

PG&E'S 2021 DISTRIBUTION GRID NEEDS ASSESSMENT



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a Better California

August 16, 2021

Executive Summary

Pacific Gas and Electric Company (PG&E) hereby submits its 2021 Grid Needs Assessment (GNA) as directed by the California Public Utilities Commission's (Commission or CPUC) Decision (D.)18-02-004 and the Administrative Law Judge (ALJ) Rulings from May 7, 2019, April 13, 2020, May 11, 2020, and June 21, 2021, in the Distribution Resources Plan (DRP) Order Institute Rulemaking proceeding. This GNA is submitted to the Commission, along with PG&E's 2021 Distribution Deferral Opportunity Report (DDOR), to comply with D.18-02-004 and D.21-02-006.

The objective of the 2021 GNA is to provide transparency into the assumptions and results of PG&E's annual distribution planning process. The grid needs that are reported in this GNA submittal are limited to the forecast deficiencies associated with the four distribution services that DERs can provide as adopted in D.16-12-036, distribution capacity, voltage support, reliability (back-tie) and resiliency (micro-grid). The results of PG&E's 2021 GNA Report is used in PG&E's 2021 DDOR to identify candidate distribution deferral opportunities for consideration of cost-effective DER solutions to address identified distribution grid needs.

This report is not subject to Commission approval and will be provided to the Distribution Planning Advisory Group (DPAG) for review and comment. Specifically, this report will cover the following:

- Section 1 – Distribution Resources Plan Objectives and Background
- Section 2 – Distribution Resources Planning Assumptions
- Section 3 – Distribution Planning Regions
- Section 4 – 2021 GNA Results
- Section 5 – Conclusions

As part of this report, PG&E has identified 392 grid needs. Additional grid needs resulting from line section analysis, primarily Voltage Support and Distribution Capacity, will be provided as a supplemental filing on October 15, 2021 as approved via PG&E's Motion for Extension. The majority of grid needs are Distribution Capacity and Reliability (Back-Tie) needs and are predominately located in the Central Coast and Central Valley Distribution Planning Regions. These grid needs are included in PG&E's accompanying 2021 DDOR, which identifies candidate distribution deferral opportunities for consideration of cost-effective DER solutions to address identified distribution grid needs.

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1. Distribution Resources Plan Objectives and Background

On August 14, 2014, the California Public Utilities Commission (CPUC or Commission) instituted Rulemaking (R.) 14-08-013 to establish policies, procedures, and rules to guide the California investor-owned utilities (IOU) in developing their Distribution Resources Plan (DRP) proposals. This rulemaking also established new policies to evaluate the IOUs' existing and future electric distribution infrastructure and planning procedures with respect to incorporating Distributed Energy Resources (DER) into the planning and operations of their electric distribution systems.

In July 2015, California IOUs each submitted their respective DRP proposals to the Commission. The Commission organized the review of the DRP filing content into three tracks: Track 1 – Tools and Methodologies, Track 2 – Field Demonstration Projects; and Track 3 – Policy Issues. Various DRP working group meetings and workshops were held to inform the Commission and stakeholders, which ultimately led to several decisions in R.14-08-013.

In February 2018, the Commission issued Decision (D.) 18-02-004 on Track 3 Policy Issues, sub-track 1 (Growth Scenarios) and sub-track 3 (Distribution Investment and Deferral Process). This decision adopted the Distribution Investment Deferral Framework (DIDF) and directed the IOUs to file a Grid Needs Assessment (GNA) by June 1 of each year and a Distribution Deferral Opportunity Report (DDOR) by September 1 of each year.¹ The GNA, as adopted by D.18-02-004, limits reported grid needs to four types of forecasted circuit level system deficiencies associated with the four distribution services that DERs can provide, as adopted in D.16-12-036: capacity, voltage support, reliability (back-tie) and resiliency (micro-grid).

In May 2019, the assigned Administrative Law Judge (ALJ) issued a ruling modifying the DIDF process and updating the date upon which the IOUs submit the GNA and DDOR to August 15 of each year.²

In April 2020, the assigned ALJ issued a ruling modifying the DIDF process and filings with respect to the Independent Professional Engineer (IPE) scope of work. This ruling also updated the 2020-2021 DIDF cycle schedule and defines the DIDF cycle to start on January 1 of each year and concludes July 31 the following year.

In May 2020, the assigned ALJ issued a ruling modifying the DIDF process. This ruling includes process changes to approval for the Integrated Energy Policy Report (IEPR) dataset used for forecasting, requests for certain datasets to be hosted on the DRP Data Portals, value stacking that may result in deferral projects that exceed the cost

¹ D.18-02-004, OP 2.d.

² May 7, 2019 Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework Process, p. 9.

cap, changes to how Locational Net Benefit Analysis (LNBA) data is presented, and recommendations for potential 2021-2022 DIDF cycle reforms.

In June 2021³, the assigned ALJ issued a ruling on recommended reforms to the DIDF process and revisions to some previous reforms to align with requirements adopted by D. 21-02-006.

On August 10, 2021, PG&E's Motion for Extension of time to File Limited Portions of the Grid Needs Assessment, Distribution Deferral Opportunity Report, and Corresponding Publication to the Data Portal was approved. PG&E will publish a Supplemental GNA and DDOR Report on October 15, 2021 with line section grid needs and planned investments and publish this corresponding date on the DRP Data Portal by October 30, 2021.

This report fulfills the requirement associated with the GNA and serves as an annual report that is not subject to Commission approval, as determined by D.18-02-004, "as to not subject the IOUs' funding and investment decisions to additional scrutiny outside of the GRC."⁴

1.1 Objectives of the Distribution Grid Needs Assessment

The objective of the GNA is to provide transparency into the assumptions and results of the distribution planning process that yield the Candidate Deferral Opportunities shortlist, propose grid modernization investments, and proactively host capacity upgrades proposed to accommodate forecast DER growth. PG&E's GNA presents data available regarding PG&E's projected distribution grid needs over a five--year planning horizon.⁵

1.2 Regulatory Timelines Associated with the GNA and DIDF

The regulatory timelines associated with GNA, DDOR, Competitive Solicitations, and Pilots were specified in the June 2021 ALJ Ruling.⁶ An abridged version of the schedule is depicted in Table 1 of the accompanying DDOR.

³ June 21, 2021, Administrative Law Judge's Ruling on recommended reforms for the Distribution Investment Deferral Framework Process

⁴ D.18-03-023, Decision on Track 3 Policy Issues, Sub-Track 2 (Grid Modernization), p. 18.

⁵ Needs for line segments and Volt/Volt-Ampere Reactive (Volt/Var) requirements are only identified for the time horizon for which they are forecast (a three-year period) as specified in ALJ Ruling, 2020 p. 6. PG&E applies a 10-year planning horizon for Pre-Application Project needs (although no Pre-Application Projects were identified in PG&E's 2021 DDOR).

⁶ June 21, 2021, Administrative Law Judge's Ruling on recommended reforms for the Distribution Investment Deferral Framework Process, pp. 11-12

2. PG&E's Distribution Resources Planning Assumptions

The following sections describe the study methodology and assumptions used to forecast and identify distribution grid needs in PG&E's 2021 GNA submittal. These assumptions include distribution planning horizon studied, load forecast assumptions, DER growth forecast assumptions, distribution operational switching/load transfer assumptions, and the technical criteria for identifying grid needs in the GNA.

2.1 Grid Needs Assessment Scope

The scope of this report is as in D.18-02-004, with modifications to the GNA requirements according to the R.14-08-013 May 2019 ALJ Ruling⁷ and the May 2020 ALJ Ruling.⁸ PG&E's 2021 GNA includes substation/bank, feeder, and line section needs.⁹ As adopted in D.18-02-004, grid needs that are reported in this GNA submittal are limited to the forecast deficiencies associated with the four distribution services that DERs can provide as adopted in D.16-12-036, which are distribution capacity, voltage support, reliability (back--tie) and resiliency (micro-grid).

The following definitions for the key distribution services that DERs can provide were adopted by D.16-12-036, *Decision Addressing Competitive Solicitation Framework and Utility Regulatory Incentive Pilot*, issued December 22, 2016:

1. Distribution Capacity services are load-modifying or supply services that DERs provide via the dispatch of power output for generators or reduction in load that is capable of reliably and consistently reducing net loading on desired distribution infrastructure.
2. Voltage Support services are substation and/or feeder level dynamic voltage management services provided by an individual resource and/or aggregated resources capable of dynamically correcting excursions outside voltage limits as well as supporting conservation voltage reduction strategies in coordination with utility voltage/reactive power control systems.
3. Reliability (back-tie) services are load-modifying or supply service capable of improving local distribution reliability and/or resiliency. Specifically, this service provides a fast reconnection and availability of excess reserves to reduce demand when restoring customers during abnormal configurations; and
4. Resiliency (micro-grid) services are load-modifying or supply services capable of improving local distribution reliability and/or resiliency. This service provides a

⁷ May 7, 2019, Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework Process, pp. A1-A2.

⁸ May 11, 2020, Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework—Filing and Process Requirements, Attachment A (subsequently revised on June 12, 2020), pp. 89-98.

⁹ Line Section needs will be provided as a supplemental filing on October 15, 2021.

fast reconnection and availability of excess reserves to reduce demand when restoring customers during abnormal configurations.

Examples of the distribution services that DERs can provide are provided in Appendix B.

