

## BEFORE THE PUBLIC UTILITIES COMMISSION OF THE

## STATE OF CALIFORNIA

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Order Instituting Rulemaking to Establish Energization Timelines.

Rulemaking 24-01-018

## SOUTHERN CALIFORNIA EDISON COMPANY'S (U 338-E) BIANNUAL ENERGIZATION REPORT PURSUANT TO DECISION 24-09-020

## **PUBLIC VERSION**

## ANNA VALDBERG ELENA KILBERG

Attorneys for SOUTHERN CALIFORNIA EDISON COMPANY

> 2244 Walnut Grove Avenue Post Office Box 800 Rosemead, California 91770 Telephone: (562) 491-2236 E-mail: Elena.Kilberg@sce.com

Dated: March 31, 2025

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## <u>SOUTHERN CALIFORNIA EDISON COMPANY'S (U 338-E) BIANNUAL</u> <u>ENERGIZATION REPORT PURSUANT TO DECISION 24-09-020</u>

In accordance with ordering paragraph 5 of Decision 24-09-020, Southern California

Edison Company (SCE) hereby submits its Biannual Energization Report (Appendix A) and

accompanying Public Reporting Data Excel Spreadsheet (Appendix A to the Report).

Respectfully submitted,

## ANNA VALDBERG ELENA KILBERG

/s/ Elena Kilberg

By: Elena Kilberg

Attorneys for SOUTHERN CALIFORNIA EDISON COMPANY

> 2244 Walnut Grove Avenue Post Office Box 800 Rosemead, California 91770 Telephone: (562) 491-2236 Facsimile: (626) 302-6693 E-mail:Elena.Kilberg@sce.com

March 31, 2025

Appendix A

SCE's March 31, 2025 Biannual Energization Report

## Southern California Edison

## March 31, 2025

## **Bi-Annual Energization Target Report**

#### **Report Summary**

Southern California Edison (SCE) has made significant efforts to address challenges in the deployment of electrical infrastructure. Over the past year, SCE has established new processes and held developer forums to communicate the importance of early project meetings and forecasting. Collaboration between internal teams and external stakeholders has been enhanced to streamline energization project execution.

For the first bi-annual reporting period, SCE utilized existing systems to track alignment with adopted energization targets which are based on utility-controlled energization steps/activities. Despite currently facing challenges in tracking granularity, particularly in distinguishing between customer-controlled, third party-controlled, and utility-controlled activities (some of which occur in parallel), as well as the pauses that occur throughout the energization process, SCE has made progress in refining data points and improving reporting accuracy.

SCE analyzed energization times for projects in Disadvantaged Communities (DAC), tribal, and non-DAC/tribal communities. DAC communities experienced shorter energization times compared to non-DAC/tribal communities, while tribal communities had slightly longer times, but this was not statistically significant.

In summary, while SCE has made efforts to align its data collection and tracking systems with adopted energization targets and new reporting requirements, further refinement and enhancement of tracking tools and processes are necessary for more complete reporting in future periods.

## Identification of Constraints to Infrastructure Deployment

The deployment of electrical infrastructure faces several constraints that can significantly impact project timelines and resource allocation. These constraints include:

- **Complex Designs**: Infrastructure projects often involve intricate designs that present significant challenges, requiring extensive coordination and problem-solving.
- **Material Procurement**: Delays in obtaining essential materials such as switches, transformers, and cables can hinder project progress.
- **Permitting Processes**: Lengthy and nuanced local Authorities-Having-Jurisdiction permitting procedures for both upstream upgrades and tariff projects can extend the timeline for project completion. As each AHJ has differing requirements and projects can require permits from multiple agencies delays are often experienced with developing

engineered traffic control plan requirements and coordination between multiple agencies i.e.- Caltrans, local AHJ, Federal jurisdiction, etc.

- **Easements and Land Rights:** Lengthy easement processes can extend the timeline for project completion
- Large Scope Projects: Projects with a large scope, i.e., requiring large loads, multiple phases, cross collaboration amongst multiple internal and external stakeholders, traversing long distances, and lengthy or complex civil needs, to name a few, can impact construction resources and overall timing, necessitating internal coordination with engineering teams on scope and budget.
- **Staffing**: Reduced staffing and backfills in planning, project management, and operations can limit the ability to mirror industry growth.
- **Customer Engagement**: Customers who do not submit all requirements early in the design process can delay project progress. Early engagement with customers and cities is crucial for improving forecasted loading and timely energization.
- **Upstream Capacity Upgrades:** In service areas with capacity constraints, upstream capacity upgrades may be required to meet the requested demand. The goal is to provide customers with timely energization of full or partial load for requests that necessitate these upgrades. Early customer engagement allows for better forecasting and system planning for requests that may trigger capacity upgrades.

## Efforts to Address Challenges

Significant efforts have been made over the past year to address these challenges:

- Increased Customer Outreach: In January 2025, to better educate customers on the newly adopted energization process, SCE posted information on <u>www.sce.com</u> about the 8-Step energization process, including customer vs. utility division of responsibility, and the adopted energization targets.
- New Processes: SCE has established new processes and held developer forums to communicate and educate the development community on the importance of early project meetings and forecasting. Additionally, through the High DER Proceeding, SCE is collaborating with stakeholders and the Commission to develop a proactive planning approach which will implement pending loads and scenario planning to better prepare for customer load growth and system needs.
- **Collaboration**: Cross-functional team leaders collaborate internally with Supply Chain/Procurement on issues related to materials such as transformers, switches, and cables. Cross-functional team leaders also interface with Engineering and external stakeholders (customers and consultants) regarding project timelines and phasing.

These initiatives aim to streamline project execution and mitigate the constraints impacting infrastructure deployment.

