR_2025_777218	Alessandro 115/12 (D)	Serpentine	Capacity (UCT)	Increase Circuit/Sub Capacity	New DSP circuit #11 (Bonham12kV) to offload Serpentine i	Primary Feeder - Cable/Conductor	6/1/2027	2.63	2.54	4.11	0.00
GNA_2025_530	DUPR_2025_D763	DUPR_2025_8809	Alessandro 115/12 (D)	Serpentine	Capacity (UCT)	Increase Circuit/Sub Capacity	Cajalco 115/12 (D) - Add 2 -12.0 kV circuit(s) for a total	Primary Feeder - Cable/Conductor	6/1/2027	2.63	2.54	4.11	4.89
GNA_2025_357	DUPR_2025_D409	DDOR_2024_DSP36696	Pedley 66/12 (D)	Sevaine	Capacity (UCT)	Increase Circuit/Sub Capacity	Bain 66/12 (D) - Add 2 -12.0 kV circuit(s) for a total of 12	Primary Feeder - Cable/Conductor	6/1/2028	3.35	3.24	3.15	3.13
GNA_2025_646	DUPR_2025_D499	DUPR_2025_639030	Saticoy 66/16 (D)	Sexton	Capacity (UCT)	Underground Cable Temperature Mitigation	Create new circuit getway paths for Highway, Vineyard 16	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.00	0.00
	DUPR_2025_D692	DUPR_2025_8711	Saticoy 66/16 (D)	Sexton	Capacity (UCT)	Underground Cable Temperature Mitigation	Saticoy 66/16 (D): Install new getaways to reroute the Malo	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.00	0.00
GNA_2025_646	DUPR_2025_DV64	DUPR_2025 DVAR Plan_33	Saticoy 66/16 (D)	Sexton	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	0.00	0.00	0.00	0.00
GNA_2025_212	DUPR_2025_D600	DUPR_2025_730103	Randall 66/12 (D)	Shine	Capacity (UCT)	Underground Cable Temperature Mitigation	DCU to resolve duct bank heating. Create a Blister on SE en	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.00
GNA_2025_646	DUPR_2025_D767	DUPR_2025_8811	Pepper 115/12 (D)	Shiraz	Capacity (UCT)	Increase Circuit/Sub Capacity	Pepper 115/12 (D) - Add 1 -12.0 kV circuit(s) for a total of	Primary Feeder - Cable/Conductor	6/1/2028	1.80	1.78	1.78	1.78
GNA_2025_301	DUPR_2025_D566	DUPR_2025_722037	Ramona 66/4.16 (D)	Shorb	Capacity	Increase Circuit/Sub Capacity	Ramona 16/4.16 kV - Shorb 4 kV - Partial 4 kV Cutover	Primary Feeder - Cable/Conductor	6/1/2027	2.90	2.90	2.90	3.00
GNA_2025_156	DUPR_2025_DV40	DUPR_2025 DVAR Plan_11	Lawndale 16/4.16 (D)	Shoup	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	0.69	0.72	0.75	0.78
GNA_2025_621	DUPR_2025_D774	DUPR_2025_8818	Modena 66/12 (D)	Siam	Capacity (UCT)	Underground Cable Temperature Mitigation	Modena 66/12 (D) - Adding one (1) new 12 kV line, extend i	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.09	0.46	0.57
GNA_2025_396	DUPR_2025_D438	DUPR_2025_551202	Goshen 66/12 (D)	Sierra	Capacity (UCT)	Increase Circuit/Sub Capacity	Goshen 66/12 (D) - Sierra 12kV - Install Automation due	Primary Feeder - Cable/Conductor	12/31/2025	5.19	6.38	6.29	6.20
GNA_2025_396	DUPR_2025_D537	DUPR_2025_651672	Goshen 66/12 (D)	Sierra	Capacity (UCT)	Underground Cable Temperature Mitigation	Goshen 66/12 (D) - Sierra 12kV - Replace 1000 JCN Alumin	Primary Feeder - Cable/Conductor	12/31/2026	0.00	1.00	0.93	0.83
GNA_2025_213	DUPR_2025_D418	DDOR_2024_DSP36748	Randall 66/12 (D)	Silva	Capacity (UCT)	Increase Circuit/Sub Capacity	Falcon Ridge 66/12 (D) - Three (3) new circuits out of Fal	Primary Feeder - Cable/Conductor	6/1/2028	0.61	3.00	3.70	9.83
GNA_2025_213	DUPR_2025_D593	DUPR_2025_730095	Randall 66/12 (D)	Silva	Capacity (UCT)	Underground Cable Temperature Mitigation	Falcon Ridge 66/12 (D) - Install 8th 12kV circuit	Primary Feeder - Cable/Conductor	12/31/2027	0.67	3.07	3.76	0.00
GNA_2025_117	DUPR_2025_D221	DDOR_2024_534564	Firehouse 66/12 (D)	Siren	Capacity (UCT)	Underground Cable Temperature Mitigation	Firehouse 66/12 (D) - Hose 12 kV circuit - To mitigate duc	Primary Feeder - Cable/Conductor	6/1/2025	0.30	0.43	0.46	0.63
GNA_2025_169	DUPR_2025_D395	DDOR_2024_DSP36009	Gisler 66/12 kV (D)	Skiab	Capacity	Increase Circuit/Sub Capacity	Gisler 66/12 kV (D) - Install one (1) New DSP 12 kV Circuit	Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.10	0.94	1.84
GNA_2025_610	DUPR_2025_D907	DUPR_2025_DSP74341	Limestone 66/12 (D)	Slate	Capacity (UCT)	Increase Circuit/Sub Capacity	Safari 33/12 kV (D) - Install one (1) DSP 12 kV Circuit (tot	Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.00	1.20
GNA_2025_427	DUPR_2025_D247	DDOR_2024_548039	Gilbert 66/12 (D)	Slice	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU PIF to recable to 1000CU to mitigate heating viol	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.00
	DUPR_2025_D460	DUPR_2025_630044	Bloomington 66/12 (D)	Slover	Capacity (UCT)	Underground Cable Temperature Mitigation	Bloomington 66/12 (D): Duct Bank Project to re-cable mult	Primary Feeder - Cable/Conductor	12/31/2026	0.00	0.00	0.00	0.00
GNA_2025_580	DUPR_2025_D259	DDOR_2024_573023	Aqueduct 115/12 (D)	Sluice	Capacity (UCT)	Underground Cable Temperature Mitigation	Re-cable 4 - 12 kV circuits: Turbine, Sluice, Penstock, Nee	Primary Feeder - Cable/Conductor	6/1/2026	2.65	1.85	1.87	2.28
GNA_2025_380	DUPR_2025_D314	DDOR_2024_648049	Telegraph 66/12 (D)	Socrates	Capacity (UCT)	Underground Cable Temperature Mitigation	Detailed Scope: DCU to resolve circuit PLL Limitations due	Primary Feeder - Cable/Conductor	6/1/2026	0.59	0.65	0.74	0.83
GNA_2025_539	DUPR_2025_D75	DDOR_2022_477076	Bunker 115/12 (D)	Soldier	Capacity (UCT)	Underground Cable Temperature Mitigation	Bunker 115/12 (D) - New ckt # 12 % Bunker Substation	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.54	0.00
GNA_2025_339	DUPR_2025_D157	DDOR_2023_8529	Bunker 115/12 (D)										

U)	2029 ^a	Units	Deficiency %					Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
			2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b							
3.67								0	1	0	0	0		Existing
15.83	MW	0.00%	0.00%	65.63%	190.06%	189.58%		238	114	3	2	10		New
13.74	MW	0.00%	0.00%	32.50%	132.12%	131.74%		238	114	3	2	10		New
1.44								1028	102	0	2	40		Existing
0.00	MW	0.71%	0.00%	0.00%	0.00%	0.00%		1740	147	0	11	20		New
0.00	MW	0.00%	0.00%	0.00%	0.00%	0.00%		1796	102	0	5	15		New
1.11	MW	6.02%	6.29%	7.89%	9.57%	10.21%		1796	102	0	5	15		New
1.11	MW	6.02%	6.29%	7.89%	9.57%	10.21%		1796	102	0	5	15		New
0.20	MW	44.44%	22.22%	22.22%	22.22%	22.22%		23	155	0	0	6		New
0.46	MW							2417	135	0	2	34		Existing
0.70	MW							4165	177	0	17	18		Existing
0.70	MW							4165	177	0	17	18		New
0.00	MW	1.40%	0.70%	0.70%	0.00%	0.00%		1203	610	29	0	14		Existing
1.50	MW	1.26%	10.71%	10.71%	10.50%	10.50%		1203	610	29	0	14		Existing
1.43	MW							0	126	0	0	7		Existing
0.00	MW							1436	103	0	2	14		Existing
1.41	MW							0	116	0	0	12		Existing
1.41	MW							0	116	0	0	12		Existing
3.11	MW							0	10	1	1	0		New
3.11	MW							0	10	1	1	0		New
5.93	MW							0	10	1	1	0		New
1.74	MW							0	42	1	1	0		Existing
0.30	MW	0.85%	1.03%	1.41%	2.25%	2.81%		1808	300	0	1	20		New
0.37	MW	9.20%	7.90%	6.37%	5.07%	4.36%		2162	428	0	2	30		Existing
2.33	MW	19.78%	19.78%	20.03%	20.03%	20.03%		2162	428	0	2	30		Existing
2.33	MW	19.78%	19.78%	20.03%	20.03%	20.03%		2162	428	0	2	30		New
0.00	MW							5860	473	2	0	38		New
0.57	MW	0.00%	0.00%	0.00%	6.50%	6.28%		1952	163	0	0	22		Existing
0.93	MW	45.46%	46.44%	51.30%	52.31%	8.61%		3063	229	0	0	15		New
2.98	MW	48.01%	47.10%	51.30%	52.31%	26.87%		3063	229	0	0	15		New
1.32	MW							2013	178	3	4	13		Existing
3.00	MW	100.00%	100.00%	100.00%	103.45%	103.45%		730	25	0	0	6		New
0.96	MW							0	178	0	0	31		Existing
1.10	MW							0	109	3	0	6		Existing
1.30	MW							0	237	0	0	37		Existing
0.96	MW							0	237	0	0	37		Existing
0.50								1993	113	0	0	14		Existing
0.00	MW							1079	93	1	0	18		Existing
4.07	MW	23.27%	34.41%	34.95%	35.76%	36.57%		2177	121	0	2	11		New
1.46	MW							1752	123	0	2	8		New
1.86								0	0	1	0	0		Existing
0.83	MW							1191	125	2	89	2		New
1.74	MW							1191	125	2	89	2		New
0.00	MW							261	218	2	1	36		New
0.70	MW							261	218	2	1	36		New
5.78	MW							261	218	2	1	36		New
3.11	MW							1743	125	0	1	11		Existing
0.00	MW							3148	213	1	7	16		New
0.00	MW							3148	213	1	7	16		New
0.00								3148	213	1	7	16		Existing
1.11	MW	0.00%	0.00%	0.00%	0.00%	10.98%		1544	97	0	2	7		New
4.72	MW	15.05%	14.88%	14.88%	14.88%	39.46%		2732	186	1	1	59		New
3.00	MW	100.00%	100.00%	100.00%	103.45%	103.45%		989	46	0	0	10		New
0.04		463.01%	479.58%	498.51%	519.34%	27.55%		901	49	1	0	1		Existing
0.70	MW							1897	206	2	1	13		New
6.13	MW							903	227	0	19	26		New
0.76	MW							903	227	0	19	26		New
9.93	MW							1432	57	0	2	17		Existing
0.00	MW							1432	57	0	2	17		New
0.67	MW							786	236	0	0	32		Existing
4.14	MW	0.00%	0.84%	7.86%	15.38%	34.62%		0	281	0	1	15		Existing
1.22	MW	0.00%	0.00%	0.00%	10.03%	10.20%		762	295	0	0	21		New
0.00	MW							1969	162	0	0	10		Existing
0.00	MW							805	160	1	1	16		New
2.39	MW	31.93%	22.29%	22.53%	27.47%	28.80%		1639	155	0	1	9		Existing
0.91	MW	5.44%	5.99%	6.82%	7.65%	8.39%		1598	167	1	1	8		Existing
0.00	MW							1081	217	0	0	20		Existing
0.00	MW							1081	217	0	0	20		Existing
0.22	MW							804	194	0	1	26		Existing
0.00	MW							1234	141	0	1	12		Existing
0.65	MW							1234	141	0	1	12		New
0.30	MW							1234	141	0	1	12		New
12.15	MW	0.00%	0.00%	68.31%	101.42%	101.59%		2138	83	0	2	11		Existing
1.80	MW	0.00%	0.00%	68.31%	14.72%	15.05%		2138	83	0	2	11		New
9.26	MW	0.00%	0.00%	68.31%	82.81%	83.50%		2138	83	0	2	11		New
0.95		99.16%	165.09%	162.52%	160.36%	158.41%		583	131	0	0	18		Existing
1.62	MW							352	263	0	0	17		New
0.11	MW							110	10	0	1	1		Existing
0.07	MW	0.00%	0.00%	0.00%	0.00%	0.59%		1942	92	0	2	34		New
0.00	MW							1537	239	0	1	26		New