2.2 PG&E's Distribution Resources Planning Horizon

To align with the circuit-level planning assumption requirements provided in D.18-02-004 Section 3.4.1.1, PG&E used a five-year forecast as the study horizon for identifying substation and feeder grid needs. For the 2021 GNA submittal, PG&E provides the assessment for the five-year planning horizon for substation and feeders for the years 2021 through 2025. PG&E applies a 10-year planning horizon for Pre-Application Project needs (although no Pre-Application Projects were identified in PG&E's 2021 DDOR). PG&E identifies line section Capacity and Volt/Var needs for a three-year period, and PG&E's 2021 GNA submittal therefore includes needs for line sections for the years 2021 through 2023.¹⁰

2.3 PG&E's Distribution System Load Forecast Assumptions

PG&E's load growth forecast begins with the most recent approved California Energy Commission (CEC) PG&E Transmission Access Charge (TAC) area Peak and Energy Forecast: Mid Baseline Growth Forecast. The CEC 2019 IEPR forecast was used for the 2021 GNA as shown in Table 1.

Table 1: The CEC PGE TAC Peak Forecasts¹¹

PGE TAC Peak and Energy Forecasts: CED 2019 Forecast, Mid Baseline-Mid AAE													
Coincident Peak 1 in 2 (MW)		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	Peak End Use Consumption (traditional baseline end use load plus electrification and climate change impacts)	21874	21993	21980	22115	22299	22514	22722	22934	23132	23330	23507	23693
2		28	39	51	64	76	87	97	104	111	118	124	132
3	1 Includes LDEVs	0	0	1	1	1	1	1	1	1	2	2	3
4	1 Includes Electric Buses	0	0	0	0	0	0	0	1	2	4	7	11
5	1 Includes Other Medium/Heavy-Duty EVs	5	12	19	26	34	42	51	59	68	78	84	90
6	1 Includes Other Electrification	11	22	33	45	56	68	80	92	105	119	131	144
7	1 Includes Incremental Climate Change Impacts	1684	1655	1610	1585	1572	1565	1560	1555	1549	1543	1534	1527
8	Estimated Losses	23558	23648	23590	23700	23871	24079	24282	24489	24681	24873	25042	25219
9	Gross Generation for Peak End Use Consumption (1 plus 7)	3353	3790	4270	4684	5016	5303	5571	5834	6097	6364	6633	6906
10	Self-Generation Corresponding to Peak End Use Consumption	2361	2792	3272	3686	4017	4304	4571	4834	5097	5363	5632	5904
11	3 Includes Photovoltaic	397	937	1396	1936	2476	3016	3556	4096	4636	5176	5716	6256
12	3 Includes Other Private Generation	1	1	2	3	3	4	5	6	7	8	9	10
13	3 Includes Storage	16	32	27	27	27	27	27	27	27	27	27	27
14	Load-Modifying Demand Response	0	0	0	0	0	0	0	0	0	0	0	0
15	13 Includes Non-Event DR	16	32	27	27	27	27	27	27	27	27	27	27
16	13 Includes Event-Based DR	16	32	27	27	27	27	27	27	27	27	27	27
17	Baseline Net Load Corresponding to Peak End Consumption (8 minus 9 minus 13)*	20181	19827	19293	18989	18828	18749	18684	18628	18556	18482	18381	18286
18	Peak Shift Impact, Baseline Forecast	596	769	1004	1291	1523	1788	1998	2061	2312	2595	2784	3026
19	Baseline Net System Peak (18 plus 17)	20779	20596	20297	20280	20351	20467	20582	20710	20868	21077	21166	21312
20	AAEE Savings Corresponding to Peak End Use Consumption (plus losses)	0	108	198	298	428	545	668	783	893	999	1103	1208
21	Managed Net Load Corresponding to Peak End Consumption (16 minus 19)*	20199	19751	19122	18716	18426	18227	18043	17872	17690	17511	17305	17105
22	Peak Shift Impact, Managed Forecast	580	735	979	1265	1496	1692	1848	1905	2147	2377	2560	2795
23	Managed Net System Peak (21 plus 22)	20779	20486	20100	19983	19923	19919	19908	20067	20137	20287	20266	20391

* This is the "traditional" (no peak shift) net peak estimate

¹⁰ May 7, 2019, Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework Process, p. 6.

¹¹ 2019 the load modifier wasn't posted to CEC's website. CEC 2019 IEPR forecast files can be found by opening up 'California Energy Demand 2020-2030 Revised Forecast' under this link <https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2019-integrated-energy-policy-report/2019-iepr>

Transmission-connected load growth and known new distribution loads are deducted from the CEC system load growth forecast.¹² The resultant growth is distributed out by customer class (residential, industrial, commercial, and agricultural) and is then allocated to PG&E's distribution feeders using geospatial analysis. PG&E uses a 1-in-10-year (90th percentile of high loading) weather event forecast regression curve as the basis for making decisions regarding planned capital upgrades and permanent load transfers.

Table 2 reflects the CEC 2019 IEPR Scenarios for 2021 GNA shared at the 2020 Distribution Forecasting Working Group¹³, and approved by Energy Division.¹⁴

Table 2: CEC 2019 IEPR Scenarios for 2021 GNA/DDOR

		Calendar Year 2020-2021		
		2021 GNA/DDOR		
		SCE	PG&E	SDG&E
	IEPR Vintage	2019 IEPR	2019 IEPR	2019 IEPR
Scenario ⁶	Solar PV	Mid - Mid	Mid - Mid	Mid - Mid
	Energy Storage	Mid - Mid	Mid - Mid	Mid - Mid
	Electric Vehicles ⁷	Mid - Mid	Mid - Mid	Mid - Mid
	Energy Efficiency	Mid - Low	Mid - Low	Mid - Low
	Load Modifying Demand Response	Mid - Mid	Mid - Mid	Mid - Mid
	Load	Mid - Mid	Mid - Mid	Mid - Mid

2.4 PG&E's Distribution System DER Growth Forecast Assumptions

Separate from load growth, PG&E has incorporated DER adoption into its distribution bank and feeder forecast assumptions. This is accomplished for residential photovoltaics (PV), retail non-residential PV, energy efficiency for different customer classes, electric vehicles (EV), energy storage charge and discharge, and load

¹² Known new distribution loads are deducted from the systemwide forecast so that they can be added back in as local new load adjustments while maintaining consistency with the CEC system-level forecast.

¹³ 2020 DFWG Joint Utilities Presentation, presented at Distribution Forecasting Working Group Meeting on May 21, 2020, p. 46

¹⁴ July 27, 2020, Joint Utilities (SCE, SDG&E and PG&E) Letter to Energy Division seeking approval of the 2020 GNA and DDOR, and 2021 GNA and DDOR

modifying demand response.¹⁵ The starting point for developing these feeder level DER growth forecasts is the CEC's California Energy Demand (CED) forecast that is completed at the systemwide level.

Staying consistent with the CED forecast, the systemwide incremental megawatt (MW) capacity by DER technology type is allocated to the feeders based on allocation methodologies specific to the DER types. Variables used to allocate incremental DER capacity geospatially include consumption by customer class, amount of generation by feeder, historical PV adoption by zip code, the s-curve trending model, observed Distributed Generation (DG) penetration level, daily peak diversity factors, weather zones, and many other factors specific for each type of DER.¹⁶ Consistent with the Assigned Commissioner's Ruling on the adoption of DERs Growth Scenarios issued August 9, 2017, and the assigned ALJ's Ruling on the Distribution Working Group Progress Report issued August 1, 2018, PG&E's Distribution System DER Growth Assumptions utilize:

- CED Update 2019 Mid Baseline Photovoltaic Generation
- CED Update 2019 Mid Baseline Energy Storage
- CED Update 2019 Mid Baseline EVs
- CED Update 2019 Mid Baseline-Low Energy Efficiency
- CED Update 2019 Mid Baseline LMDR

A flowchart of the process used to disaggregate the system-level DER forecasts to feeders can be found in Appendix C. A detailed summary of PG&E's substation bank and feeder DER forecasts that were utilized for this GNA are included in Appendices D and E.

2.5 Methodology for Substations and Feeders

PG&E uses the LoadSEER Geographical Information System (GIS) geo-spatial forecasting program, created by Integral Analytics, for modeling substation and feeder demand forecasts and identifying grid needs. This program uses satellite imagery and proprietary data analytics to score each acre in PG&E's territory for the likelihood of increased load by customer class. This GIS model also uses historical land aerial imagery to help determine expansion trends that have occurred within specific areas and takes this information into account for the acre scoring analysis. The spatial forecasting model is enhanced by utilizing an energy consumption model that is weather normalized and includes economic variables. After area scores are determined, the geospatial program then allocates the CEC customer class load growth projections to

¹⁵ Load Modifying Demand Response reshapes or reduces the net load curve as opposed to Supply Resource Demand Response which is integrated into the California Independent System Operator (CAISO) energy markets.

¹⁶ PG&E's DER Growth Forecast Assumptions are subject to updating and revision on an annual basis in accordance with distribution planning criteria and guidance provided by the Commission.

each parcel and maps the load growth to feeders based on closest proximity. The output of the geo-spatial program is an annual PG&E peak MW growth by feeder, by customer class for the next 10 years. This growth is then uploaded into the LoadSEER Forecast Integration Tool (LoadSEER FIT) forecasting program.

LoadSEER FIT uses customer-class load shapes to turn the system peak growth amount into a 576-hour¹⁷ load shape that can then be applied to the feeder or bank load shape. LoadSEER FIT creates two forecasts that can be compared: (1) a geospatial forecast derived from CEC system growth; and (2) a regression forecast based on multi-variable analysis and fit with historical recorded loads. LoadSEER FIT's regression methodology performs a multivariable regression to forecast the next 10 years of peak loading on distribution substation banks and feeders. Economic variables and temperature are compared against historic bank and feeder peak loads. With this comparison, the most relevant group of economic variables is selected for each bank and feeder. If there are no variables that have a reasonable fit then a flat, or no growth, regression is applied.