## DESCRIBE HOW TIMELINES ALIGN WITH ADOPTED ENERGIZATION TARGETS

For the first bi-annual reporting period beginning January 31, 2023, and ending December 31, 2024, Southern California Edison (SCE) utilized systems, tracking tools, and processes in place as of January 31, 2023, to evaluate alignment with adopted energization targets for Rules 15, 16, 29, 15/16, and 15/29.

The data collected during this reporting period is presented in two main categories: Tariff and Main Panel Upgrades (MPUs). Each of these categories is broken down into three segments: in-progress work, completed work, and canceled work. The business class categories are agricultural, commercial, residential, and Rule 29 (optional commercial electric vehicles). Please see Tables 1, 2, and 3 below for Overall Dataset Aggregate, Tariff Aggregate, and MPU Aggregate information.

| Product Type | TD Count | %    |
|--------------|----------|------|
| Tariff       | 23,950   | 27%  |
| MPU          | 65,930   | 73%  |
| Total        | 89,880   | 100% |

Table 1 – Overall Dataset Aggregation

#### Table 2 – Overall Dataset Aggregation – Tariffs Only

| Product Status | TD Count | %    |
|----------------|----------|------|
| Completed      | 5,922    | 25%  |
| In-flight      | 13,797   | 58%  |
| Cancelled      | 4,321    | 17%  |
| Total          | 23,950   | 100% |

#### Table 3 – Overall Dataset Aggregation – MPUs Only

| Product Status | TD Count | %    |
|----------------|----------|------|
| Completed      | 23,246   | 35%  |
| In-flight      | 39,479   | 60%  |
| Cancelled      | 3,205    | 5%   |
| Total          | 65,930   | 100% |

Please note that the data points utilized to collect the information for this report had to be materially revised from the data SCE initially provided during Phase 1 of the Energization Timelines OIR proceeding as part of the Joint Investor-Owned Utilities (Joint IOUs)-proposed 5 Step Energization process. The data presented in this report is based on the directives in the Commission's final Phase 1 decision and reflects the adjustment from the 5 Step Energization process. The two data sets cannot be directly compared because they were compiled using different methodologies, such as the change from proposed 5 Step Energization process to 8 Step Energization process, as well as removal of MPUs into a separate category, and not part of Rule 16.

Due to the data system limitations pre-existing the Phase 1 Decision and the retroactive nature of this initial report, SCE cannot provide a comparison against CPUC targets at this time. SCE can instead provide the following information for Steps 1-8 of Rules 15/16/29 energization processes that include time for customer- and third party-controlled activities such as permitting. Because SCE is unable to exclude non-IOU time from available project data, SCE is not able to compare its timelines for these projects to CPUC-established targets.

For example, Step 1-Customer Intake (customer controlled), Step 2-Engineering and Design (SCE controlled), and Step 3-Customer Dependencies (missing intake items and execution of outstanding requirements, i.e., payment of invoice, sign and return contract and easement documents), could overlap or create a pause in utility timelines relevant for this report. For example:

- The customer may not have provided all application requirements in the intake phase. However, SCE has enough information to move forward with a portion of required engineering and design activities, so we do so. The length of time it takes the customer to provide the missing intake items should be captured in Step 3, but this time is reflected in SCE's overall timeline and measured against our targets.
- During the engineering activities, SCE may determine that an upstream capacity project is necessary to serve the customer's load requirements. The customer project should be paused while the upstream capacity project is designed, constructed, and energized. This pause should be captured in Step 2, but instead, the full upstream project timeline is reflected in SCE's overall timeline and measured against our targets.
- The customer may submit a project as applicant design (end of Step 1). SCE provides the customer with the required information and should pause our timeline until the customer returns the applicant design for review, along with any outstanding items such as approved street improvement plans, approved address list, and the recorded tract map. The customer time should be captured in Step3, but instead the customer time is currently reflected in SCE's overall timeline and measured against our targets.

Step 3-Customer Dependencies, Step 4-Utility Dependencies, and Step 5-Customer Site Readiness, Step 6-SCE Site Dependencies have also proved challenging as these steps can occur in any order or occur all at one time. For example:

- The customer can choose to perform a portion of their site readiness activities (e.g., some excavation and installation of structures may need to occur so that paving activities can occur early in the project life cycle), then pause site activities, pay their invoice and sign contracts, then finish their site readiness activities, return the signed easement, then again pause for several months until they request their project be scheduled and energized. It is highly likely that due to our current inability to track activity/step overlaps, as well as project pauses, that time is not being fully accounted for in the correct customer or utility step.
- SCE completes our portion of the permit request paperwork and submits the request to the permitting agency in which case, the third-party processing time, which can take a significant amount of time, currently counts against SCE's overall timeline and is measured against our targets due to our tracking limitations.

While Step 7-Construction and Step 8-Service Energization Provided to the Customer, are both utility-controlled steps, they still present tracking challenges. For example,

- Time is necessary for third parties, such as cities and counties, to provide customer final inspections/panel releases currently impacts utility timelines.
- Time for the processing of traffic control permitting currently impacts utility timelines.
- Construction on a single project can occur in phases, with crews making multiple trips to the job site to complete. Currently, the full amount of time the project is scheduled, including the customer-driven pauses, is reflected in SCE's timeline.

To be clear, SCE is moving projects forward. It is the tracking of the movement into the required customer, utility and third-party categories that remains a challenge. Continued refinement and enhancement of tracking tools and processes will be necessary and are planned to achieve better alignment and more granular reporting in future reporting periods.