										Deficiency (MW, MVAR or Vp)			
GNA ID	DUPR ID	DUPR Project ID	Substation/Subtransmission line	Circuit	Distribution Service Required	Project Description	Project Description (Additional Information)	Type of Equipment to Be Installed	Operating Date	2025 ^A	2026 ^A	2027 ^A	2028 ^A
GNA_2025_282	DUPR_2025_D4	DDOR_2019_046648	Linden 12/4.16 (D)	Spaulding	Capacity	Increase Circuit/Sub Capacity	DSP Load growth and 1 to x driven project Total 1/04 Condu	Primary Feeder - Cable/Conductor	4/27/2021	1.60	1.60	1.60	1.60
GNA_2025_282	DUPR_2025_D109	DDOR_2023_346260	Linden 12/4.16 (D)	Spaulding	Capacity	Increase Circuit/Sub Capacity	Linden 12/4.16: Boulevard 4KV - Recable getaways	Primary Feeder - Cable/Conductor	6/27/2025	0.00	0.29	0.28	0.25
GNA_2025_282	DUPR_2025_D237	DDOR_2024_546059	Linden 12/4.16 (D)	Spaulding	Capacity	Increase Circuit/Sub Capacity	Linden 12/4.16 - Spaulding 4KV: Partial Cutover of 17 Trans	Primary Feeder - Cable/Conductor	12/31/2025	0.00	0.40	0.40	0.40
GNA_2025_190	DUPR_2025_D712	DUPR_2025_8780	Declerz 66/12 (D)	Speedway	Capacity (UCT)	Increase Circuit/Sub Capacity	Etiwanda 66/33 (D): Adding 33 KV to Etiwanda Substation	Primary Feeder - Cable/Conductor	6/1/2029	0.48	1.85	3.37	4.11
GNA_2025_669	DUPR_2025_D453	DUPR_2025_630042	Bloomington 66/12 (D)	Spike	Capacity (UCT)	Increase Circuit/Sub Capacity	Bloomington 66/12 (D): Tender line extension to mitigate o	Primary Feeder - Cable/Conductor	12/31/2026	1.78	1.33	1.78	1.78
	DUPR_2025_D784	DUPR_2025_8823	Newbury 66/16 (D)	Splendor	Capacity	Increase Circuit/Sub Capacity	Newbury 66/16 (D) - DSP - Install (1) one new 16 KV circ	Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.00	0.00
GNA_2025_597	DUPR_2025_D351	DDOR_2024_8573	Savage 115/12 (D)	Spring Valley	Capacity (UCT)	Underground Cable Temperature Mitigation	Savage 115/12 KV (D) - Install New Blister East of Cable Tre	Substation - Upgrade Components	12/31/2025	0.22	0.20	0.39	0.41
GNA_2025_107	DUPR_2025_D522	DUPR_2025_647055	Santa Fe Springs 66/12 (D)	Starbuck	Capacity (UCT)	Underground Cable Temperature Mitigation	Santa Fe Springs 66/12: Duct Bank Project to Address Heat	Primary Feeder - Cable/Conductor	12/31/2026	3.13	3.11	3.04	0.22
GNA_2025_508	DUPR_2025_D166	DDOR_2023_8559	Lockheed 66/16 (D)	Starfighter	Capacity (UCT)	Increase Circuit/Sub Capacity	Haskell 66/16 (D) - Add 2.0 MVAR of capacitors. Add 1 - 16	Substation - Upgrade Components; Primary Fe	6/1/2027	0.00	0.09	1.74	1.76
GNA_2025_508	DUPR_2025_D547	DUPR_2025_659414	Lockheed 66/16 (D)	Starfighter	Capacity (UCT)	Increase Circuit/Sub Capacity	Haskell 66/16 KV - DSP - New Circuit - Brutus 16 KV Pleas	Primary Feeder - Cable/Conductor	6/1/2027	0.29	0.09	1.59	1.76
GNA_2025_484	DUPR_2025_DV58	DUPR_2025_DVAR Plan_28	Estrella 66/12 (D)	Stargazer	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2026	2.19	2.18	2.17	2.17
GNA_2025_541	DUPR_2025_D68	DDOR_2022_377697	Cajalco 115/12 (D)	Starglow	Capacity (UCT)	Increase Circuit/Sub Capacity	Cajalco 115/12 (D) - Line Extension of Aidan 12KV to offlo	Primary Feeder - Cable/Conductor	9/1/2023	1.46	0.00	0.00	0.00
	DUPR_2025_D66	DDOR_2022_336802	Oasis 66/12 (D)	Stealth	Capacity	Increase Circuit/Sub Capacity	Stealth 12 KV % Oasis : Driver is a needed cascaded load r	Primary Feeder - Cable/Conductor	9/1/2025	0.00	0.00	0.00	0.00
GNA_2025_63	DUPR_2025_D493	DUPR_2025_636039	Oasis 66/12 (D)	Stealth	Capacity (UCT)	Underground Cable Temperature Mitigation	Oasis 66/12 KV - Boone 12 KV - DCU recable to 1000CU du	Primary Feeder - Cable/Conductor	7/1/2026	1.52	3.07	4.41	8.04
	DUPR_2025_DV70	DUPR_2025_DVAR Plan_8	Palmdale 66/12 (D)	Sting	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2026	0.00	0.00	0.00	0.00
GNA_2025_670	DUPR_2025_D49	DDOR_2021_330516	Bloomington 66/12 (D)	Stockcar	Capacity (UCT)	Increase Circuit/Sub Capacity	Pepper 115/12KV - Pinot 12KV	Primary Feeder - Cable/Conductor	6/1/2027	3.57	3.65	4.89	2.52
GNA_2025_670	DUPR_2025_D461	DUPR_2025_630044	Bloomington 66/12 (D)	Stockcar	Capacity (UCT)	Underground Cable Temperature Mitigation	Bloomington 66/12 (D): Duct Bank Project to re-cable mult	Primary Feeder - Cable/Conductor	12/31/2026	3.57	3.65	1.26	0.00
GNA_2025_276	DUPR_2025_D478	DUPR_2025_632074	Compton 16/4.16 (D)	Stockwell	Capacity	Increase Circuit/Sub Capacity	Cutower 60% of Stockwell 4KV to Kenwood 16KV in order t	Primary Feeder - Cable/Conductor	6/1/2026	0.20	0.30	0.30	0.30
GNA_2025_149	DUPR_2025_DV26	DDOR_2024_DVAR Plan_30	Granada 16/4.16 (D)	Story	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	0.16	0.16	0.16	0.17
GNA_2025_250	DUPR_2025_DV71	DUPR_2025_DVAR Plan_9	Perry 16/4.16 (D)	Strawberry	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	0.13	0.14	0.14	0.15
GNA_2025_671	DUPR_2025_D50	DDOR_2021_330516	Bloomington 66/12 (D)	Streamliner	Capacity (UCT)	Underground Cable Temperature Mitigation	Pepper 115/12KV - Pinot 12KV	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	1.80	1.80
GNA_2025_671	DUPR_2025_D462	DUPR_2025_630044	Bloomington 66/12 (D)	Streamliner	Capacity (UCT)	Underground Cable Temperature Mitigation	Bloomington 66/12 (D): Duct Bank Project to re-cable mult	Primary Feeder - Cable/Conductor	12/31/2026	0.00	0.00	1.80	1.59
GNA_2025_297	DUPR_2025_D840	DUPR_2025_8924	Narrows 66/12 (D)	Stutz	Capacity (UCT)	Increase Circuit/Sub Capacity	Narrows 66/12 KV Substation Install one (1) new 12 KV circ	Substation - Upgrade Components; Primary Fe	6/1/2028	1.24	1.24	1.34	1.44
GNA_2025_363	DUPR_2025_D724	DUPR_2025_8794	Concho 115/12 KV (D)	Suave	Capacity (UCT)	Underground Cable Temperature Mitigation	Concho 115/12 KV (D) - Install one (1) new 12 KV circuit fo	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.39	0.39	0.39
GNA_2025_53	DUPR_2025_D494	DUPR_2025_636040	Anaverde 66/12 (D)	Subida	Capacity (UCT)	Underground Cable Temperature Mitigation	Anaverde 66/12 KV - Subida 12 KV - The existing burial dep	Primary Feeder - Cable/Conductor	6/1/2026	2.41	2.07	2.63	2.67
GNA_2025_622	DUPR_2025_D775	DUPR_2025_8818	Modena 66/12 (D)	Sudan	Capacity (UCT)	Underground Cable Temperature Mitigation	Modena 66/12 (D) - Adding one (1) new 12 KV line, extend 1	Substation - Upgrade Components; Primary Fe	6/1/2027	0.00	0.39	0.76	0.80
GNA_2025_171	DUPR_2025_D452	DUPR_2025_629035	Sullivan 66/12 (D)	Sugar	Capacity	Increase Circuit/Sub Capacity	Recable Sugar 12KV to 1000 JCN AL from 4126297E to V54	Primary Feeder - Cable/Conductor	6/1/2026	0.48	0.52	0.57	0.63
GNA_2025_59	DUPR_2025_D64	DDOR_2022_336775	Little Rock 66/12 (D)	Sun Village	Capacity	Increase Circuit/Sub Capacity	Sun Village 12KV % Little Rock Substation.	Primary Feeder - Cable/Conductor	6/1/2026	0.00	1.52	1.46	2.30
GNA_2025_605	DUPR_2025_D323	DDOR_2024_673071	Victor 115/33 (D)	Sunny Vista	Capacity	Increase Circuit/Sub Capacity	DSP New Circuit - Victor 115/33 (D) - 1 - New 33KV Circuit	# Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.72	0.96
GNA_2025_605	DUPR_2025_D781	DUPR_2025_8822	Victor 115/33 (D)	Sunny Vista	Capacity	Increase Circuit/Sub Capacity	Victor 115/33 (D) - Install 1 - New 33 KV Circuit for a total	Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.72	0.96
GNA_2025_460	DUPR_2025_D294	DDOR_2024_639027	Channel Island 66/16 (D)	Surfside	Capacity (UCT)	Increase Circuit/Sub Capacity	Channel Islands 66/16 (D) - Surfside 16 KV - Restore auto	Primary Feeder - Cable/Conductor	6/1/2026	0.60	3.40	4.10	2.20
GNA_2025_170	DUPR_2025_D396	DDOR_2024_DSP36009	Gisler 66/12 (D)	Surveyor	Capacity (UCT)	Underground Cable Temperature Mitigation	Gisler 66/12 KV (D) - Install one (1) new 12 KV circuit (	Substation - Upgrade Components; Primary Fe	6/1/2028	0.00	0.00	0.00	0.00
GNA_2025_657	DUPR_2025_D191	DDOR_2024_531049	Shandin 115/12 (D)	Sweetwater	Capacity (UCT)	Increase Circuit/Sub Capacity	Shandin 115/12 (D) - Irvington - Extend Irvington to offload	Primary Feeder - Cable/Conductor	6/1/2027	1.59	1.63	1.67	1.74
GNA_2025_364	DUPR_2025_D327	DDOR_2024_679039	Concho 115/12 (D)	Taberna	Capacity (UCT)	Increase Circuit/Sub Capacity	Concho 115/12 (D) - New DSP Circuit Concho No.11	Primary Feeder - Cable/Conductor	6/1/2026	0.00	1.74	2.41	2.33
GNA_2025_364	DUPR_2025_D330	DDOR_2024_679040	Concho 115/12 (D)	Taberna	Capacity (UCT)	Increase Circuit/Sub Capacity	Concho 115/12 (D) - New DSP Circuit Concho No.10	Primary Feeder - Cable/Conductor	6/1/2026	0.00	1.57	2.24	2.13
GNA_2025_364	DUPR_2025_D373	DDOR_2024_8683	Concho 115/12 (D)	Taberna	Capacity (UCT)	Increase Circuit/Sub Capacity	Concho 115/12 KV (D) - Increase Substation Capacity from	Substation - Upgrade Components; Primary Fe	6/1/2026	0.00	4.52	5.20	5.11
GNA_2025_364	DUPR_2025_D675	DUPR_2025_779197	Concho 115/12 (D)	Taberna	Capacity (UCT)	Increase Circuit/Sub Capacity	Concho 115/12 (D) - New DSP Circuit Concho Chancela 12k	Primary Feeder - Cable/Conductor	6/1/2027	2.15	0.74	0.74	0.74
GNA_2025_623	DUPR_2025_D680	DUPR_2025_829095	Modena 66/12 (D)	Taiwan	Capacity	Increase Circuit/Sub Capacity	New circuit to offload adjacent Modena sub circuits	Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	0.00	5.04
GNA_2025_624	DUPR_2025_D776	DUPR_2025_8818	Modena 66/12 (D)	Taiwan	Capacity (UCT)	Increase Circuit/Sub Capacity	Modena 66/12 (D) - Adding one (1) new 12 KV line, extend 1	Substation - Upgrade Components; Primary Fe	6/1/2027	0.00	0.00	1.89	7.52
GNA_2025_371	DUPR_2025_D555	DUPR_2025_679045	Santa Rosa 115/12 (D)	Tanglewood	Capacity (UCT)	Underground Cable Temperature Mitigation	Add new duct bank / blister to address duct bank violation	Primary Feeder - Cable/Conductor	6/1/2026	2.17	2.28	1.85	1.89
GNA_2025_57	DUPR_2025_D612	DUPR_2025_736056	Lancaster 66/12 (D)	Target	Capacity (UCT)	Increase Circuit/Sub Capacity	Lancaster 66/12 KV (D) - Mongo 12 KV [Approved] - UG rout	Primary Feeder - Cable/Conductor	6/1/2027	0.00	6.17	5.80	5.76
GNA_2025_308	DUPR_2025_D677	DUPR_2025_822109	Rosemead 66/16 (D)	Telstar	Capacity (UCT)	Increase Circuit/Sub Capacity	Rosemead 66/16 KV - Yarrow 16 KV - New DSP Circuit	Primary Feeder - Cable/Conductor	6/1/2028	0.00	0.00	11.26	12.21
	DUPR_2025_D797	DUPR_2025_8834	Rosemead 66/16 (D)	Honor	Capacity (UCT)	Underground Cable Temperature Mitigation	Rosemead 66/16 (D) - Install one (1) new 16 KV circuit (for	Substation - Upgrade Components; Primary Fe	6/1/2028	0.00	0.00	0.00	0.00
GNA_2025_672	DUPR_2025_D184	DDOR_2024_530026	Bloomington 66/12 (D)	Tender	Capacity (UCT)	Increase Circuit/Sub Capacity	Glen Avon 66/12 (D) - Tyrolite 12KV - DSP New Circuit Relat	Primary Feeder - Cable/Conductor	12/31/2025	0.26	3.17	7.20	9.91
GNA_2025_672	DUPR_2025_D343	DDOR_2024_8548	Bloomington 66/12 (D)	Tender	Capacity (UCT)	Increase Circuit/Sub Capacity	Glen Avon 66/12 (D) - Install (1) New 12KV Circuit #8 (Tyrol	Substation - Upgrade Components; Primary Fe	12/31/2025	0.26	3.17	7.20	9.91
GNA_2025_365	DUPR_2025_D328	DDOR_2024_679039	Concho 115/12 (D)	Tepeyac	Capacity (UCT)	Underground Cable Temperature Mitigation	Concho 115/12 (D) - New DSP Circuit Concho No.11	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.39	0.00	0.00
GNA_2025_365	DUPR_2025_D725	DUPR_2025_8794	Concho 115/12 (D)	Tepeyac	Capacity (UCT)	Underground Cable Temperature Mitigation	Concho 115/12 KV (D) - Install one (1) new 12 KV circuit fo	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.54	0.54	0.57
GNA_2025_101	DUPR_2025_D519	DUPR_2025_647053	Passons 66/12 (D)	Terradell	Capacity (UCT)	Underground Cable Temperature Mitigation	Passons 66/12: Duct Bank Project to Address Heating Con	Primary Feeder - Cable/Conductor	6/1/2026	1.61	1.59	1.67	1.74
	DUPR_2025_D3	DDOR_2019_022613	Alhambra 66/16 (D)	Test	Capacity (UCT)	Underground Cable Temperature Mitigation	Alhambra Sub - Address duct bank temperature violations	Primary Feeder - Cable/Conductor	6/1/2021	0.00	0.00	0.00	0.00
GNA_2025_308	DUPR_2025_D798	DUPR_2025_8834	Rosemead 66/16 (D)	Telstar	Capacity (UCT)	Increase Circuit/Sub Capacity	Rosemead 66/16 (D) - Install one (1) new 16 KV circuit (for	Substation - Upgrade Components; Primary Fe	6/1/2028	0.00	0.00	11.26	12.21
	DUPR_2025_D236	DDOR_2024_546054	Stadium 66/12 (D)	Tevis	Capacity (UCT)	Underground Cable Temperature Mitigation	Stadium 66/12: Duct Bank Project to Recable and Reroute	Primary Feeder - Cable/Conductor	6/1/2025	0.00	0.00	0.00	0.00
GNA_2025_687	DUPR_2025_D185	DDOR_2024_530026	Glen Avon 66/12 (D)	Texfi	Capacity (UCT)	Increase Circuit/Sub Capacity	Glen Avon 66/12 (D) - Tyrolite 12KV - DSP New Circuit Relat	Primary Feeder - Cable/Conductor	12/31/2025	2.20	3.83	3.80	0.00
GNA_2025_687	DUPR_2025_D188	DDOR_2024_530064	Glen Avon 66/12 (D)	Texfi	Capacity (UCT)	Underground Cable Temperature Mitigation	Glen Avon 66/12 (D): Gowan 12 KV - Mitigation duct bank vi	Primary Feeder - Cable/Conductor	6/1/2025	4.15	4.67	4.63	0.00
GNA_2025_687	DUPR_2025_D344	DDOR_2024_8548	Glen Avon 66/12 (D)	Texfi	Capacity (UCT)	Increase Circuit/Sub Capacity	Glen Avon 66/12 (D) - Install (1) New 12KV Circuit #8 (Tyrol	Substation - Upgrade Components; Primary Fe	12/31/2025	2.20	3.83	3.80	0.00
GNA_2025_687	DUPR_2025_D873	DUPR_2025_DSP37229	Glen Avon 66/12 (D)	Texfi	Capacity (UCT)	Increase Circuit/Sub Capacity	Glen Avon 66/12 (D) - Increase Substation Capacity from 8	Substation - Upgrade Components; Primary Fe	12/31/2028	2.20	2.72	2.67	2.67
GNA_2025_441	DUPR_2025_D29	DDOR_2020_027588	Rio Hondo 66/12 (D)	Tigris	Capacity (UCT)	Underground Cable Temperature Mitigation	Rio Hondo - V5201676 Duct Bank Temperature Violation (1	Primary Feeder - Cable/Conductor	6/1/2025	0.37	2.46	2.46	3.00
GNA_2025_441	DUPR_2025_D451	DUPR_2025_627069	Rio Hondo 66/12 (D)	Tigris	Capacity (UCT)	Underground Cable Temperature Mitigation	Rio Hondo 66/12 (D) - Recable 1000 JCN AL to 1000 JCN Cl	Primary Feeder - Cable/Conductor	6/1/2026	0.17	2.26	2.24	2.78
GNA_2025_441	DUPR_2025_D582	DUPR_2025_727141	Rio Hondo 66/12 (D)	Tigris	Capacity (UCT)	Underground Cable Temperature Mitigation	Rio Hondo 66/12 (D) Install New 12 KV circuit to offload Rio	Primary Feeder - Cable/Conductor	6/1/2027	0.37	2.46	2.46	3.00
GNA_2025_441	DUPR_2025_D793	DUPR_2025_8829	Rio Hondo 66/12 (D)	Tigris	Capacity (UCT)	Underground Cable Temperature Mitigation	Rio Hondo 66/12 (D) - Install (1) New 12KV DSP Circuit #12	Substation - Upgrade Components; Primary Fe	6/1/2027	0.37	2.46	2.46	3.00
GNA_2025_517	DUPR_2025_D37	DDOR_2020_4800	Saugus 66/16 (D)	Tips	Capacity (UCT)	Increase Circuit/Sub Capacity	Del Valle 66/16 (D) - Construct a new 66.0/16.0 KV substat	Substation - New Substation; Primary Feeder -	4/13/2029	9.53	8.76	10.74	14.21
GNA_2025_517	DUPR_2025_D316	DDOR_2024_659420	Saugus 66/16 (D)	Tips	Capacity (UCT)	Increase Circuit/Sub Capacity	Saugus 220/66/16 KV - Towsley 16 KV - Install switches, str	Primary Feeder - Cable/Conductor	7/1/2026	9.53	13.59	15.56	10.91
GNA_2025_517	DUPR_2025_D364	DDOR_2024_8635	Saugus 66/16 (D)	Tips	Capacity (UCT)	Increase Circuit/Sub Capacity	Saugus 66/16 - Add 1-16 kv circuit for a total of 12 circuits	Primary Feeder - Cable/Conductor	6/1/2026	9.53	13.59	15.56	10.91
GNA_2025_191	DUPR_2025_D713	DUPR_2025_8780	Declerz 66/12 (D)	Tokay	Capacity (UCT)	Increase Circuit/Sub Capacity	Etiwanda 66/33 (D): Adding 33 KV to Etiwanda Substation	Primary Feeder - Cable/Conductor	6/1/2029	0.00	0.57	2.65	2.74
GNA_2025_191	DUPR_2025_D887	DUPR_2025_DSP37295	Declerz 66/12 (D)	Tokay	Capacity (UCT)	Increase Circuit/Sub Capacity	Declerz 66/12 (D) - Install and equip (1) new 12KV circuit fo	Primary Feeder - Cable/Conductor	6/1/2029	0.09	0.37	2.65	2.74
GNA_2025_701	DUPR_2025_D255	DDOR_2024_552008	Monolith 66/12 (D)	Tomahawk	Capacity	Increase Circuit/Sub Capacity	Monolith 66/12 KV - Tomahawk 12 KV - Re-conductor 550' o	Primary Feeder - Cable/Conductor	6/1/2025	0.91	0.87	0.00	0.00
	DUPR_2025_D65	DDOR_2022_336801	Oasis 66/12 (D)	Tomcat	Capacity	Increase Circuit/Sub Capacity	Tomcat 12 KV % Oasis : Driver is a needed cascaded load r	Primary Feeder - Cable/Conductor	9/1/2025	0.00	0.00	0.00	0.00
GNA_2025_298	DUPR_2025_D841	DUPR_2025_8924	Narrows 66/12 (D)	Torpedo	Capacity (UCT)	Increase Circuit/Sub Capacity	Narrows 66/12 KV Substation Install one (1) new 12 KV circ						