The creation of both geo-spatial load forecasts and regression forecasts provide PG&E's electric distribution planning engineers with two different yet statistically valid forecasts. If the results of both forecasts are similar, they provide PG&E's electric distribution planning engineers with greater confidence in the quality of both forecasts. Otherwise, the electric distribution planning engineers are directed to select the geo-spatial forecast results derived from CEC load forecast. If the geo-spatial forecast is not supported by historic loads and local knowledge, LoadSEER has the capability of creating a forecast that is a blend of geo-spatial and regression forecasts. Whenever a blended forecast is used, justification for the blending must be recorded in LoadSEER and approved by a PG&E senior level distribution planning engineer.

After the 10-year load forecasts are created in LoadSEER FIT, the distribution planning engineers review known new loads which are anticipated based on specific local information. These new load adjustments are evaluated to determine if they are covered by existing bank or feeder growth. If the new load adjustments are smaller than the forecast growth for the year that the new service application comes online, then it is assumed the forecast load for that year already embeds the new service application, and the adjustment is disabled. If the new load adjustment exceeds the growth forecast in the year planned but does not exceed the 10-year total growth forecast, then the forecast growth is shifted forward in time to cover the new load adjustment. If a new business load is larger than the forecast 10-year growth, then the load forecast is increased to accommodate the new peak load.

¹⁷ This represents hourly loads for each month for both a typical weekday and weekend day.

As an additional step to the forecast process, PG&E's electric distribution planning engineers validate and adjust historical peak loads for distribution substation transformer banks and feeders within their local areas to establish a starting point for distribution loading projections.

The following guidelines for verifying and modifying historical loads are typically followed:

- Bank and feeder peak loads are obtained through either the Supervisory Control and Data Acquisition historian system or monthly recorded substation metering data. Peak demand (MW) for banks as well as maximum current loading (amperes) for feeders are recorded along with peak date and time.
- PG&E's electric distribution planning engineers compare recorded peak load information with adjacent days' peak load information to assess whether an unusually high or low load occurred during a planned or unplanned switching condition. Distribution Operations switching log information is reviewed to confirm the timing of the switching operations that create abnormal configurations and the feeders impacted.
- Peak loads on feeders coincident with temporary switched loads are adjusted because loading under temporary switching conditions is not relevant for forecasting normal peak loads and may lead to double counting of loads. If a peak load is recorded after a newly executed permanent load transfer, then the previous historical loads will be automatically adjusted in LoadSEER to maintain the present feeder configuration when analyzing historic load growth on the feeder.

Historical substation bank and feeder peak loads are adjusted, if necessary, to account for the largest DG facility served by a bank or feeder being offline at peak; also known as N-1 scenario planning. Multiple generators on the same feeder may be grouped into an N-1 scenario if they have a reasonable risk of all being off-line at the same time, such as hydro facilities on the same water source.

A detailed summary of PG&E's substation bank and feeder peak demand forecasts that were utilized for this GNA are included in Appendix E.

2.6 Methodology for Line Sections

PG&E uses the CYME Power Engineering Software for modeling line section demand forecasts and identifying line section needs. The feeder peak demand growth is applied to the corresponding feeder line sections over a three-year period as described in Section 2.2. Only the circuit segments for which the peak needs are identified are listed, rather than all line segments, in PG&E's 2021 GNA.

2.7 Methodology for Voltage Support Needs

Voltage Support needs are identified using CYME Power Engineering Software and three-year forecast as described for capacity planning for line sections (see Section 2.6). As part of the annual distribution planning studies, PG&E forecasts voltage on all energized primary nodes for nearly every feeder for up to three years. PG&E identifies Voltage Support needs based on exceedance of Rule 2 voltage limits under normal operating conditions.¹⁸ To forecast Rule 2 voltage issues, PG&E conducts power flow studies assuming a 1-in-10-year load under normal feeder operating conditions. Since these planning studies are conducted under peak loading conditions, most if not all voltage issues materialize as voltage falling under the 5% nominal voltage Rule 2 band due to excessive voltage drops from the distribution system during high loading conditions or due to incorrect device settings for the forecasted load. Since simulated voltage results are provided for nodes on the distribution primary, an assumed voltage drop on the secondary is needed to define the primary lower limit. Depending on whether a circuit is rural or urban, slightly different secondary voltage drops are assumed.

2.8 Methodology for Reliability (Back-tie) Needs

Reliability (back-tie) services are defined in terms of the emergency capacity deficiency after a bank or feeder loss (i.e., N-1 Scenario). When a forced or a planned outage occurs, customers will experience a loss of electrical service. If the outage occurs upstream of a sectionalizing device and there is a downstream open circuit tie, then the upstream device is opened, the downstream tie's switch is closed, and service is restored to customers on the non-faulted areas of the feeder. An example is provided in Appendix B.

For PG&E's 2021 GNA, reliability (back-tie) grid needs are identified in the form of emergency bank/feeder capacity needs. Typically, an N-1 contingency study is conducted for each bank/feeder where that bank/feeder experiences an outage and the customers it normally serves need to be switched over to adjacent feeders for temporary service restoration. For a bank N-1 contingency scenario, once these customers have been restored by these temporary feeds, it is then assumed that a mobile transformer can be transported, installed in place of the failed bank, and have its capacity used to pick up the previously switched customers within the 24-hour period. These N-1 scenarios are studied under peak loading conditions. Reliability back-tie needs are then defined to provide adequate emergency capacity to handle the N-1 load for up to 24 hours.

¹⁸ PG&E Electric Rule No. 2, https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_RULES_2.pdf

2.9 PG&E's Load Transfers and Switching Assumptions

PG&E's 2021 GNA load forecast includes the impact of future planned load transfers and switching operations that do not require a capacity project. The planned load transfers and switching operations are used to balance the load between feeders and banks. Typically, planned load transfers and switching operations, which are utility industry common best practices, are the lowest cost alternatives that take advantage of available existing back-tie interconnections and capacity on adjacent distribution feeders and banks.

PG&E's 2021 GNA only includes identified grid needs that require a capacity project to either directly mitigate a need or to enable distribution switching and load transfers that mitigate the need.

2.10 Customer Confidentiality

In order to respect and protect customer privacy PG&E follows aggregation and anonymization rules, the primary of which is referred to as the 15/15 Rule. When releasing aggregated non-residential customer usage data, the sample population must be more than 15 customers and no single customer should account for more than 15% of usage at any given time. For residential customers, the minimum requirements are at least 100 customers within the sample. Areas that do not meet these requirements will be listed in this report as Customer Confidential or CC.¹⁹

2.11 DRP Tools

The DRP has led to the creation and use of new tools and the ongoing analysis and publication of distribution data. The scale of the data and analysis requires specific and customized tools to process and promote data quality and accuracy. Therefore, PG&E plans to make upgrades to existing planning tools, including CYME, a tool used by PG&E engineers to model power flows on the distribution grid, study scenarios, and plan grid reconfigurations or upgrades, and LoadSEER, the Company's core load forecasting tool. The functionalities include:

- Scenario Planning – Studying distribution system impacts across various forecast and planning scenarios.
- Load Forecasting Enhancements – Forecasting load more granularly, at the line section level, and performing short-term load forecasts for DER dispatch.
- Tools Integration – Eliminating manual processes by automating the integration of various distribution planning tools.

¹⁹ Redacted data is marked "CUSTOMER CONFIDENTIAL" or "CC" or Grey Shaded where data violates the 15-15 customer privacy rule. This Rule was established in the Direct Access Proceeding via Decision (D.) 97-10-031.

- Report Process Management – Automating the process and creation of Distribution Investment Deferral Framework (DIDF) reports.

3. Distribution Planning Regions

The PG&E distribution service area stretches from Eureka in Northern California to Bakersfield in the south, and from the Pacific Ocean in the west to the Sierra Nevada in the east. It provides service to 5.5 million electric customer accounts over 107,100 circuit miles of electric distribution lines. PG&E divided the distribution service area into four geographically defined Distribution Planning Regions (DPR) for this GNA. These regions are: (1) Bay Area; (2) Central Coast, (3) Central Valley; and (4) Northern.²⁰ Each region aggregates a collection of PG&E operating divisions, as indicated in the DPR area descriptions.

²⁰ PG&E is moving to a regional service model as outlined in its Chapter 11 Plan of Reorganization, and those changes will be incorporated into future GNAs once approved by CPUC.

4. 2021 GNA Results

The GNA results are summarized below by the four distribution service types: distribution capacity, voltage support, reliability (back-tie) and resiliency. For each of the four service types, the GNA results are further categorized by whether the need is at the substation (bank), feeder, or line section. Complete GNA results are included in the Appendices. Additional Grid Needs and associated Planned Investments resulting from line section analysis will be provided as a supplemental filing on October 15, 2021 as approved in PG&E's Motion for Extension of time (dated August 10, 2021).

In total, there are 392 needs included in PG&E's 2021 GNA. Table 3 summarizes the grid needs by DPR and by service type. Most grid needs are Distribution Capacity and Reliability (Back-Tie) needs. The grid needs are predominately located in the Central Coast and Central Valley DPRs. Table 4 summarizes the grid needs by service type and by facility type (substation/bank, feeder, or line section). Multiple grid needs may be related and can be solved by a single Planned Investment. Table 5 summarizes the grid needs by Anticipated Need Date. 367 grid needs have an Anticipated Need Date within the next three years, and 25 grid needs have an Anticipated Need Date of 2024 or later.