## INFORMATION/DATA COLLECTION IN EXISTING SYSTEMS VS. DECISION TARGETS

The Commission's 8 Step Energization process directive outlines specific targets for energization projects under Rules 15, 16, 29, 15/16, and 15/29. As of January 31, 2023, SCE utilized existing systems, tracking tools, and processes to manage infrastructure projects. As discussed above, these systems have limitations in tracking granularity, particularly in distinguishing between customer-controlled and utility-controlled activities, including the pauses that can occur that stop a project's forward progress, and the inability to account for time efficiencies gained when customer- and utility-controlled activities occur in parallel. While SCE's existing systems align (step start and end points) with the 8 Step Energization process, data collection processes in effect prior to the Final Decision did not align with how SCE would need to track the data going forward to be able to report IOU-only energization time. These inconsistencies, particularly for Rules 15, 16, and 15/16 projects, make it challenging to present a clear picture of SCE's performance during the reporting period ending December 31, 2024, relative to the energization targets adopted by the Commission in September 2024.

However, with regard to Rule 29 and Rule 15/29 projects, SCE has been manually tracking portions of the energization process for this work category. While not entirely precise for all reporting requirements, this work category more accurately captures SCE's alignment to the 8 Step Energization process and to the current targets.

Between January 31, 2023, and December 31, 2024, SCE received 239 Rule 29 applications. Of these, 20 projects have been financially completed, 13 projects have been cancelled, and 209 remain in-progress at various stages of the project lifecycle. For in-flight projects, data is based on available information and is subject to change. Cancelled projects fell out at various steps of the project lifecycle, and only available data was provided.

SCE-controlled steps for completed projects:

- Rule 29-only projects: Averaged 257 business days (374 calendar days)
- Rule 29/Rule 15 combination projects: Averaged 323 business days (470 calendar days)

Customer-controlled steps for completed projects:

- Rule 29-only projects: Averaged 313 business days (455 calendar days)
- Rule 29/Rule 15 combination projects: Averaged 311 business days (453 calendar days)

Total end-to-end cycle time:

- **Rule 29-only projects**: Averaged 360 business days (523 calendar days)
- Rule 29/Rule 15 combination projects: Averaged 362 business days (527 calendar days)

It is important to note that overlapping IOU and customer-controlled steps mean that summing the turnaround times for each step will exceed the total end-to-end turnaround time provided.

SCE estimates a 10% error rate due to overlapping tasks and additional over-reporting on the IOU Dependencies step, attributed to unavailable permitting data, as historical data was only available for 12 months. This error rate is factored into the reported turnaround times, affecting the accuracy and alignment of the project timelines.

To accurately track the eight steps, many include multiple sub-stages. For instance, during Step 2 (Engineering and Design), SCE calculates the total business days for sub-stages under IOU control, excluding time controlled by the customer, which is added to the Customer Dependencies step (Step 3). Start and end dates are provided for each step, but the turnaround time might not align with the calendar or business days between these dates.

Also, for Rule 29 projects, the utility is responsible for executing typical Rule 15 and 16 customer responsibilities including excavation and installation of ducts and structures which increases utility-controlled activities and reduces customer-controlled activities. Rule 29 projects are ratepayer funded, which reduces the customer dependency time in Step 3. Yet, even with the utility-controlled time increased, the customer-controlled time is still a significant portion of the end-to-end timeline. Future improvements to SCE's systems and tracking tools will provide a more accurate snapshot as to what is driving both the customer-controlled and utility-controlled timelines and alignment to targets.

In summary, while SCE has made efforts to align its tracking systems with the adopted energization targets, the current systems and tracking tools do not fully support the granularity required for the 8 Step Energization process. Continued refinement and enhancement of tracking tools and processes will be necessary and are planned to achieve better alignment and more accurate reporting in future periods.

## DESCRIPTION OF ESJ (ENVIRONMENTAL AND SOCIAL JUSTICE) BARRIERS

For this report, SCE analyzed the energization times for projects located in Disadvantaged Communities (DAC), tribal, and non-DAC/tribal communities. SCE is not able to identify

Underserved Communities, as the exact definition, which is necessary to extract data, is currently unknown. SCE anticipates that the Commission will confirm the definition for Underserved Communities prior to September 30, 2025, the due date for the second bi-annual report, and Underserved Community data will be analyzed and included at that time.

DAC communities were identified as those geographic areas designated as DACs by the California Environmental Protection Agency (CalEPA) for the purpose of Senate Bill (SB) 535. SCE obtained this geographic area dataset from the California Office of Environmental Health Hazard Assessment (OEHHA) website.<sup>1</sup> In 2022, CalEPA designated all Federal tribal lands as DAC communities. Therefore, the DAC category that was analyzed in this report includes all projects that were developed on tribal lands. The tribal community category is therefore a subset of the DAC category, and tribal projects are included in both the tribal community and the DAC category project count (TD Count). Tribal community projects include projects being developed by the tribe or with the tribe as a partner and projects being developed by third parties that are leasing tribal land. The OEHHA geographic area dataset was also used to identify tribal lands.