U)	Deficiency %					Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
2029 ^a	Units	2025 ^b	2026 ^b	2027 ^b	2028 ^b							
1.60	MW	106.67%	106.67%	106.67%	106.67%	555	54	0	0	7		Existing
0.22	MW	0.07%	19.33%	18.33%	16.80%	555	54	0	0	7		Existing
0.50	MW	0.00%	26.67%	26.67%	26.67%	555	54	0	0	7		Existing
4.93	MW					36	74	0	0	11		New
1.78	MW					1094	77	0	0	7		New
0.00	MW					1991	344	0	0	7		New
0.41	MW					1957	19	0	8	3		Existing
0.17	MW					293	105	1	0	5		New
2.09	MW	0.00%	0.56%	10.85%	10.88%	2894	374	0	0	11		Existing
1.94	MW	1.96%	0.56%	9.81%	10.86%	2894	374	0	0	11		New
2.16						156	66	0	0	2		Existing
0.00	MW					2310	90	4	11	16		Existing
0.00	MW					2467	146	1	1	14		Existing
8.04	MW					2467	146	1	1	14		New
0.00		0.00%	0.00%	0.00%	0.00%	2484	69	0	0	2		Existing
2.65	MW	36.32%	37.13%	49.90%	25.53%	2115	172	0	0	18		Existing
0.00	MW	36.32%	37.13%	12.86%	0.00%	2115	172	0	0	18		New
0.40	MW	6.90%	10.34%	10.34%	10.34%	1574	76	0	0	3		New
0.18		69.53%	70.91%	72.90%	75.66%	528	80	0	0	7		Existing
0.16		59.35%	60.83%	62.80%	65.43%	521	13	0	0	1		Existing
1.89	MW					921	256	2	3	19		Existing
1.67	MW					921	256	2	3	19		New
1.54	MW					2961	220	3	0	14		New
0.39	MW	100.00%	3.44%	3.44%	3.44%	0	0	0	0	0		New
2.72	MW	25.08%	23.18%	29.45%	29.97%	1159	326	0	0	20		New
0.87	MW					1746	136	1	0	49		New
0.72	MW	4.67%	5.06%	5.54%	6.13%	2043	484	7	0	30		New
3.41	MW					1129	84	3	3	11		Existing
1.08	MW	0.00%	0.00%	2.19%	2.92%	0	0	0	0	0		Existing
1.08	MW	0.00%	0.00%	2.19%	2.92%	0	0	0	0	0		New
2.30	MW					5134	468	5	3	49		Existing
0.11	MW					0	49	1	1	4		Existing
1.80	MW	13.29%	13.63%	13.96%	14.55%	3237	145	0	2	72		Existing
2.28	MW					1050	276	0	1	11		Existing
2.11	MW					1050	276	0	1	11		Existing
5.07	MW					1050	276	0	1	11		Existing
0.76	MW					1050	276	0	1	11		New
6.02	MW					523	122	0	1	45		New
8.50	MW					523	122	0	1	45		New
2.00	MW	24.11%	25.76%	19.98%	20.54%	2757	210	0	0	23		New
5.72	MW					540	362	0	1	12		New
12.29	MW					1866	265	0	2	19		New
0.00	MW					1647	759	4	2	26		New
9.59	MW	2.36%	28.71%	63.44%	87.31%	1886	80	0	0	15		Existing
9.59	MW	2.36%	28.71%	63.44%	87.31%	1886	80	0	0	15		Existing
0.00	MW	100.00%	3.39%	0.00%	0.00%	0	0	0	0	0		Existing
0.57	MW	100.00%	4.76%	4.76%	5.03%	0	0	0	0	0		New
1.80	MW	16.07%	15.87%	16.67%	17.37%	2445	315	2	0	17		New
0.00	MW					3180	307	4	0	30		Existing
12.29	MW					1866	265	0	2	19		New
0.00	MW					800	60	0	0	13		Existing
0.00	MW					1233	105	0	0	9		Existing
0.00	MW					1233	105	0	0	9		Existing
0.00	MW					1233	105	0	0	9		Existing
2.67	MW					1233	105	0	0	9		New
3.13	MW					1144	159	2	0	16		Existing
2.91	MW					1144	159	2	0	16		New
3.13	MW					1144	159	2	0	16		New
3.13	MW					1144	159	2	0	16		New
16.76	MW					1722	300	1	0	18	CAISO: N/A CPUC: SCE submitted an Advice Letter in 2025. SCE: Licensing activities authorized internally in 2015.	Existing
13.47	MW					1722	300	1	0	18		Existing
13.47	MW					1722	300	1	0	18		Existing
1.41	MW	0.00%	0.64%	24.77%	25.61%	2317	217	1	1	9		New
0.48	MW	0.84%	3.46%	24.77%	25.61%	2317	217	1	1	9		New
0.00	MW					1268	457	4	7	34		Existing
0.00	MW					2303	48	0	0	7		Existing
2.20	MW					2191	104	2	0	19		New
20.70	MW					0	24	0	3	1		Existing
0.73	Vpu					54	13	0	0	0		New
1.85	MW					251	85	1	1	6		New
14.35	MW					1820	163	6	1	29		Existing
0.00	MW					2366	120	2	5	11		Existing
1.24	MW					2366	120	2	5	11		New
11.00	MW					268	158	2	0	16		New
0.22	MW	2.46%	2.23%	2.23%	2.46%	1367	167	0	1	4		Existing
0.00	MW					233	186	1	0	27		New
0.87	MW					233	186	1	0	27		New