Table 3: Summary of Grid Needs by Distribution Service Type and Distribution Planning Region

Distribution Planning Region	Distribution Service				Total
	Distribution Capacity*	Voltage Support*	Reliability (Back-Tie) *	Resiliency (Microgrid)	
Bay Area	55	0	6	7	68
Central Coast	99	0	7	12	118
Central Valley	137	2	5	1	145
Northern	54	1	6	0	61
Totals	345	3	24	20	392

*Additional Grid Needs and associated Planned Investments resulting from line section analysis will be provided as a supplemental filing on October 15, 2021

Table 4: Summary of Grid Needs by Distribution Service Type and Facility Type

Facility Type	Distribution Service				Total
	Distribution Capacity*	Voltage Support*	Reliability (Back-Tie) *	Resiliency (Microgrid)	
Substation /Bank	121	0	6	2	129
Feeder	224	0	7	18	249
Distribution Line*	0	3	11	0	14
Totals	345	3	24	20	392

*Additional Grid Needs and associated Planned Investments resulting from line section analysis will be provided as a supplemental filing on October 15, 2021

Table 5: Summary of Grid Needs by Anticipated Need Date

Anticipated Need Date					Total
2021	2022	2023	2024	>2025	
276	66	25	17	8	392

4.1 GNA Capacity Needs

Distribution Capacity services are load-modifying or supply services that DERs provide via the dispatch of power output for generators or reduction in load that is capable of reliably and consistently reducing net loading on desired distribution infrastructure.

In total, there are 345 substation, feeder, and distribution line segment capacity needs. Table 6 summarizes the capacity needs by DPR and by facility type. The needs are predominately located in the Central Coast and Central Valley DPRs. Table 7 summarizes the capacity needs by Anticipated Need Date. 322 capacity needs have an Anticipated Need Date within the next three years, and 23 capacity needs have an Anticipated Need Date of 2024 or later.

Table 6: Summary of Capacity Grid Needs by Facility Type and Distribution Planning Region

Distribution Planning Region	Facility Type			Total
	Substation / Bank*	Feeder*	Distribution Line*	
Bay Area	13	42	0	55
Central Coast	37	62	0	99
Central Valley	48	89	0	137
Northern	23	31	0	54
Totals	121	224	0	345

*Additional Grid Needs and associated Planned Investments resulting from line section analysis will be provided as a supplemental filing on October 15, 2021

Table 7: Summary of Capacity Grid Needs by Anticipated Need Date

Anticipated Need Date					Total
2021	2022	2023	2024	2025	
231	66	25	17	6	345

Within the four distribution services, PG&E has identified two Distribution Capacity needs, Blackwell Bank 1 and Huron Bank 1, that are capacity needs driven by backflow from PV solar generation on the distribution grid. There are two corresponding Planned Investments, Blackwell Bank 1 and Huron Bank 1 that are non-DER solutions (i.e., wires solutions) to address these needs (see Section 3.3 of PG&E's 2021 DDOR). Planned

and taken steps by PG&E to upgrade monitoring and control systems to allow DERs to meet such needs are described in PG&E's Grid Modernization chapter of PG&E's 2023 GRC filing²¹ and include the installation of an Advanced Distribution Management System (ADMS). However, until the relevant ADMS functions are ready, PG&E is developing and testing various components required to enable monitoring and control of 3rd party DERs including the use of a 3rd party owned DER Gateway architecture for telemetry and control as well as short-term load forecasting for day-ahead dispatches.

4.2 GNA Voltage Support Needs

Voltage Support services are substation and/or feeder level dynamic voltage management services provided by an individual resource and/or aggregated resources capable of dynamically correcting excursions outside voltage limits as well as supporting conservation voltage reduction strategies in coordination with utility voltage/reactive power control systems.

Table 8 summarizes the voltage support needs by DPR and by facility. Table 9 summarizes the voltage needs by Anticipated Need Date. All the voltage support needs have an Anticipated Need Date within the next three years, for the reasons specified in Section 2.7. Tables 8 and 9 will be updated in the supplemental filing on October 15, 2021.

Table 8: Summary of Voltage Support Grid Needs by Facility Type and Distribution Planning Region

Distribution Planning Region	Facility Type			Total
	Substation / Bank *	Feeder*	Distribution Line*	
Bay Area	0	0	0	0
Central Coast	0	0	0	0
Central Valley	0	2	0	2
Northern	0	1	0	1
Totals	0	3	0	3

*Additional Grid Needs and associated Planned Investments resulting from line section analysis will be provided as a supplemental filing on October 15, 2021

Table 9: Summary of Voltage Support Grid Needs by Anticipated Need Date

Anticipated Need Date					Total
2021	2022	2023	2024	2025	
3	0	0	0	0	3

²¹ PG&E's 2023 GRC Application, June 30, 2021

4.3 GNA Reliability (Back-Tie) Needs

Reliability (back-tie) services are load-modifying or supply service capable of improving local distribution reliability and/or resiliency. Specifically, this service provides a fast reconnection and availability of excess reserves to reduce demand when restoring customers during abnormal configurations and to minimize customer impact during planned outages.

The 2021 GNA includes back-tie capacity grid needs for banks, feeders, and line sections. In total, there are 24 substation (bank), feeder, and distribution line segment reliability back-tie needs. Table 10 summarizes the reliability (back-tie) needs by DPR and by facility type. The needs are predominately located in the Bay Area and Central Coast DPRs. Table 11 summarizes the reliability back-tie needs by Anticipated Need Date. Most of the reliability back-tie needs have an Anticipated Need Date of 2021.²²

Table 10: Summary of Reliability (Back-Tie) Grid Needs by Facility Type and Distribution Planning Region

Distribution Planning Region	Facility Type			Total
	Substation / Bank*	Feeder*	Distribution Line*	
Bay Area	2	2	2	6
Central Coast	4	2	1	7
Central Valley	0	2	3	5
Northern	0	1	5	6
Totals	6	7	11	24

*Additional Grid Needs and associated Planned Investments resulting from line section analysis will be provided as a supplemental filing on October 15, 2021

Table 11: Summary of Reliability (Back-Tie) Grid Needs by Anticipated Need Date

Anticipated Need Date					Total
2021	2022	2023	2024	> 2025	
23	0	0	0	1	24

The reliability issues listed at Cholame and Templeton are not associated with a Planned Investment and will require the use of contingency plans that may include mobile generation and load shedding. PG&E will continue to monitor the reliability issues and determine whether to include them and potential associated Planned Investments in future DIDF cycles.

²² The Anticipated Need Date may not always be the same as the In-Service Data of an associated Planned Investment.

4.4 GNA Resiliency (Micro-grid) Needs

As adopted in D.18 02-004 and detailed in the Competitive Solicitation Framework Working Group Final Report²³, Resiliency (micro-grid) services are load-modifying and/or supply services capable of improving local distribution reliability (provided by elements of the microgrid when operating in grid-connected mode) and/or resiliency (benefits received by the customers participating in the microgrid when it is operating in an islanded mode). This service provides a fast reconnection and availability of excess reserves to reduce demand when restoring customers during abnormal configurations. This service will also provide power to islanded end use customers when central power is not supplied and reduce duration of outages. These resiliency services can be provided by a single DER resource and/or an aggregated set of DER resources that are able to reduce the net loading on specific distribution infrastructure coincident with the identified operational need in response to a control signal from the utility. In islanded mode it is necessary for a system to match generation to load while maintaining voltage, frequency, power factor and power quality within appropriate limits, and thus requires an isochronous supply resource. This service will likely require the use of utility wires and must be closely coordinated with the utility such that the areas to be re-powered can be adequately isolated via switching from the surrounding circuit.

Table 12 summarizes the resiliency (micro-grid) needs by DPR and by facility type. The needs are predominately located in the Bay Area and Central Coast DPRs. Table 13 summarizes the resiliency needs by Anticipated Need Date.

Table 12: Summary of Resiliency (Micro-grid) Grid Needs by Facility Type and Distribution Planning Region

Distribution Planning Region	Facility Type			Total
	Substation / Bank*	Feeder*	Distribution Line*	
Bay Area	0	7	0	7
Central Coast	1	11	0	12
Central Valley	1	0	0	1
Northern	0	0	0	0
Totals**	2	18	0	20

*Additional Grid Needs and associated Planned Investments resulting from line section analysis will be provided as a supplemental filing on October 15, 2021

²³ Competitive Solicitation Framework Working Group Final Report: <https://drpwg.org/wp-content/uploads/2016/07/2016-08-01-CSFWG-Final-Report-Joint-Competitive-Solicitation-Framework-Working-Group.pdf>

Table 13: Summary of Resiliency (Microgrid) Grid Needs by Facility Type and Distribution Planning Region

Anticipated Need Date					Total
2021	2022	2023	2024	> 2025	
19	0	0	0	1	20

PG&E's 2021 GNA includes 20 Resiliency (micro-grid) needs. The following grid needs requires DER Service Requirements with the ability to operate in an islanded mode (i.e., as a micro-grid):

- Lockeford Bank 1 - Due to load increases in the area, there is no ability to use existing equipment to transfer load during an outage, even if the capacity need was reduced by the DER. Instead, a DER would need to provide islanding capability during a bank outage. Therefore, PG&E has classified the Lockeford Bank 1 need as a resiliency (micro-grid) need in the 2021 DDOR, because the DER solution to defer the associated Candidate Deferral Opportunity (Lockeford Bank 1) would require a micro-grid.
- Montague Bank 3 - The Montague Bank 3 deficiency is caused by planned work to replace Montague Bank 3 with a 75 MVA transformer in 2023. This project is to address a second-day emergency bank loss deficiency. In the event of the loss of Montague Bank 3, loads above 45 MVA on Montague Bank 3 that cannot be transferred to adjacent transformers will remain unserved. This is because the largest mobile transformer available is rated 45 MVA. The unserved load would persist until Montague Bank 3 was replaced again with a 75 MVA transformer, a timeframe of approximately 4 to 6 months. Because of the continuous, long-term need, PG&E has classified the Montague Bank 3 need as a resiliency (micro-grid) need in the 2021 DDOR, because the DER solution to defer the associated Candidate Deferral Opportunity would require a micro-grid.
- There are 18 Resiliency (Micro-Grid) needs listed for feeders that have greater than 6000 customers. These feeders serve a large number of customers which poses two issues: (1) a large number of customers are affected when an outage occurs; (2) typical loading on adjacent circuits could hinder the ability to reconfigure the system in a manner to serve some or all of these customers during an outage. These issues negatively affect both customer outage frequency and duration. In order for a DER solution to provide a reliability benefit in the same manner as reducing customer count on a circuit, a set of customers on the circuit would need to be immediately served by other means during an

outage. This can be accomplished by islanding a part of the circuit so that those customers are not affected by the outage.