In this first report, SCE did not identify any energization barriers within ESJ communities. Upon reviewing the energization times of all completed projects sorted by community, we found that DAC communities experienced energization times that were 15 days shorter on average for the IOU-controlled portion of the process (Steps 2, 4, 6, 7, and 8) than non-DAC/tribal communities. Tribal communities experienced energization times that were six days longer. However, this is only a 5.7% difference, and as there were only 36 tribal projects included in the dataset, it does not appear that this constitutes a statistically significant difference in the energization times for tribal communities versus non-DAC/tribal communities.<sup>2</sup>

| Community Type           | TD Count | Average Length of IOU-Controlled<br>EET Steps (Business Days) |
|--------------------------|----------|---|
| Non-DAC/Tribal Community | 4,025    | 105   |
| DAC                      | 1,897    | 90  |
| Tribal Community         | 36       | 111   |

Table 4 – ESJ Community Types and Average IOU Timeline

# EFFORTS TO OVERCOME ESJ (ENVIRONMENTAL AND SOCIAL JUSTICE) BARRIERS AND DELAYS/STEPS FOR IMPROVEMENT

SCE did not identify any ESJ-specific barriers that need to be addressed at this time. SCE is focusing on improving the overall energization timeline process to decrease the time needed to complete the IOU-controlled portion of the process for all projects. As explained in the Customer Engagement and Communication Plan, SCE will engage with ESJ and Tribal communities to provide

<sup>&</sup>lt;sup>1</sup> Website: https://oehha.ca.gov/calenviroscreen/sb535; ArcGIS Dataset:

https://services1.arcgis.com/PCHfdHz4GlDNAhBb/arcgis/rest/services/SB\_535\_Disadvantaged\_Communities\_2022/FeatureServer

<sup>&</sup>lt;sup>2</sup> One-tailed and two-tailed p-value >0.05

education on energization and solicit feedback for opportunities for improvement. This should reduce delays and improve satisfaction for all communities.

## REMOVAL OF OUTLIER DATA AND REASONING FOR EXCLUSION

Of the 92,404 projects in this reporting period, SCE has removed outlier data (project level data) from the dataset due to containing inconclusive, missing, or incoherent data resulting in data discrepancies. SCE will research outlier issues, and if determined that errors were system or process challenges, we will address those issues. Overall, there were 2,524 projects that were identified as outliers and omitted from the dataset and analysis completed, representing only 3% of overall data available (see Table 5).

| -                           | -        |      |
|-----------------------------|----------|------|
| Included/Excluded Projects  | TD Count | %    |
| Included                    | 89,880   | 97%  |
| Excluded (Outliers Omitted) | 2,524    | 3%   |
| Total                       | 92,404   | 100% |

#### Table 5 – Analysis of Outliers Excluded and Impact from Overall Dataset

Of the 2,524 projects, 606 projects were Tariff projects (R15, R16, R29/45, and Combo) and 1,918 projects were MPU projects (see Table 6 below).

#### Table 6 – Outliers Removed from Dataset by Product Type

| Product Type | TD Count | %    |
|--------------|----------|------|
| Tariff       | 606      | 24%  |
| MPU          | 1,918    | 76%  |
| Total        | 2,254    | 100% |

The 606 Tariff projects identified as outliers omitted from the dataset and analysis had inconclusive or incoherent data in the "Costing Components" section of the "Data" sheets of the Excel file. Specifically, the 606 Tariff projects were identified as having a data discrepancy and omitted due to not being able to produce coherent and valid data for the following columns within the "Tariff Data Completed" sheet in the Excel file.

- Total Cost (\$\$\$) to Complete All Energization Requests (Column AL)
- Total Staffing, Labor, and Material Cost (\$\$\$ Capital and Expense) (Column AM)
- Project Costs (\$\$\$) for anything else IOU covers (Column AP)
- Actual Costs (\$\$\$) at Time of Energization (Column AT)

Table 7 below provides an overview of the type of data that was available or missing for the 4 Costing Components columns indicated above. The 606 Tariff projects omitted contained either one or multiple instances of incoherent data for one or multiple columns of the 4 Costing Component columns identified. Due to this data discrepancy, these 606 projects were omitted to ensure that the data utilized and analyzed for this report did not impact the validity of overall results.

| Outlier Criteria              | TD Count | %     |
|-------------------------------|----------|-------|
| Negative Cost Component (-\$) | 605      | 99.8% |
| Blank Cost                    | 1        | 0.2%  |
| Total                         | 606      | 100%  |

#### Table 7 – Analysis of Outliers Excluded for Tariffs

The 1,918 MPU projects identified as outliers omitted from the dataset and analysis had inconclusive or incoherent data in the "MPU Costing Components" and/or "MPU Specific End to End Data" section of the "Data" sheets of the Excel file. Specifically, the 1,918 MPU projects were identified as having a data discrepancy and omitted due to not being able to produce coherent data for the following columns within the "MPU Data" sheets in the Excel file.

- Estimated Costs (\$\$\$) at Time of Design (Column R)
- Main Panel Upgrade Initial Schedule Date (Date) (Column K)
- Timing to Complete Main Panel Upgrade (Calendar Days) (Column H)
- Timing to Complete Main Panel Upgrade (Calendar Days) (Column I)

Table 8 below provides an overview of the type of data that was inconclusive for the 1 Costing Components column and 3 MPU Specific End to End Data columns indicated above, causing the 1,918 projects to be identified as outliers and omitted. The 1,918 MPU projects omitted contained either one or multiple instances of incoherent data for one or multiple columns of the 4 MPU columns identified above. The majority of MPU projects, specifically 1,899 projects, were identified as outliers and omitted due to missing or providing inconclusive/incoherent data for the MPU Specific End to End Date (approximately 99% of all MPU projects that were omitted). Specifically, 19 MPU projects (approximately 1% of all MPU projects that were omitted), were impacted due to data discrepancies in relation to EET Data Points. Due to this data discrepancy, these 1,918 projects were omitted to ensure that the data utilized and analyzed for this report did not impact the validity of overall results.

| Outlier Criteria  | TD Count | %    |
|-------------------|----------|------|
| EET Data Point    | 1,899    | 99%  |
| Costing Component | 19       | 1%   |
| Total             | 1,918    | 100% |