GNA ID	DUPR ID	DUPR 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 Vp)			
										2025 ^A	2026 ^A	2027 ^A	2028 ^A
GNA_2025_248	DUPR_2025_0574	DUPR_2025_726086	Nogales 66/12 (D)	Valiant	Capacity (UCT)	Underground Cable Temperature Mitigation	Install new circuit to offload Gartel New circuit is needed to	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.00
GNA_2025_528	DUPR_2025_0514	DUPR_2025_644091	Howard 66/4.16 (D)	Van Wick	Capacity	Increase Circuit/Sub Capacity	Van Wick 4kV % Howard partial cutover to Alaska 16kV % Y	Primary Feeder - Cable/Conductor	6/1/2026	1.10	1.10	1.20	1.20
GNA_2025_527	DUPR_2025_0403	DDOR_2024_DSP36690	Porterville 66/12 (D)	Vandalia	Capacity (UCT)	Increase Circuit/Sub Capacity	Poplar 66/12 kV (D) - Install one (1) New DSP 12 kV Circuit	Substation - Upgrade Components; Primary Fe	6/1/2028	0.00	0.00	0.00	2.09
GNA_2025_527	DUPR_2025_0533	DUPR_2025_651659	Porterville 66/12 (D)	Vandalia	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP DCU PIF to recable all circuit getaways from 1000 JCN	Primary Feeder - Cable/Conductor	11/1/2026	0.00	0.00	0.63	0.04
GNA_2025_527	DUPR_2025_0641	DUPR_2025_751246	Porterville 66/12 (D)	Vandalia	Capacity (UCT)	Increase Circuit/Sub Capacity	Porterville 66/12 (D) - Goodhue 12 kV - New DSP Circuit	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	3.17	2.63
GNA_2025_527	DUPR_2025_0817	DUPR_2025_8854	Porterville 66/12 (D)	Vandalia	Capacity (UCT)	Increase Circuit/Sub Capacity	Porterville 66/12 kV (D) - One (1) new DSP 12 kV Circuit out	Substation - Upgrade Components	6/1/2027	0.00	0.00	3.17	2.63
GNA_2025_374	DUPR_2025_DV30	DDOR_2024_DVAR Plan_34	Potrero 66/16 (D)	Vaquero	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2026	1.19	1.12	1.06	1.00
GNA_2025_658	DUPR_2025_046	DDOR_2021_231789	Shandin 115/12 (D)	Varsity	Capacity (UCT)	Underground Cable Temperature Mitigation	DSP - Duct bank temperature violation - Multiple circuits %	Primary Feeder - Cable/Conductor	6/1/2027	0.00	1.35	0.76	0.74
GNA_2025_631	DUPR_2025_DV57	DUPR_2025_DVAR Plan_27	Calectric 115/33 (D)	Verdemon	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	2.83	2.79	2.75	2.71
GNA_2025_102	DUPR_2025_0520	DUPR_2025_647053	Passons 66/12 (D)	Vicki	Capacity (UCT)	Underground Cable Temperature Mitigation	Passons 66/12: Duct Bank Project to Address Heating Con	Primary Feeder - Cable/Conductor	6/1/2026	0.98	0.96	1.67	1.72
GNA_2025_474	DUPR_2025_0500	DUPR_2025_639030	Saticoy 66/16 (D)	Vineyard	Capacity (UCT)	Underground Cable Temperature Mitigation	Create new circuit getaway paths for Highway, Vineyard 16	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.00	0.20	1.30
GNA_2025_474	DUPR_2025_0693	DUPR_2025_8711	Saticoy 66/16 (D)	Vineyard	Capacity (UCT)	Underground Cable Temperature Mitigation	Saticoy 66/16 (D): Install new getaways to reroute the Malo	Substation - Upgrade Components	6/1/2026	0.00	0.00	0.20	1.30
GNA_2025_268	DUPR_2025_D210	DDOR_2024_532034	Brewster 16/4.16 (D)	Vita	Capacity	Increase Circuit/Sub Capacity	Brewster 16/4.16 - Vita 4kV: Partial Cutover of 38 Transform	Primary Feeder - Cable/Conductor	6/1/2025	0.80	0.70	0.70	0.80
GNA_2025_214	DUPR_2025_0601	DUPR_2025_730103	Randall 66/12 (D)	Wahlstrom	Capacity (UCT)	Underground Cable Temperature Mitigation	DCU to resolve duct bank heating. Create a Blister on SE en	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.39
GNA_2025_126	DUPR_2025_0607	DUPR_2025_734087	Kimball 66/12 (D)	Warhawk	Capacity (UCT)	Increase Circuit/Sub Capacity	Kimball 66/12 (D) - Install (1) new circuit 16 at position 108	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	2.39	6.11
GNA_2025_126	DUPR_2025_0812	DUPR_2025_8852	Kimball 66/12 (D)	Warhawk	Capacity (UCT)	Increase Circuit/Sub Capacity	Kimball 66/12 (D) - Install (1) new 12 kV circuit (for a total o	Substation - Upgrade Components; Primary Fe	6/1/2027	0.00	0.00	2.39	6.11
GNA_2025_262	DUPR_2025_D475	DUPR_2025_632069	South Gate 16/4.16 (D)	Webbwood	Capacity	Increase Circuit/Sub Capacity	South Gate 16/4.16: Webbwood 4kV Partial Cutover Partial	Primary Feeder - Cable/Conductor	6/1/2026	0.04	0.05	0.08	0.11
GNA_2025_223	DUPR_2025_0630	DUPR_2025_746245	State Street 66/12 (D)	Webster	Capacity	Increase Circuit/Sub Capacity	State Street(D) - Forest 12kV - DSP -Ductbank	Primary Feeder - Cable/Conductor	6/1/2027	0.00	2.79	7.00	11.26
GNA_2025_613	DUPR_2025_DV31	DDOR_2024_DVAR Plan_35	Canyon 66/12 (D)	Weir	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2026	0.12	0.10	0.08	0.06
GNA_2025_613	DUPR_2025_DV62	DUPR_2025_DVAR Plan_31	Canyon 66/12 (D)	Weir	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2026	0.49	0.48	0.48	0.47
GNA_2025_327	DUPR_2025_D122	DDOR_2023_534554	Chase 66/12 (D)	Weirick	Capacity (UCT)	Underground Cable Temperature Mitigation	Chase 66/12 - New Circuit	Primary Feeder - Cable/Conductor	6/1/2026	0.70	0.67	0.61	0.54
GNA_2025_326	DUPR_2025_D152	DDOR_2023_8526	Chase 66/12 (D)	Weirick	Capacity	Increase Circuit/Sub Capacity	Chase 66/12 - Add (1) new 12 kV circuit for a total of 16	Substation - Upgrade Components	6/1/2025	0.00	6.07	0.00	0.00
GNA_2025_327	DUPR_2025_D819	DUPR_2025_8870	Chase 66/12 (D)	Weirick	Capacity (UCT)	Increase Circuit/Sub Capacity	Corona 66/33 kV (D) - Add (1) 33 kV circuit for a total of (6)	Substation - Upgrade Components; Primary Fe	6/1/2027	0.00	4.91	4.89	4.83
GNA_2025_263	DUPR_2025_DV51	DUPR_2025_DVAR Plan_21	Alon 66/12 (D)	Weiser	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2026	1.49	1.49	1.49	1.48
GNA_2025_410	DUPR_2025_0638	DUPR_2025_751244	Tulare 66/12 (D)	Whey	Capacity (UCT)	Increase Circuit/Sub Capacity	Bliss 66/12 kV (D) - Tranquility 12 kV - DSP - New Circuit	Primary Feeder - Cable/Conductor	12/31/2027	0.00	1.43	2.30	3.43
GNA_2025_410	DUPR_2025_0805	DUPR_2025_8847	Tulare 66/12 (D)	Whey	Capacity (UCT)	Increase Circuit/Sub Capacity	Bliss 66/12 kV (D) - Install one (1) new DSP 12 kV circuit (fo	Substation - Upgrade Components; Primary Fe	6/1/2027	0.00	1.43	2.30	3.43
GNA_2025_328	DUPR_2025_D486	DUPR_2025_634081	Chase 66/12 (D)	Whisper	Capacity (UCT)	Underground Cable Temperature Mitigation	Chase 66/12 (D) - Mitigate Chase Duct Bank Heating Issues	Primary Feeder - Cable/Conductor	6/1/2026	0.13	0.13	0.11	0.11
	DUPR_2025_0610	DUPR_2025_735199	Thousand Oaks 66/16 (D)	Whitcliff	Capacity (UCT)	Increase Circuit/Sub Capacity	Thousand Oaks 66/16 (D) - DSP -Westlake 16 kV - Install on	Primary Feeder - Cable/Conductor	12/31/2027	0.00	0.00	0.00	0.00
	DUPR_2025_0779	DUPR_2025_8821	Thousand Oaks 66/16 (D)	Whitcliff	Capacity (UCT)	Increase Circuit/Sub Capacity	Thousand Oaks 66/16 (D) - DSP - Install (1) one new 16 kV	Primary Feeder - Cable/Conductor	6/1/2027	0.00	0.00	0.00	0.00
GNA_2025_346	DUPR_2025_D288	DDOR_2024_634059	Milliken 66/12 (D)	Whitehorse	Capacity (UCT)	Increase Circuit/Sub Capacity	Milliken 66/12 (D) - New Circuit to offload Whitehorse	Primary Feeder - Cable/Conductor	6/1/2027	2.39	2.35	15.13	17.59
GNA_2025_346	DUPR_2025_D361	DDOR_2024_8611	Milliken 66/12 (D)	Whitehorse	Capacity (UCT)	Increase Circuit/Sub Capacity	Milliken 66/12 (D) - Add 1 -12.0 kV circuit(s) for a total of 16	Primary Feeder - Cable/Conductor	6/1/2026	2.39	2.35	15.13	17.59
GNA_2025_345	DUPR_2025_D432	DUPR_2025_534598	Milliken 66/12 (D)	Whitehorse	Capacity	Increase Circuit/Sub Capacity	Milliken 66/12 (D) - Whitehorse 12kV - re-conductor of 350C	Primary Feeder - Cable/Conductor	8/1/2025	3.96	3.90	1.35	1.31
GNA_2025_346	DUPR_2025_D719	DUPR_2025_8780	Milliken 66/12 (D)	Whitehorse	Capacity (UCT)	Increase Circuit/Sub Capacity	Etwanda 66/33 (D): Adding 33 kV to Etwanda Substation	Primary Feeder - Cable/Conductor	6/1/2029	2.41	2.35	1.09	3.15
GNA_2025_674	DUPR_2025_0588	DUPR_2025_730093	Bloomington 66/12 (D)	Wigwag	Capacity (UCT)	Increase Circuit/Sub Capacity	Add new 12kV circuit % Wimbledon substitution for a total of	Primary Feeder - Cable/Conductor	6/1/2027	2.39	2.61	0.20	0.46
GNA_2025_674	DUPR_2025_0822	DUPR_2025_8886	Bloomington 66/12 (D)	Wigwag	Capacity (UCT)	Increase Circuit/Sub Capacity	Wimbledon 66/12 (D) - Install two (2) new 12 kV circuits for	Primary Feeder - Cable/Conductor	6/1/2027	2.39	2.61	0.20	0.46
GNA_2025_181	DUPR_2025_D413	DDOR_2024_DSP36748	Alder 66/12 (D)	Wind Tunnel	Capacity (UCT)	Underground Cable Temperature Mitigation	Falcon Ridge 66/12 (D) -Three (3) new circuits out of Falcor	Primary Feeder - Cable/Conductor	6/1/2028	0.98	2.22	2.20	2.20
GNA_2025_181	DUPR_2025_D731	DUPR_2025_8798	Alder 66/12 (D)	Wind Tunnel	Capacity (UCT)	Underground Cable Temperature Mitigation	Falcon Ridge 66/12 (D) - Install (2) new 12kV circuits for a t	Primary Feeder - Cable/Conductor	6/1/2027	0.98	2.22	2.20	2.20
GNA_2025_358	DUPR_2025_D410	DDOR_2024_DSP36696	Pedley 66/12 (D)	Wineville	Capacity (UCT)	Increase Circuit/Sub Capacity	Bain 66/12 (D) - Add 2 -12.0 kV circuit(s) for a total of 12 an	Substation - Upgrade Components; Primary Fe	6/1/2028	4.04	5.22	7.02	9.59
GNA_2025_329	DUPR_2025_D123	DDOR_2023_534554	Chase 66/12 (D)	Wyle	Capacity	Increase Circuit/Sub Capacity	Chase 66/12 - New Circuit	Primary Feeder - Cable/Conductor	6/1/2026	1.15	1.74	1.74	1.76
GNA_2025_329	DUPR_2025_D153	DDOR_2023_8526	Chase 66/12 (D)	Wyle	Capacity	Increase Circuit/Sub Capacity	Chase 66/12 - Add (1) new 12 kV circuit for a total of 16	Substation - Upgrade Components	6/1/2025	0.93	2.09	2.22	2.11
GNA_2025_330	DUPR_2025_D487	DUPR_2025_634081	Chase 66/12 (D)	Wyle	Capacity (UCT)	Underground Cable Temperature Mitigation	Chase 66/12 (D) - Mitigate Chase Duct Bank Heating Issues	Primary Feeder - Cable/Conductor	6/1/2026	0.00	0.57	0.59	0.59
GNA_2025_226	DUPR_2025_DV63	DUPR_2025_DVAR Plan_32	Cabrillo 66/12 (D)	Xerox	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Ground (Padmounted)	Primary Feeder - Capacitor	8/31/2026	4.12	6.74	7.61	7.71
GNA_2025_389	DUPR_2025_D17	DDOR_2019_934335	Cucamonga 66/12 (D)	Yarborough	Capacity (UCT)	Underground Cable Temperature Mitigation	Cucamonga 66/12kV - Earnhardt 12kV: Install 1 new 4 v	Primary Feeder - Cable/Conductor	6/30/2025	3.24	3.04	3.17	3.63
GNA_2025_258	DUPR_2025_D200	DDOR_2024_532025	Vail 66/16 (D)	Yates	Capacity	Increase Circuit/Sub Capacity	Vail 66/16 (D): Yates 16kV DSP DCU Recable 500EPR and r	Primary Feeder - Cable/Conductor	6/1/2025	0.70	3.20	4.80	4.60
GNA_2025_588	DUPR_2025_D114	DDOR_2023_473038	Rancho 33/12 (D)	Yucca Loma	Capacity (UCT)	Underground Cable Temperature Mitigation	Rancho 33kV/12kV - Lakota 12kV and Knolls 12kV - Rerout	Primary Feeder - Cable/Conductor	9/1/2025	0.48	0.00	0.00	0.00
GNA_2025_290	DUPR_2025_D233	DDOR_2024_546051	Sunnyside 66/12 (D)	Zane	Capacity	Increase Circuit/Sub Capacity	Sunnyside 66/12 (D) Zane 12kV DSP DCU Reconductor 2/0	Primary Feeder - Cable/Conductor	6/1/2025	0.60	0.50	0.50	0.40
GNA_2025_692	DUPR_2025_DV27	DDOR_2024_DVAR Plan_31	Proctor 66/12 (D)	Zeus	Reactive Power	Project to Address Reactive Power Concern, New Ca	(1) New Capacitor On Pole Line (Overhead)	Primary Feeder - Capacitor	8/31/2025	1.38	1.38	1.38	1.38
GNA_2025_647	DUPR_2025_053	DDOR_2021_330516	Pepper 115/12 (D)	Zinfandel	Capacity (UCT)	Underground Cable Temperature Mitigation	Pepper 115/12kV - Pinot 12kV	Primary Feeder - Cable/Conductor	6/1/2027	2.61	2.57	2.57	2.54
GNA_2025_261	DUPR_2025_D201	DDOR_2024_532027	Randolph 66/16 (D)	Zoe	Capacity	Increase Circuit/Sub Capacity	Randolph 66/16 (D): Zoe 16kV Recable 350 PILC to 500 EPI	Primary Feeder - Cable/Conductor	6/1/2025	0.30	0.90	0.70	0.80