Additionally, as a part of PG&E's Wildfire Mitigation Plan²⁴, Microgrid Order Instituting Rulemaking (OIR)²⁵, and in other proceedings, PG&E is pursuing resiliency and reliability improvements to reduce the risk of wildfires and mitigate the customer impacts of Public Safety Power Shutoff (PSPS) through multiple programs supporting temporary and permanent DER based microgrids. The customer-focused programs targeted specifically at PSPS impacted customers include:

Temporary Microgrid Programs:

- The Substation Microgrid Program locates temporary generation at substations to energize communities on downstream distribution lines during PSPS events when operationally safe.
- Individual Critical Customer Back-up Power Systems placed either in front of or behind the meter provide temporary back-up power for critical customers.
- The Distribution Microgrids Program locates generation on the distribution system temporarily through either an ad hoc interconnection or a permanent Pre-installed Interconnection Hub (PIH) to energize a hardened/undergrounded commercial corridor with shared community services.
- In parallel to developing additional Substation and Distribution Microgrids, PG&E is seeking to pilot diesel-alternative generation technologies at some of these sites.²⁶
- Energizing Community Resource Centers where temporary generation is placed at pre-determined hardened indoor facilities (e.g., a library) intends to provide customers access to basic resources and up-to-date information.

Permanent Microgrid Programs:

- The Remote Grid Program provides remote retail electricity customers with electric distribution service through small, permanently islanded DER and distribution facilities²⁷.
- The Distributed Generation Enabled Microgrid Services (DGEMS) Program seeks permanent generation technologies co-located at PG&E substations and possibly distribution microgrids²⁸.

²⁴ PG&E's Community Wildfire Safety Program website:

<http://pgeweb.utility.pge.com/topics/CommunityWildfireSafety>

²⁵ R.19-09-009 - Order Instituting Rulemaking Regarding Microgrids

²⁶ PG&E AL 6204-E

²⁷ CPUC Resolution E-5132. Pacific Gas and Electric. Approval of Remote Grid Stand Alone Power System Supplemental Provision Agreement

²⁸ PG&E AL 6204-E

- The Community Microgrid Enablement Program (CMEP) enables community-driven microgrids to provide enhanced resilience for critical facilities and vulnerable customer groups²⁹.
- The \$200 million Microgrid Incentive Program (MIP) approved by the CPUC and under development by the Joint IOU's will fund clean energy microgrids to support the critical needs of vulnerable populations impacted by grid outages. The Joint IOUs are currently soliciting stakeholder feedback through a series of public workshops with a joint implementation plan to be filed with the CPUC by October 1st, 2021³⁰.
- The Electric Program Investment Charge (EPIC) program³¹ funds research projects advancing the state-of-the-art microgrid architectures.

5. Conclusion

This report fulfills the requirement associated with the filing of PG&E's 2021 GNA annual report. An accompanying report, PG&E's 2021 DDOR report, builds upon the grid needs included herein and identifies Candidate Deferral Opportunities.

²⁹ CPUC Resolution E-5127. Pacific Gas and Electric Community Microgrids Enablement Program

³⁰ Proposed Decision Adopting Rates, Tariffs, and Rules Facilitating the Commercialization of Microgrids Pursuant to Senate Bill 1339 and Resiliency Strategies

³¹ https://www.pge.com/en_US/about-pge/environment/what-we-are-doing/electric-program-investment-charge/electric-program-investment-charge.page?WT.mc_id=Vanity_epicv

Appendices

Appendix A: Datasets Guide

This section is a guide on using the GNA datasets including how to interpret specific fields and values. The data package for the 2021 GNA includes:

- DER Growth Forecast Data from 2021-2025
- Demand Forecast Data from 2021-2025
- GNA Data from 2021-2025

Data for the 2021 GNA will be posted on the DRP Data Portal by August 31, 2021³². Any interested party can access the data through PG&E web maps by using the following link:

[PG&E Distribution Resource Planning Data Access Portal \(pge.com\)](https://pge.com)

DER Growth Forecast Data (Attached as Appendix D)

This data provides the trajectory DER growth forecast applied for each feeder for the entire PG&E territory and broken out by DER type. The DER growth amount shown is the expected DER contribution at the time the feeder is at peak demand. These forecast values do not include existing DER capacity but do show incremental DER growth starting in 2021 and continuing until 2025.

Interpreting the Fields:

- Distribution Planning Region: the distribution planning region where the feeder is located.
- Division: the distribution planning division where the feeder is located.
- Facility Name: the name of the feeder.
- Facility ID: a unique identifier linked to the Facility Name.
- Demand Response: demand response that can be dispatched by PG&E, as opposed to that which can be dispatched by the California Independent System Operator (CAISO), at feeder coincident peak. Negative values translate into load reduction.
- Electric Vehicles: the largest coincidental load increase, in MW, from Electric Vehicle loads. Positive values translate into a load increase.
- Energy Efficiency: the largest coincidental load reduction, in MW, from adopting Energy Efficiency. Negative values translate into load reduction.

³² April 13, 2020 Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework Process, pp. 11. Line Section Data will be posted by October 30, 2021.

- Energy Storage Charge: the largest coincidental load increase, in MW, from Energy Storage Charge loads. Positive values translate into a load increase.
- Energy Storage Discharge: the largest coincidental load decrease, in MW, from Energy Storage Discharge loads. Negative values translate into a load decrease.
- Photovoltaic (PV) Non-Residential: the largest coincidental load decrease, in MW, from non-residential retail photovoltaics. Negative values translate into a load decrease.
- Photovoltaic (PV) Residential: the largest coincidental load decrease, in MW, from residential retail photovoltaics. Negative values translate into a load decrease.

Demand Forecast and Grid Needs Assessment Data (Appendices E – G)³³

Appendix E, Appendix F, and Appendix G all show the forecasted grid needs for substation banks, feeders, and line sections across PG&E's territory. Appendix E shows the Demand Forecast data as 1-in-10-year peak loads for substation banks and feeders, over a 5-year planning horizon. This is compared against the normal operating equipment ratings to determine the bank and feeder capacity needs. Appendix F shows Reliability and Resiliency needs over a 5-year planning horizon. Appendix G³⁴ shows line section voltage and capacity needs over a 3-year planning horizon.

Interpreting the Fields:

- GNA Need ID: a unique identifier that links to DDOR ID in PG&E's accompanying DDOR.
- Distribution Planning Region: the distribution planning region where the facility is located.
- Division: the distribution planning division where the facility is located.
- Facility Name: the name of the substation, bank, feeder, or line section.
- Facility ID: a unique identifier linked to the Facility Name.
- Facility Type: the type of facility – substation, bank, feeder, or line section.
- Primary Driver: the primary driver of the grid need, if one exists.
- Distribution Service Required: the distribution service for which the grid need can mapped to, if one exists – Capacity, Voltage Support, Reliability (Back-Tie), Resiliency (Micro-Grid), Monitor³⁵.
- Anticipated Need Date: the date for which the grid need is estimated to first occur if there is one.

³³ Additional Line Section needs will be provided as a supplemental filing on October 15, 2021.

³⁴ Additional Line Section needs will be provided as a supplemental filing on October 15, 2021.

³⁵ PG&E will continue to monitor all distribution services and determine whether to include them or potential associated Planned Investments in future DIDF cycles.

- Facility Loading (%): $\text{Peak Load/Facility Rating} \times 100$, for each year and for the peak (max) year
- Deficiency: Deficiency related to capacity need or other violated criteria for each year and for the peak (max) year. For Capacity needs, the Deficiency based on Facility Rating. For Reliability and Resiliency needs, the Deficiency is based on the Primary Driver. For Voltage needs, the Deficiency is based on Rule 2 Voltage Limit under normal operating conditions.
- Deficiency (%): $\text{Deficiency/Facility Rating} \times 100$, for each year and for the peak (max) year
- Facility Rating: the normal operating rating of the asset for each year
- Facility Loading: the forecast 1-in-10-year weather net peak loads under normal operating conditions, for each year
- VPU: Voltage per unit for each year
- Volt: The forecasted voltage for each year

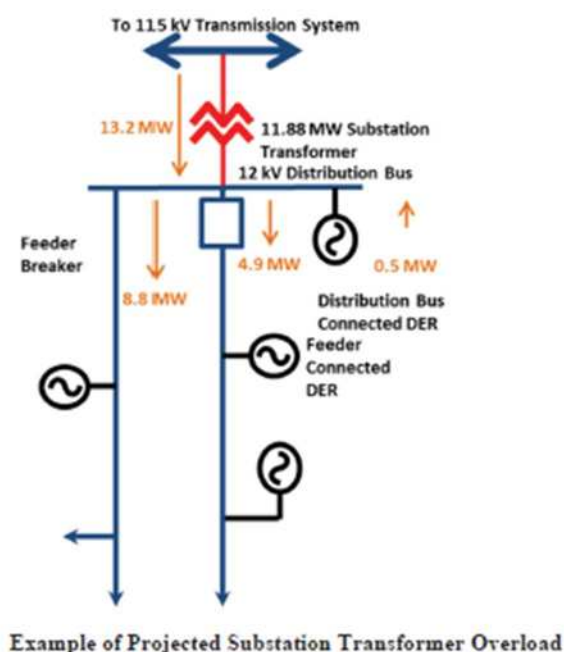
Banks, feeders, and line sections with redacted loads and deficiencies are marked as Customer Confidential or “CC”, due to their peak loads violating PG&E’s adoption of the 15-15 customer privacy rule. A 15-15 violation occurs if the load is comprised of 1 to 15 non-residential customers, if the load is comprised of 1 to 100 residential customers, or if a single customer contributes to more than 15% of the loading value.