## Table 8 – Analysis of Outliers Excluded for MPUs

## **REPORTING GAPS OF CURRENTLY UNAVAILABLE DATA**

Since the issuance of the Final Decision in September 2024, SCE has been hard at work updating processes and identifying data tracking solutions to comply with the new reporting requirements going forward. In this initial report, which covers a time period pre-dating the Final Decision, SCE is able to report on about 65% of the required reporting data points, utilizing information pulled from our existing systems and tracking tools. Of the remaining 42 data points (see Table 9 – Tariff Data and Table 10 - Main Panel Upgrade (MPU) Data below), SCE has scoped and estimated the following data availability and reporting dates:

- 8 Data Points, available to track 9/1/25, available to report 3/31/26
- 4 Data Points, available to track 1/01/26, available to report 9/30/26
- 5 Data points have been determined to be not applicable (N/A)

Of the 5 data points determined to be not applicable, all are related to MPU costing categories. The Commission has defined Main Panel Upgrade (MPU) work as not requiring any utility-side work, other than changing the meter. SCE accounts for this type of work as meter only functional work. To derive costs, SCE invoices the customer based on estimated meter and labor costs minus allowances, if applicable. This category of work is not financially reconciled at completion. Thus, for the 5 MPU costing categories, SCE data will reflect N/A on the data spreadsheet file.

Lastly, for the remaining 25 required data points that are identified as status to be determined (TBD), SCE continues to seek out solutions to capture this required data and anticipates updated information will be provided in the 2<sup>nd</sup> bi-annual report (9/30/25).

One of the biggest challenges SCE has faced in our efforts to provide data that accurately reflects our alignment to targets is the limitation in our existing systems with regard to separating customer and third-party activity timelines from utility timelines. SCE is working diligently to find solutions that meet the reporting requirements, do not overly burden SCE team members with manual administrative tracking activities (that take time away from the actual energization step activities), and remain prudent fiscally for rate payers.

Table 9 – TARIFF DATA

| Data Point  | Column<br>Letter | Data Sheet  | Delay Cause   | Est. Date<br>Available | Est.<br>Reportin<br>g Date |
|---|------------------|-------------|---|------------------------|----------------------------|
| AHJ (Authority<br>Having<br>Jurisdiction) for<br>permitting based<br>off Project's<br>location (AHJ)  | Н                | Tariff Data | Tracking not<br>available within<br>current systems of<br>record  | TBD                    | TBD                        |
| Total Site Capacity<br>at Time of<br>Customer's<br>Application for<br>Service (kW)  | Ι                | Tariff Data | Tracking not<br>available within<br>current systems of<br>record  | TBD                    | TBD                        |
| Total Site Capacity<br>Requested (kW)   | J                | Tariff Data | Building,<br>Renovation and<br>Project Planning<br>Portal (BRPPP)<br>launch delay                               | 09/01/25               | 03/31/26                   |
| Capacity Request<br>Category:<br><1MW,1MW to<br>2M, >2MW  | L                | Tariff Data | Building,<br>Renovation and<br>Project Planning<br>Portal (BRPPP)<br>launch delay                               | 09/01/25               | 03/31/26                   |
| Project triggered<br>for upstream<br>capacity project<br>(Yes/No)   | М                | Tariff Data | Systems do not<br>fully capture all<br>customer projects<br>that contribute to<br>specific capacity<br>upgrades | 01/01/26               | 09/30/26                   |
| Date IOU identifies<br>the need for an<br>upstream capacity<br>project and alerts<br>customer of need<br>for upstream<br>capacity project<br>(Date) | Ζ                | Tariff Data | Systems do not<br>fully capture all<br>customer projects<br>that contribute to<br>specific capacity<br>upgrades | 01/01/26               | 09/30/26                   |
| Date IOU<br>completes the<br>upstream capacity<br>project (Date)  | 0                | Tariff Data | Systems do not<br>fully capture all<br>customer projects<br>that contribute to<br>specific capacity<br>upgrades | 01/01/26               | 09/30/26                   |
| Time to complete<br>upstream capacity<br>project (Calendar<br>Days)   | Ρ                | Tariff Data | Systems do not<br>fully capture all<br>customer projects<br>that contribute to<br>specific capacity<br>upgrades | 01/01/26               | 09/30/26                   |

| Customer Desired<br>Energization Date<br>(Date)   | Q | Tariff Data | Building,<br>Renovation and<br>Project Planning<br>Portal (BRPPP)<br>launch delay | 09/01/25 | 03/31/26 |
|---|---|-------------|---|----------|----------|
| Difference from<br>Customer Desired<br>Energization Date<br>and Final<br>Energization Date<br>(Calendar Days)                         | R | Tariff Data | Building,<br>Renovation and<br>Project Planning<br>Portal (BRPPP)<br>launch delay | 09/01/25 | 03/31/26 |
| Difference from<br>Customer Desired<br>Energization Date<br>and Final<br>Energization Date<br>(Business Days)                         | S | Tariff Data | Building,<br>Renovation and<br>Project Planning<br>Portal (BRPPP)<br>launch delay | 09/01/25 | 03/31/26 |
| Did the customer<br>install additional<br>capacity to<br>support future<br>load growth? (Yes<br>or No)                                | т | Tariff Data | Tracking not<br>available within<br>current systems of<br>record                  | TBD      | TBD      |
| Identify when in<br>the energization<br>process the<br>customer<br>requested a<br>change in design<br>or scope (Date)                 | U | Tariff Data | Tracking not<br>available within<br>current systems of<br>record                  | TBD      | TBD      |
| Identify when in<br>the energization<br>process the<br>customer<br>requested a<br>change in design<br>or scope<br>(Energization Step) | V | Tariff Data | Tracking not<br>available within<br>current systems of<br>record                  | TBD      | TBD      |
| Customer<br>cancelled/delayed<br>project (as<br>needed) (Yes or<br>No)  | W | Tariff Data | Tracking not<br>available within<br>current systems of<br>record                  | TBD      | TBD      |
| Customer elected<br>to install<br>additional<br>capacity to   | х | Tariff Data | Tracking not<br>available within<br>current systems of<br>record                  | TBD      | TBD      |