U)		Deficiency %					Residential Customers	Commercial Customers	Industrial Customers	Agricultural Customers	Other Customers	Notes	Project History
2029 ^a	Units	2025 ^b	2026 ^b	2027 ^b	2028 ^b	2029 ^b							
0.00	MW						1577	311	0	2	16		New
0.90	MW	50.00%	50.00%	54.55%	54.55%	40.91%	1327	67	0	0	5		New
4.28	MW						820	197	4	110	36		Existing
0.07	MW						820	197	4	110	36		New
2.63	MW						820	197	4	110	36		New
2.63	MW						820	197	4	110	36		New
0.93							112	104	0	0	8		Existing
0.67	MW						0	68	0	0	17		Existing
0.63							5	8	1	0	0		Existing
1.78	MW						1674	105	0	2	23		New
1.60	MW						4011	286	2	6	31		New
1.60	MW						4011	286	2	6	31		New
0.80	MW	27.59%	24.14%	24.14%	27.59%	27.59%	1123	82	0	0	6		Existing
0.72	MW	0.00%	0.00%	0.00%	3.71%	7.00%	2378	230	1	1	13		New
6.91	MW	0.00%	0.00%	20.66%	52.95%	59.98%	1814	62	1	1	16		New
6.91	MW	0.00%	0.00%	20.66%	52.95%	59.98%	1814	62	1	1	16		New
0.18	MW	1.98%	2.48%	3.96%	5.45%	8.91%	1225	90	1	0	7		New
15.50	MW	0.01%	26.58%	66.67%	107.25%	147.62%	426	478	21	6	21		New
0.04							165	205	0	0	7		Existing
0.47							165	205	0	0	7		Existing
0.50	MW						819	221	2	2	20		Existing
0.00	MW						819	221	2	2	20		Existing
4.83	MW						819	221	2	2	20		New
1.48							0	28	1	0	1		Existing
3.35	MW						1952	170	1	15	12		New
3.35	MW						1952	170	1	15	12		New
0.09	MW						71	63	0	0	8		New
0.00	MW						2643	117	0	0	7		New
0.00	MW						2643	117	0	0	7		New
6.41	MW	21.91%	21.54%	136.68%	155.54%	57.80%	7	195	0	0	21		Existing
6.41	MW	21.91%	21.54%	136.68%	158.61%	57.80%	7	195	0	0	21		Existing
1.29	MW	51.30%	50.52%	17.49%	16.97%	16.71%	7	195	0	0	21		New
5.43	MW	22.13%	21.54%	9.99%	27.80%	47.93%	7	195	0	0	21		New
0.33	MW	20.78%	21.82%	1.67%	3.92%	2.78%	2069	38	0	0	13		New
0.33	MW	20.78%	21.82%	1.67%	3.92%	2.78%	2069	38	0	0	13		New
2.17	MW						2	160	0	0	18		Existing
2.17	MW						2	160	0	0	18		New
1.76	MW						781	198	0	0	14		Existing
1.85	MW						1446	261	1	1	21		Existing
2.11	MW						1446	261	1	1	21		Existing
0.70	MW						1446	261	1	1	21		New
7.72							0	40	0	0	0		Existing
4.04	MW						723	218	0	0	20		Existing
5.50	MW						1139	309	4	0	12		Existing
0.00	MW	5.56%	0.00%	0.00%	0.00%	0.00%	1566	33	0	4	2		Existing
0.40	MW	5.00%	4.17%	4.17%	3.33%	3.33%	1946	237	0	0	42		Existing
1.39							1	6	0	0	1		Existing
2.57	MW						2156	138	0	1	55		Existing
1.00	MW	3.26%	9.78%	7.61%	8.70%	10.87%	1031	203	0	2	15		Existing

Attachment E

Known Loads Tracking Report

[illegible]