Appendix B: Examples of Grid Needs and Associated DER Services

The following examples are based on the Competitive Solicitation Framework Working Group Final Report Filed by the Joint California Investor Own Utilities (August 1, 2016).

Example A: Distribution Capacity Services

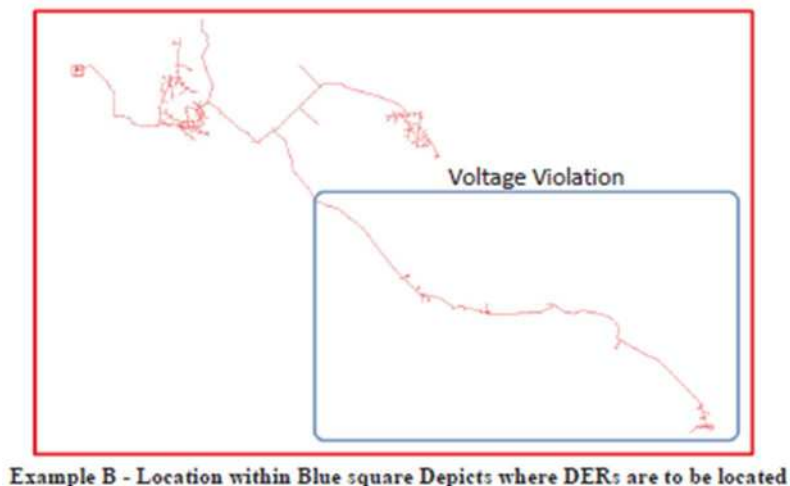
Electric Distribution Planning analysis has identified that a distribution substation transformer is projected to overload in year 2019 during summer peak demand conditions. Specifically, after possible transfers have been completed, this distribution substation transformer is projected to serve a peak demand of 13.2 MW, which exceeds this transformer's thermal capacity rating of 11.88 MW by 11%. Hence, this transformer is projected to overload by 11% under these peak demand conditions. Furthermore, additional Distribution Planning analysis has projected that this overload may reach up to 22% by year 2020 for summer peak demand conditions. The following schematic illustrates this example.



To ensure safe and reliable electric service, additional distribution capacity is required for this transformer. This additional capacity can be achieved through a traditional “wires” solution, which in this case would be the addition of a new substation transformer, or via a DER alternative that effectively reduces this transformer’s net loading to be within its thermal rating.

Example B: Voltage Support Service

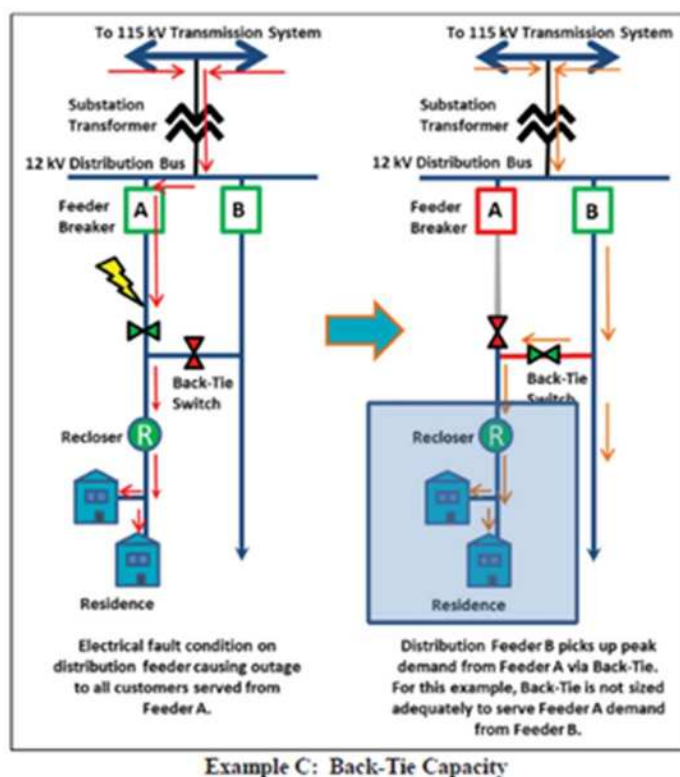
Electric Distribution Planning utilizes modeling tools to perform power-flow studies of the distribution system simulating electric grid performance. The loading values input for each distribution feeder are based on forecast values. The 2016 results from the power flow identified a feeder with steady-state voltage below the CPUC Rule 2 limit at specific sections on a highly residential feeder. The area in question is also forecast to incur future residential development in the next several years increasing the demand and reducing the voltage further. The following schematic identifies the distribution feeder forecast to have voltage violations during peak conditions.



To ensure safe and reliable electric service as well as maintaining compliance with CPUC Rule 2 voltage limits, additional reactive resources are required. A traditional “wires” solution to provide additional reactive resources is installing a switched capacitor on the feeder or installing a voltage regulator. Another alternative is interconnecting DERs to provide reactive resources effectively acting as a capacitor either when requested by the utility or provided with a required operating profile. The DER reactive resource could be from an individual resource and/or aggregated resources capable of dynamically and demonstrably providing reactive power.

Example C: Reliability Services – Back-Tie

Electric Distribution Planning analysis has identified that a distribution feeder is projected to overload by year 2018 under emergency conditions when providing back-tie capacity support to an adjacent distribution feeder that has an experienced an outage. Specifically, the distribution feeder back-tie is not sized appropriately to transfer peak demand from the de-energized distribution feeder to an adjacent distribution feeder. The following figure illustrates this example.

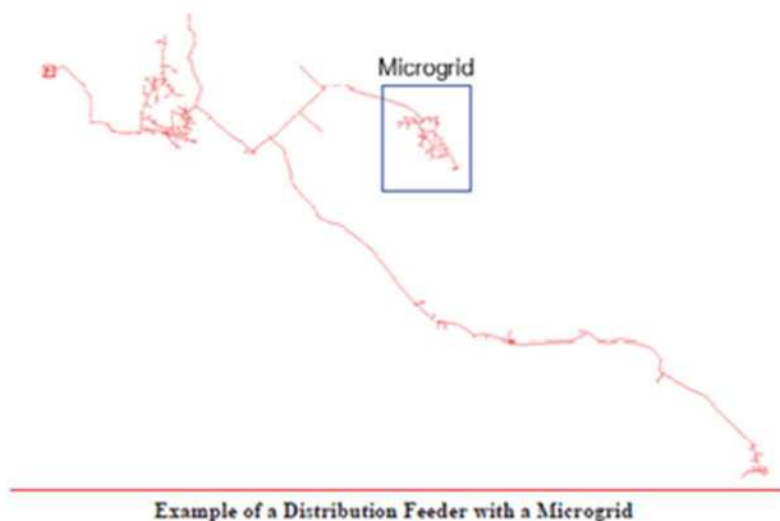


To ensure safe and reliable electric service as well as maintaining compliance with the CPUC Rule 2 voltage limits, additional DER resources may provide additional reliability via incremental back-tie capacity support following distribution feeder outage conditions. A traditional “wires” solution to provide this additional reliability service is to reinforce this back-tie with higher rated infrastructure, which could include larger size electrical line conductors and higher rated back-tie switches. Another alternative is interconnecting and operating DERs to provide resources to restore service to customers either when requested by the utility or provided when a forced outage occurs and incremental back-tie support is needed to serve electric customers from an adjacent feeder. The DER resources could be from an individual resource and/or aggregated resources capable of dynamically and demonstrably providing the electrical services to customers.

Example D: Reliability Services – Resiliency

Electric Distribution Planning utilizes modeling tools to perform power-flow studies of the distribution system simulating electric grid performance. The loading values inputted for each distribution feeder are based on forecast values. Under normal operating scenarios customers are provided electric service that meets Rule 2 levels of service, voltage range of 105% to 95% of nominal 120 V, with frequency typically in the range of 60 +/- 0.1 Hz. When a forced or a planned outage occurs, customers will experience a loss of electrical service. If the outage occurs upstream of a sectionalizing device and there is a downstream open circuit tie as discussed in Reliability: Backup Capability,

then the upstream device is opened, the downstream ties switch is closed and service is restored to customers on the non-faulted areas of the feeder.



Thus, a traditional “wires” solution to provide resiliency for a defined subset of customers is to provide an alternative feed to the customers who would be impacted by an outage. Another alternative is interconnecting DERs to provide resources to restore service to customers either when requested by the utility or provided when a forced outage occurs on the feeder upstream. The DER resources could be from an individual resource and/or aggregated resources capable of dynamically and demonstrably providing the electrical services to customers. The generation resources must be capable of operating in isochronous mode and must have associated controls to match generation to load while maintaining voltage, frequency, and power factor and power quality within appropriate limits.

Appendix C: Flow Chart of DER Forecast

Appendix included as a separate PDF.

Appendix D: GNA Results – DER Growth Forecast

Appendix included as a separate PDF.

Appendix E: GNA Results – Demand Forecast and Bank/Feeder Capacity Needs

Appendix included as a separate PDF.