| anticipate<br>associated future<br>load growth as<br>indicated on<br>customer's<br>application (Yes or<br>No)<br>Estimated timing<br>for when customer<br>anticipates<br>additional<br>capacity<br>necessary as<br>indicated on<br>customer's<br>application<br>(Date)<br>Total additional<br>kW capacity for<br>the necessary<br>future upgrade as<br>Listed on<br>customer's<br>application (kW)<br>If full energization<br>of applicant site<br>not feasible in a<br>timely manner,<br>explanation<br>were<br>installed/utilized<br>to provide the<br>applicant with<br>timely service<br>For R15/R16<br>tariffs, P16 4<br>Tariff Data<br>Tariff Data<br>Tariff Data<br>Tracking not<br>available within<br>current systems of<br>record<br>TBD<br>TBD<br>TBD<br>TBD<br>TBD<br>TBD<br>TBD<br>TBD   |                      |     |             |                    |            |     |
|---|----------------------|-----|-------------|--------------------|------------|-----|
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| not feasible in a<br>timely manner,<br>explanation<br>whether load<br>management/flexi<br>ble service options<br>were<br>installed/utilized<br>to provide the<br>applicant with<br>timely service<br>For R15/R16<br>tariffs, project was<br>delayed due to<br>customer<br>requested change<br>AJ Tariff Data<br>Tariff Data<br>Tariff Data<br>Tariff Data<br>Tracking not<br>available within<br>Current systems of<br>TBD TBD<br>TBD<br>TBD<br>TBD<br>TBD<br>TBD<br>TBD<br>TBD   | of applicant site    |     |             |                    |            |     |
| timely manner,<br>explanation<br>whether loadAATariff DataTracking not<br>available within<br>current systems of<br>recordTBDTBDmanagement/flexi<br>ble service options<br>were<br>installed/utilized<br>to provide the<br>applicant with<br>timely serviceAATariff Datacurrent systems of<br>recordTBDTBDFor R15/R16<br>tariffs, project was<br>delayed due to<br>customer<br>requested changeAJTariff DataTracking not<br>available within<br>current systems of<br>recordTBDTBD  | not feasible in a    |     |             |                    |            |     |
| explanation<br>whether load<br>management/flexiAATariff DataTracking not<br>available within<br>current systems of<br>recordTBDTBDble service options<br>were<br>installed/utilized<br>to provide the<br>applicant with<br>timely serviceAATariff DataTecordTBDTBDFor R15/R16<br>tariffs, project was<br>delayed due to<br>customer<br>requested changeAJTariff DataTracking not<br>available within<br>current systems of<br>available within<br>current systems of<br>recordTBDTBD  | timely manner,       |     |             |                    |            |     |
| whether load<br>management/flexiAATariff Dataavailable within<br>current systems of<br>recordTBDTBDble service options<br>were<br>installed/utilized<br>to provide the<br>applicant with<br>timely serviceAATariff Dataavailable within<br>current systems of<br>recordTBDTBDFor R15/R16<br>tariffs, project was<br>delayed due to<br>customerAJTariff DataTracking not<br>available within<br>current systems of<br>recordTBDTBDTariff DataTariff DataTracking not<br>available within<br>current systems of<br>recordTBDTBD   | explanation          |     |             | Tracking not       |            |     |
| management/flexi<br>ble service options<br>were<br>installed/utilized<br>to provide the<br>applicant with<br>timely serviceAATariff Datacurrent systems of<br>recordTBDTBDFor R15/R16<br>tariffs, project was<br>delayed due to<br>customerAJTariff DataTracking not<br>available within<br>current systems of<br>TBDTBDTBDTariff DataTariff DataTracking not<br>available within<br>current systems of<br>TBDTBDTBD  | whether load         |     |             | available within   |            |     |
| ble service options<br>were<br>installed/utilized<br>to provide the<br>applicant with<br>timely service<br>For R15/R16<br>tariffs, project was<br>delayed due to<br>customer<br>requested change<br>AJ Tariff Data  | management/flexi     | AA  | Tariff Data | current systems of | TBD        | TBD |
| were<br>installed/utilized<br>to provide the<br>applicant with<br>timely serviceImage: serviceImage: serviceFor R15/R16<br>tariffs, project was<br>delayed due to<br>customerImage: serviceImage: serviceAJTariff DataTracking not<br>available within<br>current systems of<br>recordTBDTBD  | ble service options  |     |             | record             |            |     |
| installed/utilized<br>to provide the<br>applicant with<br>timely service<br>For R15/R16<br>tariffs, project was<br>delayed due to<br>customer<br>requested change<br>AJ Tariff Data<br>Tracking not<br>available within<br>current systems of<br>record   | were                 |     |             |                    |            |     |
| to provide the<br>applicant with<br>timely service   Image: Constraint of the service   Image: Constraint of the service     For R15/R16<br>tariffs, project was<br>delayed due to<br>customer<br>requested change   AJ   Tariff Data     Tracking not<br>available within<br>current systems of<br>record   TBD  | installed/utilized   |     |             |                    |            |     |
| applicant with<br>timely service Image: service Image: service   For R15/R16 Image: service Image: service   tariffs, project was<br>delayed due to<br>customer Image: service Image: service   AJ Tariff Data Tracking not<br>available within<br>current systems of<br>record Image: service  | to provide the       |     |             |                    |            |     |
| timely service Image: Constraint of the service   For R15/R16 For R15/R16   tariffs, project was Tracking not   delayed due to available within   customer AJ   requested change AJ   | applicant with       |     |             |                    |            |     |
| For R15/R16     tariffs, project was     delayed due to     customer     requested change     AJ     Tariff Data     record   | timely service       |     |             |                    |            |     |
| tariffs, project was<br>delayed due to<br>customerTracking not<br>available within<br>current systems ofTBDAJTariff Datarecord  | For R15/R16          |     |             |                    |            |     |
| delayed due to Tracking not   customer AJ   requested change Tariff Data  | tariffs, project was |     |             |                    |            |     |
| customer<br>requested changeAJTariff Dataavailable within<br>current systems of<br>recordTBDTBD   | delayed due to       |     |             | Iracking not       |            |     |
| requested change AJ Tariff Data current systems of TBD TBD  | customer             | • • |             | available within   | <b>—</b> – |     |
|   | requested change     | AJ  | Iaritt Data | current systems of | IBD        | IBD |
| in design or  | in design or         |     |             | record             |            |     |
| change in project   | change in project    |     |             |                    |            |     |
| scope (Yes, No)   | scope (Yes. No)      |     |             |                    |            |     |