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ID		Name		Address		City		State		Zip		County		FIPS		Lat		Long		Elevation		Area		Population		Density		Timezone		Region		Country		Status		Type		Category		Subcategory		Parent		Child		Grandchild		GreatGrandchild		SuperGrandchild		HyperGrandchild		UltraGrandchild		MegaGrandchild		GigaGrandchild		TeraGrandchild		PetaGrandchild		ExaGrandchild		ZettaGrandchild		YottaGrandchild		BravoGrandchild		CharlieGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild		HotelGrandchild		IndiaGrandchild		JuliettGrandchild		KiloGrandchild		LimaGrandchild		MikeGrandchild		NovemberGrandchild		OscarGrandchild		PapaGrandchild		QuebecGrandchild		RomeoGrandchild		TangoGrandchild		UniformGrandchild		VictorGrandchild		WhiskeyGrandchild		X-rayGrandchild		YankeeGrandchild		ZuluGrandchild		AlphaGrandchild		BetaGrandchild		GammaGrandchild		DeltaGrandchild		EchoGrandchild		FoxtrotGrandchild		GolfGrandchild	
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State	County	City	Project	Type	Category	Status	SIC Code	2017-2018	2019-2020	2021-2022	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	2789-2790	2791-2792	2793-2794	2795-2796	2797-2798	2799-2800	2801-2802	2803-2804	2805-2806	2807-2808	2809-2810	2811-2812	2813-2814	2815-2816	2817-2818	2819-2820	2821-2822	2823-2824	2825-2826	2827-2828	2829-2830	2831-2832	2833-2834	2835-2836	2837-2838	2839-2840	2841-2842	2843-2844	2845-2846	2847-2848	2849-2850	2851-2852	2853-2854	2855-2856	2857-2858	2859-2860	2861-2862	2863-2864	2865-2866	2867-2868	2869-2870	2871-2872	2873-2874	2875-2876	2877-2878	2879-2880	2881-2882	2883-2884	2885-2886	2887-2888	2889-2890	2891-2892	2893-2894	2895-2896	2897-2898	2899-2900	2901-2902	2903-2904	2905-2906	2907-2908	2909-2910	2911-2912	2913-2914	2915-2916	2917-2918	2919-2920	2921-2922	2923-2924	2925-2926	2927-2928	2929-2930	2931-2932	2933-2934	2935-2936	2937-2938	2939-2940	2941-2942	2943-2944	2945-2946	2947-2948	2949-2950	2951-2952	2953-2954	2955-2956	2957-2958	2959-2960	2961-2962	2963-2964	2965-2966	2967-2968	2969-2970	2971-2972	2973-2974	2975-2976	2977-2978	2979-2980	2981-2982	2983-2984	2985-2986	2987-2988	2989-2990	2991-2992	2993-2994	2995-2996	2997-2998	2999-3000	3001-3002	3003-3004	3005-3006	3007-3008	3009-3010	3011-3012	3013-3014	3015-3016	3017-3018	3019-3020	3021-3022	3023-3024	3025-3026	3027-3028	3029-3030	3031-3032	3033-3034	3035-3036	3037-3038	3039-3040	3041-3042	3043-3044	3045-3046	3047-3048	3049-3050	3051-3052	3053-3054	3055-3056	3057-3058	3059-3060	3061-3062	3063-3064	3065-3066	3067-3068	3069-3070	3071-3072	3073-3074	3075-3076	3077-3078	3079-3080	3081-3082	3083-3084	3085-3086	3087-3088	3089-3090	3091-3092	3093-3094	3095-3096	3097-3098	3099-3100	3101-3102	3103-3104	3105-3106	3107-3108	3109-3110	3111-3112	3113-3114	3115-3116	3117-3118	3119-3120	3121-3122	3123-3124	3125-3126	3127-3128	3129-3130	3131-3132	3133-3134	3135-3136	3137-3138	3139-3140	3141-3142	3143-3144	3145-3146	3147-3148	3149-3150	3151-3152	3153-3154	3155-3156	3157-3158	3159-3160	3161-3162	3163-3164	3165-3166	3167-3168	3169-3170	3171-3172	3173-3174	3175-3176	3177-3178	3179-3180	3181-3182	3183-3184	3185-3186	3187-3188	3189-3190	3191-3192	3193-3194	3195-3196	3197-3198	3199-3200	3201-3202	3203-3204	3205-3206	3207-3208	3209-3210	3211-3212	3213-3214	3215-3216	3217-3218	3219-3220	3221-3222	3223-3224	3225-3226	3227-3228	3229-3230	3231-3232	3233-3234	3235-3236	3237-3238	3239-3240	3241-3242	3243-3244	3245-3246	3247-3248	3249-3250	3251-3252	3253-3254	3255-3256	3257-3258	3259-3260	3261-3262	3263-3264	3265-3266	3267-3268	3269-3270	3271-3272	3273-3274	3275-3276	3277-3278	3279-3280	3281-3282	3283-3284	3285-3286	3287-3288	3289-3290	3291-3292	3293-3294	3295-3296	3297-3298	3299-3300	3301-3302	3303-3304	3305-3306	3307-3308	3309-3310	3311-3312	3313-3314	3315-3316	3317-3318	3319-3320	3321-3322	3323-3324	3325-3326	3327-3328	3329-3330	3331-3332	3333-3334	3335-3336	3337-3338	3339-3340	3341-3342	3343-3344	3345-3346	3347-3348	3349-3350	3351-3352	3353-3354	3355-3356	3357-3358	3359-3360	3361-3362	3363-3364	3365-3366	3367-3368	3369-3370	3371-3372	3373-3374	3375-3376	3377-3378	3379-3380	3381-3382	3383-3384	3385-3386	3387-3388	3389-3390	3391-3392	3393-3394	3395-3396	3397-3398	3399-3400	3401-3402	3403-3404	3405-3406	3407-3408	3409-3410	3411-3412	3413-3414	3415-3416	3417-3418	3419-3420	3421-3422	3423-3424	3425-3426	3427-3428	3429-3430	3431-3432	3433-3434	3435-3436	3437-3438	3439-3440	3441-3442	3443-3444	3445-3446	3447-3448	3449-3450	3451-3452	3453-3454	3455-3456	3457-3458	3459-3460	3461-3462	3463-3464	3465-3466	3467-3468	3469-3470	3471-3472	3473-3474	3475-3476	3477-3478	3479-3480	3481-3482	3483-3484	3485-3486	3487-3488	3489-3490	3491-3492	3493-3494	3495-3496	3497-3498	3499-3500	3501-3502	3503-3504	3505-3506	3507-3508	3509-3510	3511-3512	3513-3514	3515-3516	3517-3518	3519-3520	3521-3522	3523-3524	3525-3526	3527-3528	3529-3530	3531-3532	3533-3534	3535-3536	3537-3538	3539-3540	3541-3542	3543-3544	3545-3546	3547-3548	3549-3550	3551-3552	3553-3554	3555-3556	3557-3558	3559-3560	3561-3562	3563-3564	3565-3566	3567-3568	3569-3570	3571-3572	3573-3574	3575-3576	3577-3578	3579-3580	3581-3582	3583-3584	3585-3586	3587-3588	3589-3590	3591-3592	3593-3594	3595-3596	3597-3598	3599-3600	3601-3602	3603-3604	3605-3606	3607-3608	3609-3610	3611-3612	3613-3614	3615-3616	3617-3618	3619-3620	3621-3622	3623-3624	3625-3626	3627-3628	3629-3630	3631-3632	3633-3634	3635-3636	3637-3638	3639-3640	3641-3642	3643-3644	3645-3646	3647-3648	3649-3650	3651-3652	3653-3654	3655-3656	3657-3658	3659-3660	3661-3662	3663-3664	3665-3666	3667-3668	3669-3670	3671-3672	3673-3674	3675-3676	3677-3678	3679-3680	3681-3682	3683-3684	3685-3686	3687-3688	3689-3690	3691-3692	3693-3694	3695-3696	3697-3698	3699-3700	3701-3702	3703-3704	3705-3706	3707-3708	3709-3710	3711-3712	3713-3714	3715-3716	3717-3718	3719-3720	3721-3722	3723-3724	3725-3726	3727-3728	3729-3730	3731-3732	3733-3734	3735-3736	3737-3738	3739-3740	3741-3742	3743-3744	3745-3746	3747-3748	3749-3750	3751-3752	3753-3754	3755-3756	3757-3758	3759-3760	3761-3762	3763-3764	3765-3766	3767-3768	3769-3770	3771-3772	3773-3774	3775-3776	3777-3778
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State		County	City	Status	Type	Category	EPA Code	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ
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ID	Agency	Type	Name	Category	Status	Established	FTEs	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824
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ID	Name	Type	Power	Voltage	Current	Power Factor	Efficiency	THD	THD-N	THD-F	THD-T	THD-L	THD-H	THD-M	THD-S	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A	THD-B	THD-C	THD-D	THD-E	THD-F	THD-G	THD-H	THD-I	THD-J	THD-K	THD-L	THD-M	THD-N	THD-O	THD-P	THD-Q	THD-R	THD-S	THD-T	THD-U	THD-V	THD-W	THD-X	THD-Y	THD-Z	THD-A
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ID	Name	Type	Category	S/N	SE	10/1/2018										10/1/2019										10/1/2020										10/1/2021										10/1/2022										10/1/2023										10/1/2024										10/1/2025										10/1/2026										10/1/2027										10/1/2028										10/1/2029										10/1/2030										10/1/2031										10/1/2032										10/1/2033										10/1/2034										10/1/2035										10/1/2036										10/1/2037										10/1/2038										10/1/2039										10/1/2040										10/1/2041										10/1/2042										10/1/2043										10/1/2044										10/1/2045										10/1/2046										10/1/2047										10/1/2048										10/1/2049										10/1/2050										10/1/2051										10/1/2052										10/1/2053										10/1/2054										10/1/2055										10/1/2056										10/1/2057										10/1/2058										10/1/2059										10/1/2060										10/1/2061										10/1/2062										10/1/2063										10/1/2064										10/1/2065										10/1/2066										10/1/2067										10/1/2068										10/1/2069										10/1/2070										10/1/2071										10/1/2072										10/1/2073										10/1/2074										10/1/2075										10/1/2076										10/1/2077										10/1/2078										10/1/2079										10/1/2080										10/1/2081										10/1/2082										10/1/2083										10/1/2084										10/1/2085										10/1/2086										10/1/2087										10/1/2088										10/1/2089										10/1/2090										10/1/2091										10/1/2092										10/1/2093										10/1/2094										10/1/2095										10/1/2096										10/1/2097										10/1/2098										10/1/2099										10/1/2100										10/1/2101										10/1/2102										10/1/2103										10/1/2104										10/1/2105										10/1/2106										10/1/2107										10/1/2108										10/1/2109										10/1/2110										10/1/2111										10/1/2112										10/1/2113										10/1/2114										10/1/2115										10/1/2116										10/1/2117										10/1/2118										10/1/2119										10/1/2120										10/1/2121										10/1/2122										10/1/2123										10/1/2124										10/1/2125										10/1/2126										10/1/2127										10/1/2128										10/1/2129										10/1/2130										10/1/2131										10/1/2132										10/1/2133										10/1/2134										10/1/2135										10/1/2136										10/1/2137										10/1/2138										10/1/2139										10/1/2140										10/1/2141										10/1/2142										10/1/2143										10/1/2144										10/1/2145										10/1/2146										10/1/2147										10/1/2148										10/1/2149										10/1/2150										10/1/2151										10/1/2152										10/1/2153										10/1/2154										10/1/2155										10/1/2156										10/1/2157										10/1/2158										10/1/2159										10/1/2160										10/1/2161										10/1/2162										10/1/2163										10/1/2164										10/1/2165										10/1/2166										10/1/2167										10/1/2168										10/1/2169										10/1/2170										10/1/2171										10/1/2172										10/1/2173										10/1/2174										10/1/2175										10/1/2176										10/1/2177										10/1/2178										10/1/2179										10/1/2180										10/1/2181										10/1/2182										10/1/2183										10/1/2184										10/1/2185										10/1/2186										10/1/2187										10/1/2188										10/1/2189										10/1/2190										10/1/2191										10/1/2192										10/1/2193										10/1/2194										10/1/2195										10/1/2196										10/1/2197										10/1/2198										10/1/2199										10/1/2200										10/1/2201										10/1/2202										10/1/2203										10/1/2204										10/1/2205										10/1/2206										10/1/2207										10/1/2208										10/1/2209										10/1/2210										10/1/2211										10/1/2212										10/1/2213										10/1/2214										10/1/2215										10/1/2216										10/1/2217										10/1/2218										10/1/2219										10/1/2220										10/1/2221										10/1/2222										10/1/2223										10/1/2224										10/1/2225										10/1/2226										10/1/2227										10/1/2228										10/1/2229										10/1/2230										10/1/2231										10/1/2232										10/1/2233										10/1/2234										10/1/2235										10/1/2236										10/1/2237										10/1/2238										10/1/2239										10/1/2240										10/1/2241										10/1/2242										10/1/2243										10/1/2244										10/1/2245										10/1/2246										10/1/2247										10/1/2248										10/1/2249										10/1/2250										10/1/2251										10/1/2252										10/1/2253										10/1/2254										10/1/2255										10/1/2256										10/1/2257										10/1/2258										10/1/2259										10/1/2260										10/1/2261										10/1/2262										10/1/2263										10/1/2264										10/1/2265										10/1/2266										10/1/2267										10/1/2268										10/1/2269										10/1/2270										10/1/2271										10/1/2272										10/1/2273										10/1/2274										10/1/2275										10/1/2276										10/1/2277										10/1/2278										10/1/2279			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Name	ID	10/15/2018	10/16/2018	10/17/2018	10/18/2018	10/19/2018	10/20/2018	10/21/2018	10/22/2018	10/23/2018	10/24/2018	10/25/2018	10/26/2018	10/27/2018	10/28/2018	10/29/2018	10/30/2018	10/31/2018	11/01/2018	11/02/2018	11/03/2018	11/04/2018	11/05/2018	11/06/2018	11/07/2018	11/08/2018	11/09/2018	11/10/2018	11/11/2018	11/12/2018	11/13/2018	11/14/2018	11/15/2018	11/16/2018	11/17/2018	11/18/2018	11/19/2018	11/20/2018	11/21/2018	11/22/2018	11/23/2018	11/24/2018	11/25/2018	11/26/2018	11/27/2018	11/28/2018	11/29/2018	11/30/2018	12/01/2018	12/02/2018	12/03/2018	12/04/2018	12/05/2018	12/06/2018	12/07/2018	12/08/2018	12/09/2018	12/10/2018	12/11/2018	12/12/2018	12/13/2018	12/14/2018	12/15/2018	12/16/2018	12/17/2018	12/18/2018	12/19/2018	12/20/2018	12/21/2018	12/22/2018	12/23/2018	12/24/2018	12/25/2018	12/26/2018	12/27/2018	12/28/2018	12/29/2018	12/30/2018	12/31/2018	1/01/2019	1/02/2019	1/03/2019	1/04/2019	1/05/2019	1/06/2019	1/07/2019	1/08/2019	1/09/2019	1/10/2019	1/11/2019	1/12/2019	1/13/2019	1/14/2019	1/15/2019	1/16/2019	1/17/2019	1/18/2019	1/19/2019	1/20/2019	1/21/2019	1/22/2019	1/23/2019	1/24/2019	1/25/2019	1/26/2019	1/27/2019	1/28/2019	1/29/2019	1/30/2019	1/31/2019	2/01/2019	2/02/2019	2/03/2019	2/04/2019	2/05/2019	2/06/2019	2/07/2019	2/08/2019	2/09/2019	2/10/2019	2/11/2019	2/12/2019	2/13/2019	2/14/2019	2/15/2019	2/16/2019	2/17/2019	2/18/2019	2/19/2019	2/20/2019	2/21/2019	2/22/2019	2/23/2019	2/24/2019	2/25/2019	2/26/2019	2/27/2019	2/28/2019	2/29/2019	3/01/2019	3/02/2019	3/03/2019	3/04/2019	3/05/2019	3/06/2019	3/07/2019	3/08/2019	3/09/2019	3/10/2019	3/11/2019	3/12/2019	3/13/2019	3/14/2019	3/15/2019	3/16/2019	3/17/2019	3/18/2019	3/19/2019	3/20/2019	3/21/2019	3/22/2019	3/23/2019	3/24/2019	3/25/2019	3/26/2019	3/27/2019	3/28/2019	3/29/2019	3/30/2019	3/31/2019	4/01/2019	4/02/2019	4/03/2019	4/04/2019	4/05/2019	4/06/2019	4/07/2019	4/08/2019	4/09/2019	4/10/2019	4/11/2019	4/12/2019	4/13/2019	4/14/2019	4/15/2019	4/16/2019	4/17/2019	4/18/2019	4/19/2019	4/20/2019	4/21/2019	4/22/2019	4/23/2019	4/24/2019	4/25/2019	4/26/2019	4/27/2019	4/28/2019	4/29/2019	4/30/2019	5/01/2019	5/02/2019	5/03/2019	5/04/2019	5/05/2019	5/06/2019	5/07/2019	5/08/2019	5/09/2019	5/10/2019	5/11/2019	5/12/2019	5/13/2019	5/14/2019	5/15/2019	5/16/2019	5/17/2019	5/18/2019	5/19/2019	5/20/2019	5/21/2019	5/22/2019	5/23/2019	5/24/2019	5/25/2019	5/26/2019	5/27/2019	5/28/2019	5/29/2019	5/30/2019	5/31/2019	6/01/2019	6/02/2019	6/03/2019	6/04/2019	6/05/2019	6/06/2019	6/07/2019	6/08/2019	6/09/2019	6/10/2019	6/11/2019	6/12/2019	6/13/2019	6/14/2019	6/15/2019	6/16/2019	6/17/2019	6/18/2019	6/19/2019	6/20/2019	6/21/2019	6/22/2019	6/23/2019	6/24/2019	6/25/2019	6/26/2019	6/27/2019	6/28/2019	6/29/2019	6/30/2019	7/01/2019	7/02/2019	7/03/2019	7/04/2019	7/05/2019	7/06/2019	7/07/2019	7/08/2019	7/09/2019	7/10/2019	7/11/2019	7/12/2019	7/13/2019	7/14/2019	7/15/2019	7/16/2019	7/17/2019	7/18/2019	7/19/2019	7/20/2019	7/21/2019	7/22/2019	7/23/2019	7/24/2019	7/25/2019	7/26/2019	7/27/2019	7/28/2019	7/29/2019	7/30/2019	7/31/2019	8/01/2019	8/02/2019	8/03/2019	8/04/2019	8/05/2019	8/06/2019	8/07/2019	8/08/2019	8/09/2019	8/10/2019	8/11/2019	8/12/2019	8/13/2019	8/14/2019	8/15/2019	8/16/2019	8/17/2019	8/18/2019	8/19/2019	8/20/2019	8/21/2019	8/22/2019	8/23/2019	8/24/2019	8/25/2019	8/26/2019	8/27/2019	8/28/2019	8/29/2019	8/30/2019	8/31/2019	9/01/2019	9/02/2019	9/03/2019	9/04/2019	9/05/2019	9/06/2019	9/07/2019	9/08/2019	9/09/2019	9/10/2019	9/11/2019	9/12/2019	9/13/2019	9/14/2019	9/15/2019	9/16/2019	9/17/2019	9/18/2019	9/19/2019	9/20/2019	9/21/2019	9/22/2019	9/23/2019	9/24/2019	9/25/2019	9/26/2019	9/27/2019	9/28/2019	9/29/2019	9/30/2019	10/01/2019	10/02/2019	10/03/2019	10/04/2019	10/05/2019	10/06/2019	10/07/2019	10/08/2019	10/09/2019	10/10/2019	10/11/2019	10/12/2019	10/13/2019	10/14/2019	10/15/2019	10/16/2019	10/17/2019	10/18/2019	10/19/2019	10/20/2019	10/21/2019	10/22/2019	10/23/2019	10/24/2019	10/25/2019	10/26/2019	10/27/2019	10/28/2019	10/29/2019	10/30/2019	10/31/2019	11/01/2019	11/02/2019	11/03/2019	11/04/2019	11/05/2019	11/06/2019	11/07/2019	11/08/2019	11/09/2019	11/10/2019	11/11/2019	11/12/2019	11/13/2019	11/14/2019	11/15/2019	11/16/2019	11/17/2019	11/18/2019	11/19/2019	11/20/2019	11/21/2019	11/22/2019	11/23/2019	11/24/2019	11/25/2019	11/26/2019	11/27/2019	11/28/2019	11/29/2019	11/30/2019	12/01/2019	12/02/2019	12/03/2019	12/04/2019	12/05/2019	12/06/2019	12/07/2019	12/08/2019	12/09/2019	12/10/2019	12/11/2019	12/12/2019	12/13/2019	12/14/2019	12/15/2019	12/16/2019	12/17/2019	12/18/2019	12/19/2019	12/20/2019	12/21/2019	12/22/2019	12/23/2019	12/24/2019	12/25/2019	12/26/2019	12/27/2019	12/28/2019	12/29/2019	12/30/2019	12/31/2019	1/01/2020	1/02/2020	1/03/2020	1/04/2020	1/05/2020	1/06/2020	1/07/2020	1/08/2020	1/09/2020	1/10/2020	1/11/2020	1/12/2020	1/13/2020	1/14/2020	1/15/2020	1/16/2020	1/17/2020	1/18/2020	1/19/2020	1/20/2020	1/21/2020	1/22/2020	1/23/2020	1/24/2020	1/25/2020	1/26/2020	1/27/2020	1/28/2020	1/29/2020	1/30/2020	1/31/2020	2/01/2020	2/02/2020	2/03/2020	2/04/2020	2/05/2020	2/06/2020	2/07/2020	2/08/2020	2/09/2020	2/10/2020	2/11/2020	2/12/2020	2/13/2020	2/14/2020	2/15/2020	2/16/2020	2/17/2020	2/18/2020	2/19/2020	2/20/2020	2/21/2020	2/22/2020	2/23/2020	2/24/2020	2/25/2020	2/26/2020	2/27/2020	2/28/2020	2/29/2020	3/01/2020	3/02/2020	3/03/2020	3/04/2020	3/05/2020	3/06/2020	3/07/2020	3/08/2020	3/09/2020	3/10/2020	3/11/2020	3/12/2020	3/13/2020	3/14/2020	3/15/2020	3/16/2020	3/17/2020	3/18/2020	3/19/2020	3/20/2020	3/21/2020	3/22/2020	3/23/2020	3/24/2020	3/25/2020	3/26/2020	3/27/2020	3/28/2020	3/29/2020	3/30/2020	3/31/2020	4/01/2020	4/02/2020	4/03/2020	4/04/2020	4/05/2020	4/06/2020	4/07/2020	4/08/2020	4/09/2020	4/10/2020	4/11/2020	4/12/2020	4/13/2020	4/14/2020	4/15/2020	4/16/2020	4/17/2020	4/18/2020	4/19/2020	4/20/2020	4/21/2020	4/22/2020	4/23/2020	4/24/2020	4/25/2020	4/26/2020	4/27/2020	4/28/2020	4/29/2020	4/30/2020	5/01/2020	5/02/2020	5/03/2020	5/04/2020	5/05/2020	5/06/2020	5/07/2020	5/08/2020	5/09/2020	5/10/2020	5/11/2020	5/12/2020	5/13/2020	5/14/2020	5/15/2020	5/16/2020	5/17/2020	5/18/2020	5/19/2020	5/20/2020	5/21/2020	5/22/2020	5/23/2020	5/24/2020	5/25/2020	5/26/2020	5/27/2020	5/28/2020	5/29/2020	5/30/2020	5/31/2020	6/01/2020	6/02/2020	6/03/2020	6/04/2020	6/05/2020	6/06/2020	6/07/2020	6/08/2020	6/09/2020	6/10/2020	6/11/2020	6/12/2020	6/13/2020	6/14/2020	6/15/2020	6/16/2020	6/17/2020	6/18/2020	6/19/2020	6/20/2020	6/21/2020	6/22/2020	6/23/2020	6/24/2020	6/25/2020	6/26/2020	6/27/2020	6/28/2020	6/29/2020	6/30/2020	7/01/2020	7/02/2020	7/03/2020	7/04/2020	7/05/2020	7/06/2020	7/07/2020	7/08/2020	7/09/2020	7/10/2020	7/11/2020	7/12/2020	7/13/2020	7/14/2020	7/15/2020	7/16/2020	7/17/2020	7/18/2020	7/19/2020	7/20/2020	7/21/2020	7/22/2020	7/23/2020	7/24/2020	7/25/2020	7/26/2020	7/27/2020	7/28/2020	7/29/2020	7/30/2020	7/31/2020	8/01/2020	8/02/2020	8/03/2020	8/04/2020	8/05/2020	8/06/2020	8/07/2020	8/08/2020	8/09/2020	8/10/2020	8/11/2020	8/12/2020	8/13/2020	8/14/2020	8/15/2020	8/16/2020	8/17/2020	8/18/2020	8/19/2020	8/20/2020	8/21/2020	8/22/2020	8/23/2020	8/24/2020	8/25/2020	8/26/2020	8/27/2020	8/28/2020	8/29/2020	8/30/2020	8/31/2020	9/01/2020	9/02/2020	9/03/2020	9/04/2020	9/05/2020	9/06/2020	9/07/2020	9/08/2020	9/09/2020	9/10/2020	9/11/2020	9/12/2020	9/13/2020	9/14/2020	9/15/2020	9/16/2020	9/17/2020	9/18/2020	9/19/2020	9/20/2020	9/21/2020	9/22/2020	9/23/2020	9/24/2020	9/25/2020	9/26/2020	9/27/2020	9/28/2020	9/29/2020	9/30/2020	10/01/2020	10/02/2020	10/03/2020	10/04/2020	10/05/2020	10/06/2020	10/07/2020	10/08/2020	10/09/2020	10/10/2020	10/11/2020	10/12/2020	10/13/2020	10/14/2020	10/15/2020	10/16/2020	10/17/2020	10/18/2020	10/19/2020	10/20/2020	10/21/2020	10/22/2020	10/23/2020	10/24/2020	10/25/2020	10/26/2020	10/27/2020	10/28/2020	10/29/2020	10/30/2020	10/31/2020	11/01/2020	11/02/2020	11/03/2020	11/04/2020	11/05/2020	11/06/2020	11/07/2020	11/08/2020	11/09/2020	11/10/2020	11/11/2020	11/12/2020	11/13/2020	11/14/2020	11/15/2020	11/16/2020	11/17/2020	11/18/2020	11/19/2020	11/20/2020	11/21/2020	11/22/2020	11/23/2020	11/24/2020	11/25/2020	11/26/2020	11/27/2020	11/28/2020	11/29/2020	11/30/2020	12/01/2020	12/02/2020	12/03/2020	12/04/2020	12/05/2020	12/06/2020	12/07/2020	12/08/2020	12/09/2020	12/10/2020	12/11/2020	12/12/2020	12/13/2020	12/14/2020	12/15/2020	12/16/2020	12/17/2020	12/18/2020	12/19/2020	12/20/2020	12/21/2020	12/22/2020	12/23/2020	12/24/2020	12/25/2020	12/26/2020	12/27/2020	12/28/2020	12/29/2020	12/30/2020	12/31/2020	1/01/2021	1/02/2021	1/03/2021	1/04/2021	1/05/2021	1/06/2021	1/07/2021	1/08/2021	1/09/2021	1/10/2021	1/11/2021	1/12/2021	1/13/2021	1/14/2021	1/15/2021	1/16/2021	1/17/2021	1/18/2021	1/19/2021	1/20/2021	1/21/2021	1/22/2021	1/23/2021	1/24/2021	1/25/2021	1/26/2021	1/27/2021	1/28/2021	1/29/2021	1/30/2021	1/31/2021	2/01/2021	2/02/2021	2/03/2021	2/04/2021	2/05/2021	2/06/2021	2/07/2021	2/08/2021	2/09/2021	2/10/2021	2/11/2021	2/12/2021	2/13/2021	2/14/2021	2/15/2021	2/16/2021	2/17/2021	2/18/2021