Appendix F: GNA Results – Reliability/Resiliency Needs

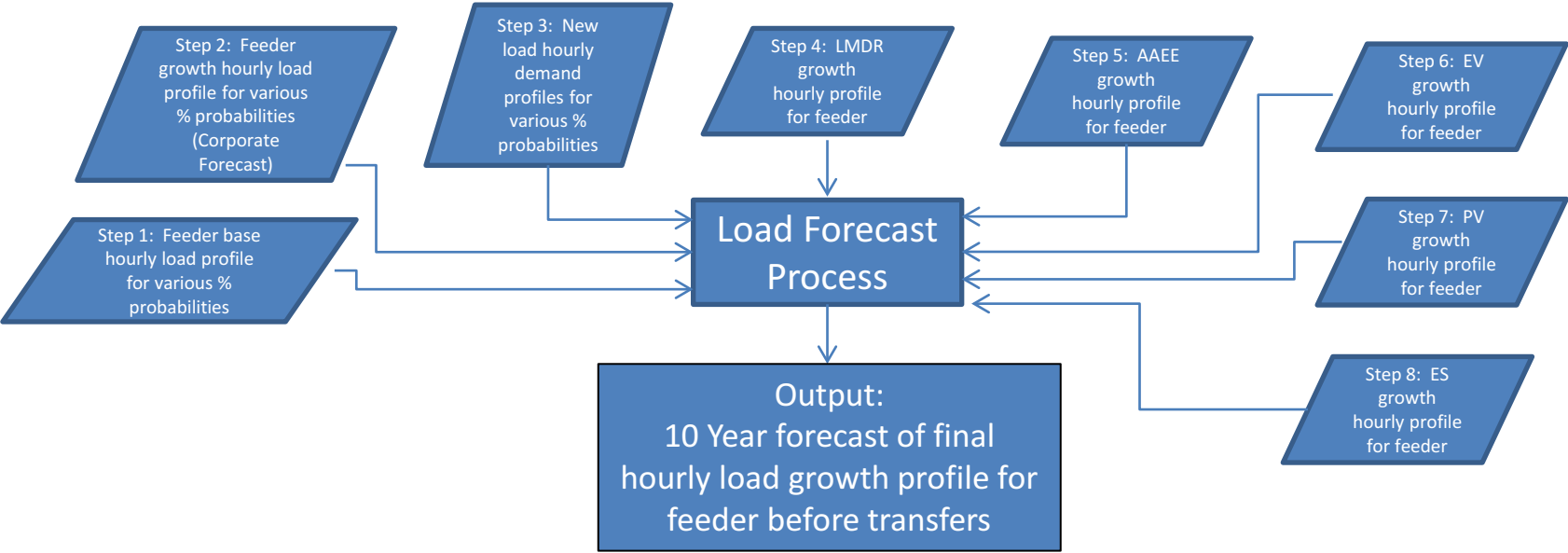
Appendix included as a separate PDF.

Appendix G: GNA Results – Line Section Capacity and Voltage Needs

Appendix included as a separate PDF.

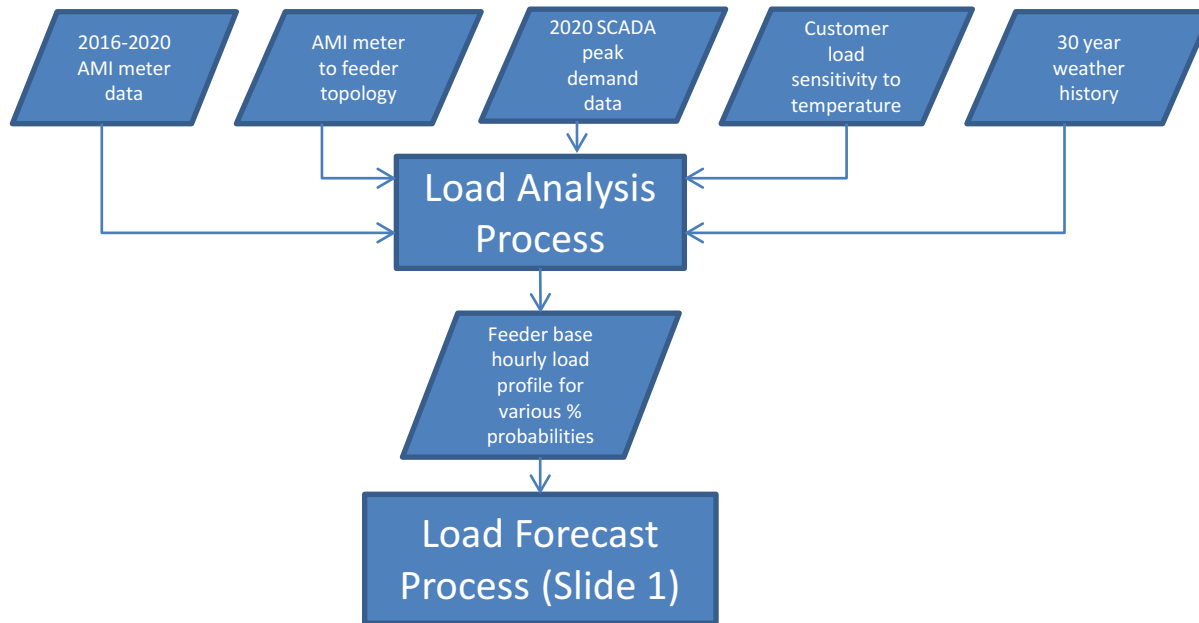
Note: Line Section needs will be provided as a supplemental filing on October 15, 2021 as approved in PG&E's Motion for Extension of time (dated August 10, 2021)

Final Feeder Forecast Before Transfers

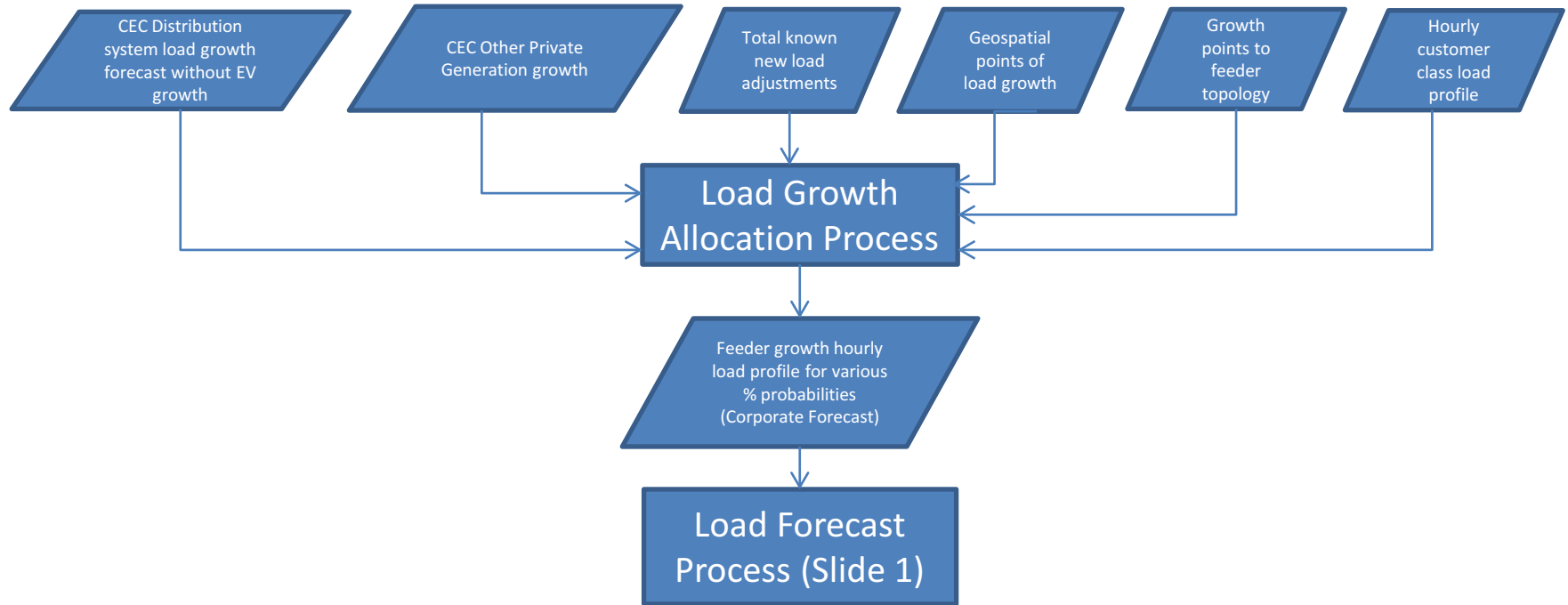


For details on Steps 1-8, please see following slides

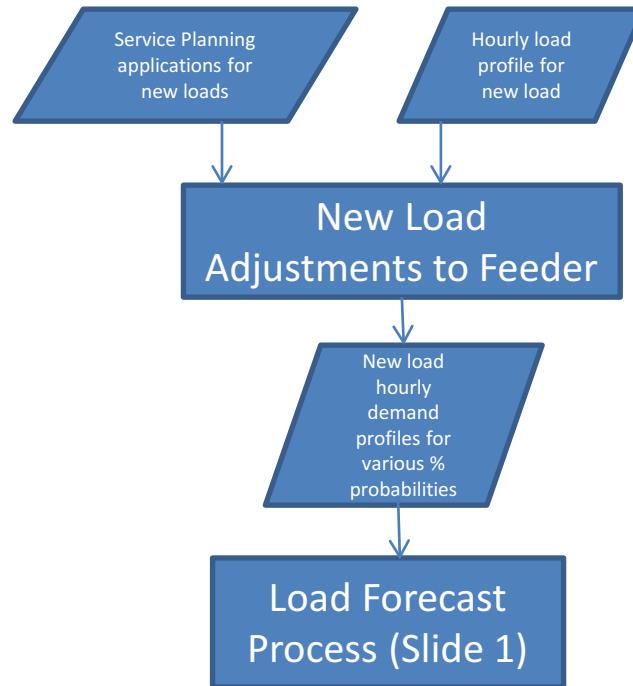
Step 1: Creation of Feeder Hourly Base Load Profiles