| For R15/R16<br>tariffs, the time<br>the project was<br>delayed due to<br>customer<br>requested change<br>in design or<br>change in project<br>scope<br>(Calendar Days) | AK | Tariff Data | Tracking not<br>available within<br>current systems of<br>record           | TBD      | TBD      |
|--|----|-------------|--|----------|----------|
| Total upstream<br>capacity project<br>cost (\$\$\$)  | AN | Tariff Data | Tracking not<br>available within<br>current systems of<br>record           | TBD      | TBD      |
| Project Costs<br>(\$\$\$) for all IOU<br>equipment for<br>upstream capacity<br>projects: Electric<br>Rule 15, Electric<br>Rule 16, and<br>Electric Rule 29/45          | AO | Tariff Data | Tracking not<br>available within<br>current systems of<br>record           | TBD      | TBD      |
| IOU assigned<br>account/project<br>manager for initial<br>application<br>(within 10 days)<br>(Yes/No)  | AV | Tariff Data | Tracking not<br>available within<br>current systems of<br>record           | TBD      | TBD      |
| Date of IOU<br>rejection of<br>application<br>(Date)   | AW | Tariff Data | Building,<br>Renovation and<br>Project Planning<br>Portal (BRPPP)<br>Delay | 09/01/25 | 03/31/26 |
| IOU reason for<br>rejection of<br>application<br>(Reason)  | AX | Tariff Data | Building,<br>Renovation and<br>Project Planning<br>Portal (BRPPP)<br>Delay | 09/01/25 | 03/31/26 |
| Energization Steps<br>Completed<br>Concurrently<br>(Energization<br>Step(s) Listed)  | СК | Tariff Data | Tracking not<br>available within<br>current systems of<br>record           | TBD      | TBD      |

| Total time for<br>Energization Steps<br>Completed<br>Concurrently<br>(Calendar Days)                                    | CL | Tariff Data | Tracking not<br>available within<br>current systems of<br>record | TBD | TBD |
|---|----|-------------|--|-----|-----|
| Total time for<br>Energization Steps<br>Completed<br>Concurrently<br>(Business Days)                                    | СМ | Tariff Data | Tracking not<br>available within<br>current systems of<br>record | TBD | TBD |
| R15/R16/R29<br>Energization<br>Reasoning as to<br>why exceeded<br>average/maximum<br>Energization Target<br>(Reasoning) | СР | Tariff Data | Tracking not<br>available within<br>current systems of<br>record | TBD | TBD |

## Table 10 – MAIN PANEL UPGRADE (MPU) DATA

| Data Point   | Column<br>Letter | Data<br>Sheet | Delay Cause  | Est. Date<br>Available | Est.<br>Reporting<br>Date |
|--|------------------|---------------|--|------------------------|---------------------------|
| Customer Desired<br>Energization Date (Date)   | В                | MPU Data      | Building,<br>Renovation and<br>Project<br>Planning Portal<br>(BRPPP) launch<br>delay | 09/01/25               | 03/31/26                  |
| AHJ (Authority Having<br>Jurisdiction) for<br>permitting based off<br>Project's location (AHJ) | E                | MPU Data      | Tracking not<br>available within<br>current<br>systems of<br>record                  | TBD                    | TBD                       |
| Size of Installed Main<br>Panel Upgrade (Amps)   | F                | MPU Data      | Tracking not<br>available within<br>current<br>systems of<br>record                  | TBD                    | TBD                       |
| Reason why upgrade was<br>cancelled and/or<br>rescheduled<br>(Reason)                          | I                | MPU Data      | Tracking not<br>available within<br>current  | TBD                    | TBD                       |

|  |   |          | systems of record   |     |     |
|--|---|----------|---|-----|-----|
| Main Panel Upgrade<br>Rescheduled Date (as<br>needed) (Date)                             | к | MPU Data | Tracking not<br>available within<br>current<br>systems of<br>record | TBD | TBD |
| Additional Time from<br>Initial Scheduled Date to<br>Rescheduled Date<br>(Calendar Days) | L | MPU Data | Tracking not<br>available within<br>current<br>systems of<br>record | TBD | TBD |
| Additional Time from<br>Initial Scheduled Date to<br>Rescheduled Date<br>(Business Days) | М | MPU Data | Tracking not<br>available within<br>current<br>systems of<br>record | TBD | TBD |
| Total Staffing, Labor, and<br>Material Cost (\$\$\$ -<br>Capital and Expense)            | N | MPU Data | Not Applicable  | N/A | N/A |
| Project Costs (\$\$\$) for<br>anything else IOU covers                                   | Ο | MPU Data | Not Applicable  | N/A | N/A |
| Total<br>Construction/Overhead<br>Costs (\$\$\$)   | Р | MPU Data | Not Applicable  | N/A | N/A |
| Actual Costs (\$\$\$) at<br>Time of Energization   | S | MPU Data | Not Applicable  | N/A | N/A |
| Difference of Estimated<br>and Actual Costs at Time<br>of Energization (\$\$\$)          | т | MPU Data | Not Applicable  | N/A | N/A |