Attachment F

Project Execution Metrics Template

Template for Project Execution Data

Information on the Planned Project																									Information on the Completed Project									
The Project Execution Metrics Table will list all planned projects that are ongoing (i.e. in the design, development or construction stage), as well as projects that have been completed within the last three years.																																		
Planned Project DPMR/DCOR ID	Year Planned Project First Identified	Alternate DCOR ID, if applicable	Project Type (New or upgraded circuit, Substation upgrades, New Substation)	Original Expected Project First Service Date	Current Expected or Actual Service Date	Overall Project Status (Pre-execution/ Completed/ Paused/ On going/ Planned/ Solved)	Reason for Project Cancellation or Pause	Date Project is Initiated	Project Stage							Project included in any other workstream in the last 5 years?	Cost of Completed project		Expense Account for Completed Project	GNA ID	GNA Facility ID	Year Need First Identified	Was Actual Peak Load (adj. to 1-in-10) from the most recent cycle higher than the rating of the original infrastructure (Y/N)?	Was the 5-year Forecast Peak Load (adj. to 1-in-10) from the most recent cycle higher than the rating of the original infrastructure (Y/N)?										
									Project Scoping Start Date	Project Scoping End Date	Design & Engg Start Date	Design & Engg End Date	Exempts, Design Permitting & Sourcing Start Date	Exempts, Design Permitting & Sourcing End Date	Construction Start Date		Construction End Date																	
																		Yes/No							Description									
DUPR_2025_629039	2025		New or upgraded circuit	09/2026	06/2027	On-going		03/2025	02/2025	06/2025	03/2025					NA			GNA_2025_432		ED-01079	2025												
DUPR_2025_629035	2025		New or upgraded circuit	06/2026	06/2027	On-going		01/2025	02/2025	06/2025	02/2025					NA			GNA_2025_171		ED-17180	2025												
																			GNA_2025_661, GNA_2025_662, GNA_2025_666, GNA_2025_666, GNA_2025_670, GNA_2025_671, GNA_2025_673															
DUPR_2025_630444	2025		New or upgraded circuit	12/2026	09/2027	On-going		01/2025	02/2025	06/2025	01/2025					NA			GNA_2025_375		ED-18802	2025												
DUPR_2025_636039	2025		New or upgraded circuit	07/2026	06/2027	On-going		01/2025	02/2025	06/2025	01/2025					NA			GNA_2025_673		ED-18802	2025												
DUPR_2025_636061	2025		New or upgraded circuit	12/2026	06/2027	On-going		09/2025	02/2025	06/2025	05/2025					NA			GNA_2025_31, GNA_2025_63		ED-01352	2025												
DUPR_2025_640409	2025		New or upgraded circuit	12/2026	06/2027	On-going		02/2025	02/2025	06/2025	02/2025					NA			GNA_2025_62		ED-10800	2025												
DUPR_2025_644099	2025		New or upgraded circuit	06/2026	06/2027	On-going		06/2025	02/2025	06/2025						NA			GNA_2025_251		ED-00240	2025												
DUPR_2025_647055	2025		New or upgraded circuit	12/2026	02/2027	On-going		01/2025	02/2025	06/2025	01/2025					NA			GNA_2025_507		ED-15940	2025												
DUPR_2025_647071	2025		New or upgraded circuit	06/2026	06/2027	On-going		02/2025	02/2025	06/2025	02/2025					NA			GNA_2025_519		ED-16153	2025												
DUPR_2025_651642	2025		New or upgraded circuit	09/2026	06/2027	On-going		03/2025	02/2025	06/2025	03/2025					NA			GNA_2025_519		ED-16153	2025												
DUPR_2025_651648	2025		New or upgraded circuit	09/2026	06/2027	On-going		03/2025	02/2025	06/2025	03/2025					NA			GNA_2025_520		ED-16580	2025												
																			GNA_2025_521, GNA_2025_522, GNA_2025_523, GNA_2025_526															
DUPR_2025_651658	2025		New or upgraded circuit	11/2026	11/2027	On-going		09/2025	02/2025	06/2025	05/2025					NA			GNA_2025_126		ED-01356	2025												
DUPR_2025_651659	2025		New or upgraded circuit	11/2026	11/2027	On-going		09/2025	02/2025	06/2025	05/2025					NA			GNA_2025_525, GNA_2025_527		ED-09351	2025												
DUPR_2025_651668	2025		New or upgraded circuit	10/2026	06/2027	On-going		04/2025	02/2025	06/2025	04/2025					NA			GNA_2025_570		ED-02120	2025												
DUPR_2025_661876	2025		New or upgraded circuit	10/2026	06/2027	On-going		04/2025	02/2025	06/2025	04/2025					NA			GNA_2025_124		ED-00356	2025												
DUPR_2025_661871	2025		New or upgraded circuit	12/2026	06/2027	On-going		06/2025	02/2025	06/2025						NA			GNA_2025_395		ED-08800	2025												
DUPR_2025_661872	2025		New or upgraded circuit	12/2026	06/2027	On-going		02/2025	02/2025	06/2025						NA			GNA_2025_396		ED-16419	2025												
DUPR_2025_661873	2025		New or upgraded circuit	12/2026	06/2027	On-going		02/2025	02/2025	06/2025						NA			GNA_2025_407, GNA_2025_409		ED-07715	2025												
DUPR_2025_661884	2025		New or upgraded circuit	12/2026	11/2027	On-going		09/2025	02/2025	06/2025	06/2025					NA			GNA_2025_406, GNA_2025_408		ED-03405	2025												
DUPR_2025_661888	2025		New or upgraded circuit	12/2026	06/2027	On-going		02/2025	02/2025	06/2025						NA			GNA_2025_411		ED-06540	2025												
DUPR_2025_661894	2025		New or upgraded circuit	12/2026	06/2027	On-going		02/2025	02/2025	06/2025						NA			GNA_2025_413		ED-04530	2025												
DUPR_2025_680000	2025		New or upgraded circuit	10/2026	06/2027	On-going		04/2025	02/2025	06/2025	04/2025					NA			GNA_2025_397		ED-02500	2025												
DUPR_2025_722011	2025		New or upgraded circuit	06/2027	06/2027	On-going		04/2025	02/2025	06/2025	04/2025					NA			GNA_2025_224		ED-18046	2025												
DUPR_2025_722015	2025		New or upgraded circuit	06/2027	06/2027	On-going		04/2025	02/2025	06/2025	04/2025					NA			GNA_2025_295		ED-02270	2025												
DUPR_2025_722028	2025		New or upgraded circuit	06/2027	06/2027	On-going		04/2025	02/2025	06/2025	04/2025					NA			GNA_2025_299		ED-11890	2025												
DUPR_2025_722032	2025		New or upgraded circuit	06/2027	06/2027	On-going		04/2025	02/2025	06/2025	04/2025					NA			GNA_2025_305		ED-07280	2025												
DUPR_2025_722038	2025		New or upgraded circuit	06/2027	06/2027	On-going		04/2025	02/2025	06/2025	04/2025					NA			GNA_2025_300		ED-15886	2025												
DUPR_2025_722037	2025		New or upgraded circuit	06/2027	06/2027	On-going		04/2025	02/2025	06/2025	04/2025					NA			GNA_2025_301		ED-16390	2025												
																			GNA_2025_414, GNA_2025_416, GNA_2025_417, GNA_2025_418, GNA_2025_420															
DUPR_2025_722922	2025		New or upgraded circuit	06/2027	06/2027	On-going		02/2025	02/2025	06/2025	02/2025					NA			GNA_2025_419, GNA_2025_420		ED-03760	2025												
DUPR_2025_730995	2025		New or upgraded circuit	12/2027	12/2027	On-going		03/2025	02/2025	06/2025	03/2025					NA			GNA_2025_280, GNA_2025_391		ED-06233	2025												
DUPR_2025_730103	2025		New or upgraded circuit	06/2027	09/2027	On-going		02/2025	02/2025	06/2025						NA			GNA_2025_213		ED-16444	2025												
DUPR_2025_730106	2025		New or upgraded circuit	12/2027	06/2027	On-going		09/2025	02/2025	06/2025	09/2025					NA			GNA_2025_209, GNA_2025_212, GNA_2025_214		ED-09411	2025												
DUPR_2025_747088	2025		New or upgraded circuit	06/2027	12/2027	On-going		04/2025	02/2025	06/2025	04/2025					NA			GNA_2025_376		ED-03506	2025												
DUPR_2025_751242	2025		New or upgraded circuit	12/2027	08/2028	On-going		02/2025	02/2025	06/2025	02/2025					NA			GNA_2025_494, GNA_2025_496, GNA_2025_499		ED-00828	2025												
DUPR_2025_751243	2025		New or upgraded circuit	12/2027	07/2028	On-going		02/2025	02/2025	06/2025	02/2025					NA			GNA_2025_18		ED-07690	2025												
DUPR_2025_751244	2025		New or upgraded circuit	12/2027	07/2028	On-going		02/2025	02/2025	06/2025	02/2025					NA			GNA_2025_408		ED-11895	2025												
DUPR_2025_771678	2025		New or upgraded circuit	01/2027	06/2027	On-going		02/2025	02/2025	06/2025	02/2025					NA			GNA_2025_393		ED-00800	2025												
DUPR_2025_771706	2025		New or upgraded circuit	12/2027	09/2027	On-going		02/2025	02/2025	06/2025	02/2025					NA			GNA_2025_404, GNA_2025_410		ED-11895	2025												
DUPR_2025_771708	2025		New or upgraded circuit	12/2027	09/2027	On-going		02/2025	02/2025	06/2025	02/2025					NA			GNA_2025_589, GNA_2025_590, GNA_2025_593		ED-03165	2025												
DUPR_2025_771712	2025		New or upgraded circuit	12/2027	10/2027	On-going		02/2025	02/2025	06/2025	02/2025					NA			GNA_2025_537		ED-00800	2025												
DUPR_2025_771715	2025		New or upgraded circuit	12/2027	10/2027	On-going		02/2025	02/2025	06/2025	02/2025					NA			GNA_2025_563, GNA_2025_565, GNA_2025_566		ED-02120	2025												
DUPR_2025_771717	2025		New or upgraded circuit	12/2027	10/2027	On-going		02/2025	02/2025	06/2025	02/2025					NA			GNA_2025_551, GNA_2025_553		ED-12526	2025												
DUPR_2025_810206	2025		New or upgraded circuit	06/2028	06/2027	On-going		02/2025	02/2025	06/2025	02/2025					NA			GNA_2025_553		ED-16969	2025												
DUPR_2025_833063	2025		New or upgraded circuit	06/2025		On-going		01/2025	02/2025	06/2025						NA			GNA_2025_547, GNA_2025_548, GNA_2025_550		ED-04723	2025												
DUPR_2025_836046	2025		New or upgraded circuit	06/2026		On-going		06/2025	02/2025	06/2025						NA			GNA_2025_528, GNA_2025_530		ED-09518	2025												
DUPR_2025_868018	2025		New or upgraded circuit	06/2025		On-going		02/2025	02/2025	06/2025						NA			GNA_2025_398		ED-09684	2025												
DUPR_2025_722038	2025		New or upgraded circuit	06/2027		On-going		04/2025	02/2025	06/2025						NA			GNA_2025_165		ED-11496													

Planned Project DWR/DDOR ID	Year Planned Project First Identified	Alternate DDOR IDs, if applicable	Project Type (New or upgraded circuit, Substation expansion, New substation)	Original Expected In- Service Date	Current Expected or Actual In- Service Date	Overall Project Status (Pre-construction/ Completed/ Paused/ On- going/ Planned Solution)	Reason for Project Cancellation or Pause	Date Project Is Initiated	Project Stage								Project included in any other workstream in the last 5 years?		Cost of Completed project		Expense Account for Completed Project	GNA ID	GNA Facility ID	Year Need First Identified	Was Actual Peak Load (adj. to 1-in-10) from the most recent cycle higher than the rating of the original infrastructure (Y/N)?	Was the 5-year Forecast Peak Load (adj. to 1-in-10) from the most recent cycle higher than the rating of the original infrastructure (Y/N)?
									Project Scoping Start Date	Project Scoping End Date	Design & Engg Start Date	Design & Engg End Date	Exemptions, Design Permitting & Sourcing Start Date	Exemptions, Design Permitting & Sourcing End Date	Construction Start Date	Construction End Date	Yes/No	Description								
2025 DWR Plan_14	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_601	ED-01424	2025			
2025 DWR Plan_15	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_513	ED-00877	2025			
2025 DWR Plan_16	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_476	ED-00840	2025			
2025 DWR Plan_17	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_366	ED-04763	2025			
2025 DWR Plan_18	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_284	ED-04870	2025			
2025 DWR Plan_19	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_576	ED-00581	2025			
2025 DWR Plan_20	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_533	ED-00464	2025			
2025 DWR Plan_21	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_263	ED-19135	2025			
2025 DWR Plan_22	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_558	ED-14724	2025			
2025 DWR Plan_23	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_252	ED-00023	2025			
2025 DWR Plan_24	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_564	ED-02120	2025			
2025 DWR Plan_25	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_660	ED-14846	2025			
2025 DWR Plan_26	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_609	ED-14371	2025			
2025 DWR Plan_27	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_631	ED-18674	2025			
2025 DWR Plan_28	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_484	ED-18935	2025			
2025 DWR Plan_29	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_158	ED-03166	2025			
2025 DWR Plan_30	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_609	ED-07591	2025			
2025 DWR Plan_31	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_613	ED-19137	2025			
2025 DWR Plan_32	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA				GNA_2025_226	ED-18669	2025			
2025 DWR Plan_33	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA					ED-16220	2025			
2025 DWR Plan_34	2025		New or upgraded circuit	08/2026	08/2026	On-going			05/2025	06/2025							NA					ED-01933	2025			

Attachment G
DER Payments
(PUBLIC VERSION)

Southern California Edison Company's ("SCE") DER Payment Report

August 15, 2025

Subject:

Data on payments made to contracted deferral projects and all spending on contingency plans for each deferral opportunity.

Background:

Regulatory Background

As set forth in Ordering Paragraph 50 of R.14-08-013, Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework – Filing and Process Requirements, May 11, 2020 (the "May 2020 DIDF Reform Ruling"):

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 years pursuant to D.18-02-004, Ordering Paragraph 2.dd.

SCE submits this report with the 2025 GNA & DUPR Narrative filing.

SCE's DER Deferral Contracts Currently Receiving Payments

SCE has made payments on two contracted DER deferral projects, "Acorn I" and "Wildcat I." ¹ Both of these projects resulted from the 2018 Integrated Distributed Energy Resources (IDER) Incentive Pilot Solicitation. Specifically, Acorn I was contracted to defer the Newbury traditional wires project and Wildcat I was contracted to defer the Eisenhower traditional wires project. ²

¹ SCE also signed contracts for two other Acorn projects which were subsequently terminated prior to construction.

² For both Acorn and Wildcat, after the contracts were signed, subsequent distribution planning process ("DPP") cycles determined that due to a change in the load forecast, the traditional projects they were deferring were no longer needed. SCE's contract still gives SCE the right to have the units dispatched for the purpose of distribution reliability. To the extent that they can serve a distribution deferral in the future, SCE has the ability to use them for that purpose. While these projects do not currently provide a distribution service, they continue to provide resource adequacy ("RA").

Information Provided in This Report

For each of the contracts noted above, SCE provides data on payments made to contracted deferral projects and all spending on contingency plans for each deferral opportunity, as required by the May 2020 DIDF Reform Ruling.

Newbury

For the Newbury Distribution Circuit, the Contingency Spending project cost was \$ [REDACTED]. This represents the actual cost of performing design and engineering work for the traditional project, such that in the event the DER fails to be constructed, it will be possible to construct the traditional wires project prior to the date of need.

*Party Agreement	External Settle Instructions	Payment Due Date	Saved Settle Amount
12022	ACORN I ENERGY STORAGE LLC - ACH	7/23/2021	
12022	ACORN I ENERGY STORAGE LLC - ACH	8/20/2021	
12022	ACORN I ENERGY STORAGE LLC - ACH	9/20/2021	
12022	ACORN I ENERGY STORAGE LLC - ACH	10/20/2021	
12022	ACORN I ENERGY STORAGE LLC - ACH	11/22/2021	
12022	ACORN I ENERGY STORAGE LLC - ACH	12/20/2021	
12022	ACORN I ENERGY STORAGE LLC - ACH	1/20/2022	
12022	ACORN I ENERGY STORAGE LLC - ACH	2/22/2022	
12022	ACORN I ENERGY STORAGE LLC - ACH	3/21/2022	
12022	ACORN I ENERGY STORAGE LLC - ACH	4/20/2022	
12022	ACORN I ENERGY STORAGE LLC - ACH	5/20/2022	
12022	ACORN I ENERGY STORAGE LLC - ACH	6/21/2022	
12022	ACORN I ENERGY STORAGE LLC - ACH	7/20/2022	
12022	ACORN I ENERGY STORAGE LLC - ACH	8/15/2022	
12022	ACORN I ENERGY STORAGE LLC - ACH	9/20/2022	
12022	ACORN I ENERGY STORAGE LLC - ACH	10/20/2022	
12022	ACORN I ENERGY STORAGE LLC - ACH	11/21/2022	
12022	ACORN I ENERGY STORAGE LLC - ACH	12/20/2022	
12022	ACORN I ENERGY STORAGE LLC - ACH	1/20/2023	
12022	ACORN I ENERGY STORAGE LLC - ACH	2/21/2023	
12022	ACORN I ENERGY STORAGE LLC - ACH	3/20/2023	
12022	ACORN I ENERGY STORAGE LLC - ACH	4/17/2023	
12022	ACORN I ENERGY STORAGE LLC - ACH	5/22/2023	
12022	ACORN I ENERGY STORAGE LLC - ACH	6/20/2023	
12022	ACORN I ENERGY STORAGE LLC - ACH	7/20/2023	
12022	ACORN I ENERGY STORAGE LLC - ACH	8/21/2023	
12022	ACORN I ENERGY STORAGE LLC - ACH	9/20/2023	
12022	ACORN I ENERGY STORAGE LLC - ACH	10/20/2023	
12022	ACORN I ENERGY STORAGE LLC - ACH	11/20/2023	

12022	ACORN I ENERGY STORAGE LLC - ACH	12/20/2023
12022	ACORN I ENERGY STORAGE LLC - ACH	1/22/2024
12022	ACORN I ENERGY STORAGE LLC - ACH	2/20/2024
12022	ACORN I ENERGY STORAGE LLC - ACH	3/20/2024
12022	ACORN I ENERGY STORAGE LLC - ACH	4/22/2024
12022	ACORN I ENERGY STORAGE LLC - ACH	5/20/2024
12022	ACORN I ENERGY STORAGE LLC - ACH	6/25/2024
12022	ACORN I ENERGY STORAGE LLC - ACH	7/25/2024
12025	WILDCAT I ENERGY STORAGE LLC - ACH	2/14/2022
12025	WILDCAT I ENERGY STORAGE LLC - ACH	3/16/2022
12025	WILDCAT I ENERGY STORAGE LLC - ACH	4/15/2022
12025	WILDCAT I ENERGY STORAGE LLC - ACH	5/16/2022
12025	WILDCAT I ENERGY STORAGE LLC - ACH	6/16/2022
12025	WILDCAT I ENERGY STORAGE LLC - ACH	7/19/2022
12025	WILDCAT I ENERGY STORAGE LLC - ACH	8/15/2022
12025	WILDCAT I ENERGY STORAGE LLC - ACH	9/20/2022
12025	WILDCAT I ENERGY STORAGE LLC - ACH	10/21/2022
12025	WILDCAT I ENERGY STORAGE LLC - ACH	11/23/2022
12025	WILDCAT I ENERGY STORAGE LLC - ACH	12/29/2022
12025	WILDCAT I ENERGY STORAGE LLC - ACH	1/18/2023
12025	WILDCAT I ENERGY STORAGE LLC - ACH	2/15/2023
12025	WILDCAT I ENERGY STORAGE LLC - ACH	3/20/2023
12025	WILDCAT I ENERGY STORAGE LLC - ACH	4/20/2023
12025	WILDCAT I ENERGY STORAGE LLC - ACH	5/22/2023
12025	WILDCAT I ENERGY STORAGE LLC - ACH	6/20/2023
12025	WILDCAT I ENERGY STORAGE LLC - ACH	7/20/2023
12025	WILDCAT I ENERGY STORAGE LLC - ACH	8/21/2023
12025	WILDCAT I ENERGY STORAGE LLC - ACH	9/20/2023
12025	WILDCAT I ENERGY STORAGE LLC - ACH	10/20/2023
12025	WILDCAT I ENERGY STORAGE LLC - ACH	11/20/2023
12025	WILDCAT I ENERGY STORAGE LLC - ACH	12/20/2023
12025	WILDCAT I ENERGY STORAGE LLC - ACH	1/22/2024
12025	WILDCAT I ENERGY STORAGE LLC - ACH	2/20/2024
12025	WILDCAT I ENERGY STORAGE LLC - ACH	3/20/2024
12025	WILDCAT I ENERGY STORAGE LLC - ACH	4/22/2024
12025	WILDCAT I ENERGY STORAGE LLC - ACH	5/20/2024
12025	WILDCAT I ENERGY STORAGE LLC - ACH	6/25/2024
12025	WILDCAT I ENERGY STORAGE LLC - ACH	7/25/2024
12022	ACORN I ENERGY STORAGE LLC - ACH	8/20/2024
12025	WILDCAT I ENERGY STORAGE LLC - ACH	8/20/2024
12022	ACORN I ENERGY STORAGE LLC - ACH	9/20/2024

12025	WILDCAT I ENERGY STORAGE LLC - ACH	9/20/2024	
12022	ACORN I ENERGY STORAGE LLC - ACH	10/25/2024	
12025	WILDCAT I ENERGY STORAGE LLC - ACH	10/25/2024	
12022	ACORN I ENERGY STORAGE LLC - ACH	11/25/2024	
12025	WILDCAT I ENERGY STORAGE LLC - ACH	11/25/2024	
12022	ACORN I ENERGY STORAGE LLC - ACH	12/25/2024	
12025	WILDCAT I ENERGY STORAGE LLC - ACH	12/24/2024	
12022	ACORN I ENERGY STORAGE LLC - ACH	1/21/2025	
12025	WILDCAT I ENERGY STORAGE LLC - ACH	1/21/2025	
12022	ACORN I ENERGY STORAGE LLC - ACH	2/20/2025	
12025	WILDCAT I ENERGY STORAGE LLC - ACH	2/25/2025	
12022	ACORN I ENERGY STORAGE LLC - ACH	3/20/2025	
12025	WILDCAT I ENERGY STORAGE LLC - ACH	3/20/2025	
12022	ACORN I ENERGY STORAGE LLC - ACH	4/21/2025	
12025	WILDCAT I ENERGY STORAGE LLC - ACH	4/21/2025	
12022	ACORN I ENERGY STORAGE LLC - ACH	5/20/2025	
12025	WILDCAT I ENERGY STORAGE LLC - ACH	5/26/2025	
12022	ACORN I ENERGY STORAGE LLC - ACH	6/20/2025	
12025	WILDCAT I ENERGY STORAGE LLC - ACH	6/20/2025	
12022	ACORN I ENERGY STORAGE LLC - ACH	7/21/2025	
12025	WILDCAT I ENERGY STORAGE LLC - ACH	7/25/2025	