## DATA AND REPORTING INSIGHTS

Due to current system tracking limitations, SCE is reporting on the following end use categories: Rules 15, 16, and 15/16 agricultural, commercial, residential, and Rules 29 and 15/29 dedicated commercial electric vehicle load. MPUs are delineated by DAC, Tribal, DAC/Tribal, or not applicable (N/A). While the spreadsheet is reflective as indicated above for all categories of work (in-progress, completed and canceled work), for illustrative purposes, the following tables reflect only financially COMPLETED, those projects that have both completed Step 8-Service Energization Provided to Customer, and where project costs have been financially reconciled, Tariff and Main Panel Upgrade (MPU) projects.<sup>3</sup>

| Tariff | Business Class | Sample Size | Average Cost |
|--------|----------------|-------------|--------------|
|        |                |             | per Project  |
|        | Agricultural   | 0           | N/A          |
| R15    | Commercial     | 23          | \$95,940     |
|        | Residential    | 51          | \$90,290     |
|        | Overall        | 74          | \$90,046     |

| Table 11 – Completed R | 15 Projects C | Cost Analysis b | y Business Class |
|------------------------|---------------|-----------------|------------------|
|------------------------|---------------|-----------------|------------------|

| Table 10 Cam     | plated D1C Dra | iaata Caat / | \nalvaia hv | Ducincoc |       |
|------------------|----------------|--------------|-------------|----------|-------|
| Table $12 - Com$ | ριειεά κτο Ριο | IECIS COSL F | Analysis by | DUSINESS | Class |
|                  |                |              |             |          |       |

| Tariff | Business Class | Sample Size | Average Cost |
|--------|----------------|-------------|--------------|
|        |                |             | per Project  |
|        | Agricultural   | 53          | \$18,304     |
| R16    | Commercial     | 477         | \$13,421     |
|        | Residential    | 4,494       | \$3,204      |
|        | Overall        | 5,024       | \$4,334      |

| Tariff | Business Class | Sample Size | Average Cost<br>per Project |
|--------|----------------|-------------|-----------------------------|
|        | Agricultural   | 0           | N/A                         |
| R29/45 | Commercial     | 13          | \$380,253                   |
|        | Residential    | 0           | N/A                         |
|        | Overall        | 13          | \$380,253                   |

<sup>&</sup>lt;sup>3</sup> Utilizing data from: <u>Narrative Analysis Tables sheet</u> in **Prelim Upload Data \_ EET March 2025 Report** file

<sup>&</sup>lt;sup>4</sup> Please note that Rule 29 projects are funded entirely by the rate payer, including costs for excavation/site restoration, the purchase and installation of conduits and structures, structure protection such as block walls and/or bollards, risers, rights checks, easements, and permits on the utility-side of the meter. For Rule 15, 16, and 15/16 projects these aforementioned costs are the responsibility of the customer and are unknown to the utility/do not reflect in utility-side costing data.

#### Table 14 – Completed Combo (R15 & R16) Projects Cost Analysis by Business Class

| Tariff      | Business Class | Sample Size | Average Cost<br>per Project |
|-------------|----------------|-------------|-----------------------------|
|             | Agricultural   | 40          | \$24,423                    |
| Combo       | Commercial     | 192         | \$55,015                    |
| (R15 & R16) | Residential    | 572         | \$16,479                    |
|             | Overall        | 804         | \$26,077                    |

#### Table 15 – Completed Combo (R29/45 & R15) Projects Cost Analysis by Business Class

| Tariff         | Business Class | Sample Size | Average Cost |
|----------------|----------------|-------------|--------------|
|                |                |             | per Project  |
|                | Agricultural   | 0           | N/A          |
| Combo          | Commercial     | 7           | \$72,668     |
| (R29/45 & R15) | Residential    | 0           | N/A          |
|                | Overall        | 7           | \$72,668     |

## Table 16 – Completed MPU<sup>5</sup> Projects Cost Analysis by Community Type

| Project Type | Community Type   | Sample Size | Average Cost per<br>Project |
|--------------|------------------|-------------|-----------------------------|
|              | DAC              | 6,142       | \$259                       |
|              | Tribal Community | 194         | \$239                       |
| MPU          | Both             | 4           | \$224                       |
|              | (DAC & Tribal    |             |                             |
|              | Community        |             |                             |
|              | N/A              | 16,906      | \$244                       |
|              | Overall          | 23,247      | \$248                       |

<sup>&</sup>lt;sup>5</sup> MPU projects are estimated costs, based on the average cost of the meter and associated labor. SCE does not reconcile this type of work category, and site level recorded costs are not available.

Appendix A to March 31, 2025 Biannual Energization Report

SCE PUBLIC Reporting Data

Due to the size of this appendix, the public version of this appendix can be found via this link <u>https://edisonintl.sharepoint.com/:x:/t/Public/regpublic/Ec6\_6R5g7QxOoT4PxCdHj84BuhdxpW</u> <u>p2yQQqPfVb7OOM2w</u> and will also be filed via mixed media with the Commission's Docket Office.