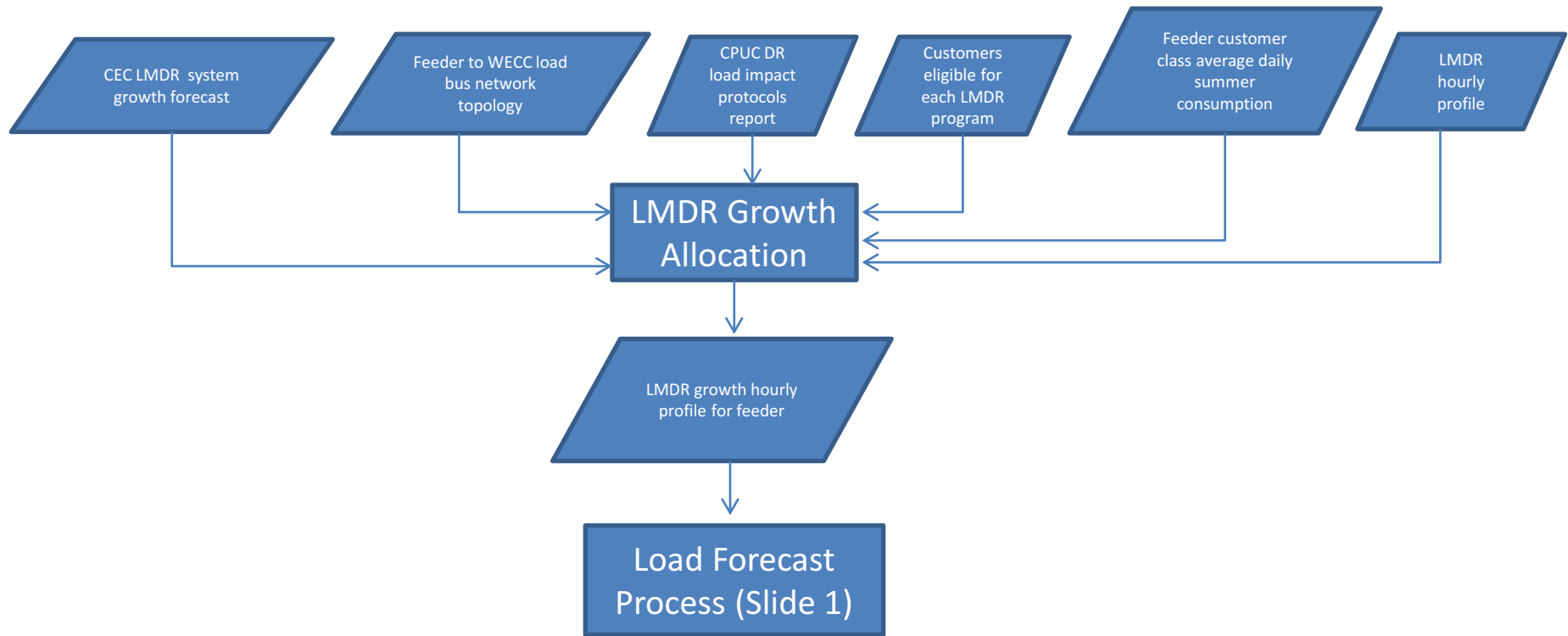
Step 2 : CEC Growth Forecast Allocation to Feeder



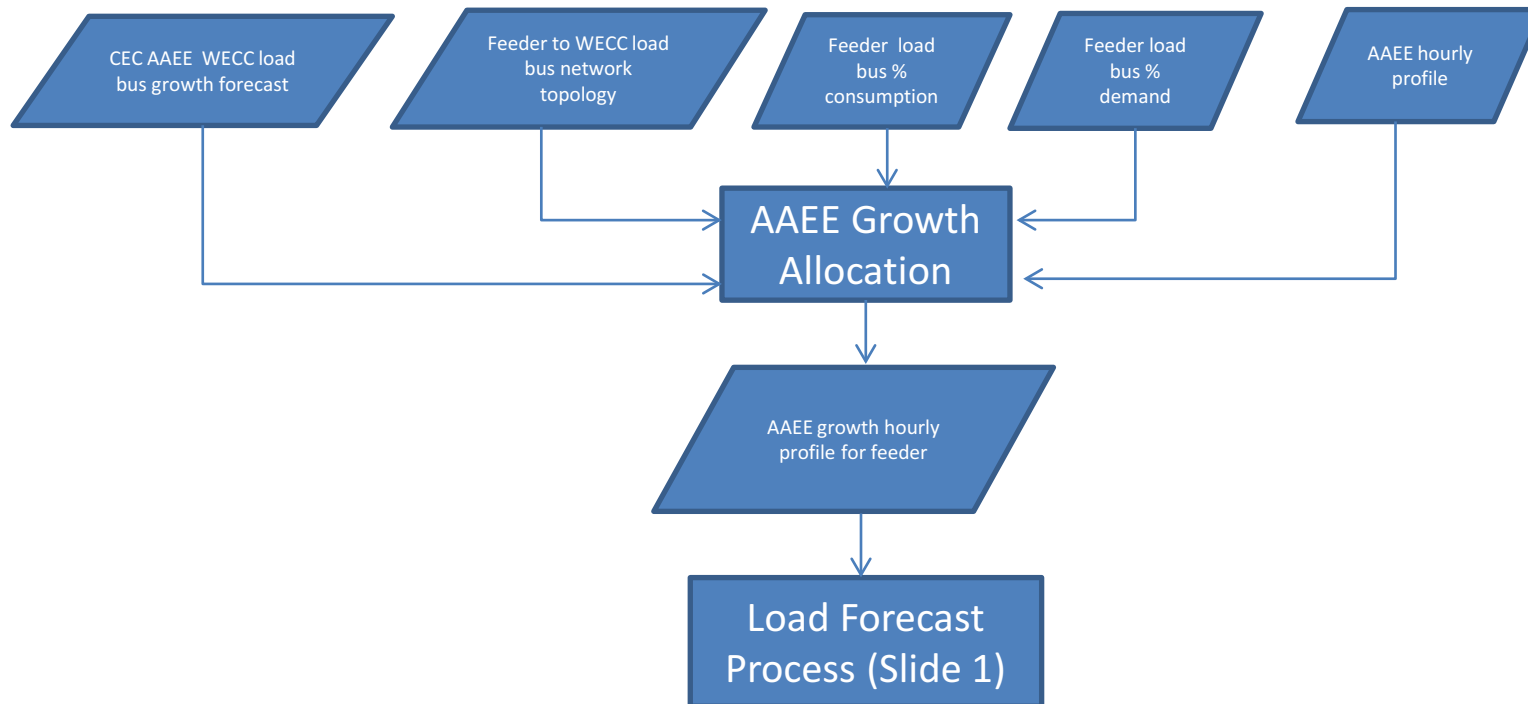
Step 3: Known New Load Adjustments



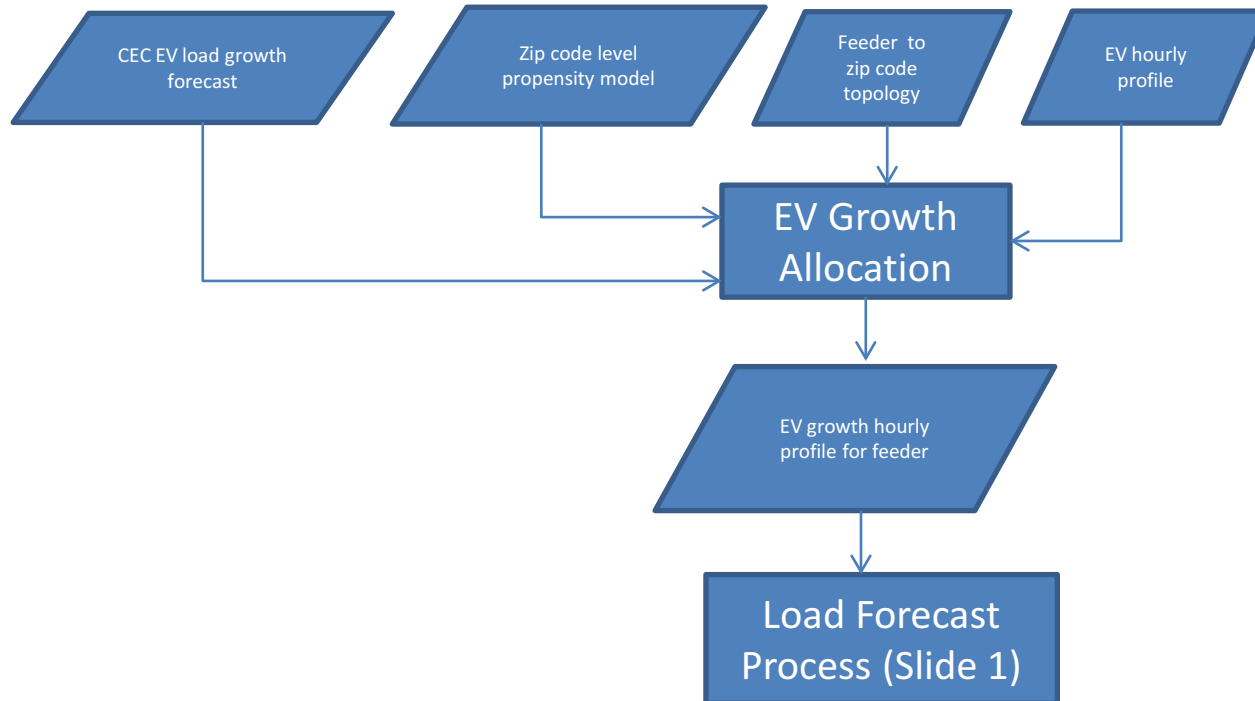
Step 4: LMDR Growth Forecast Allocation to Feeder



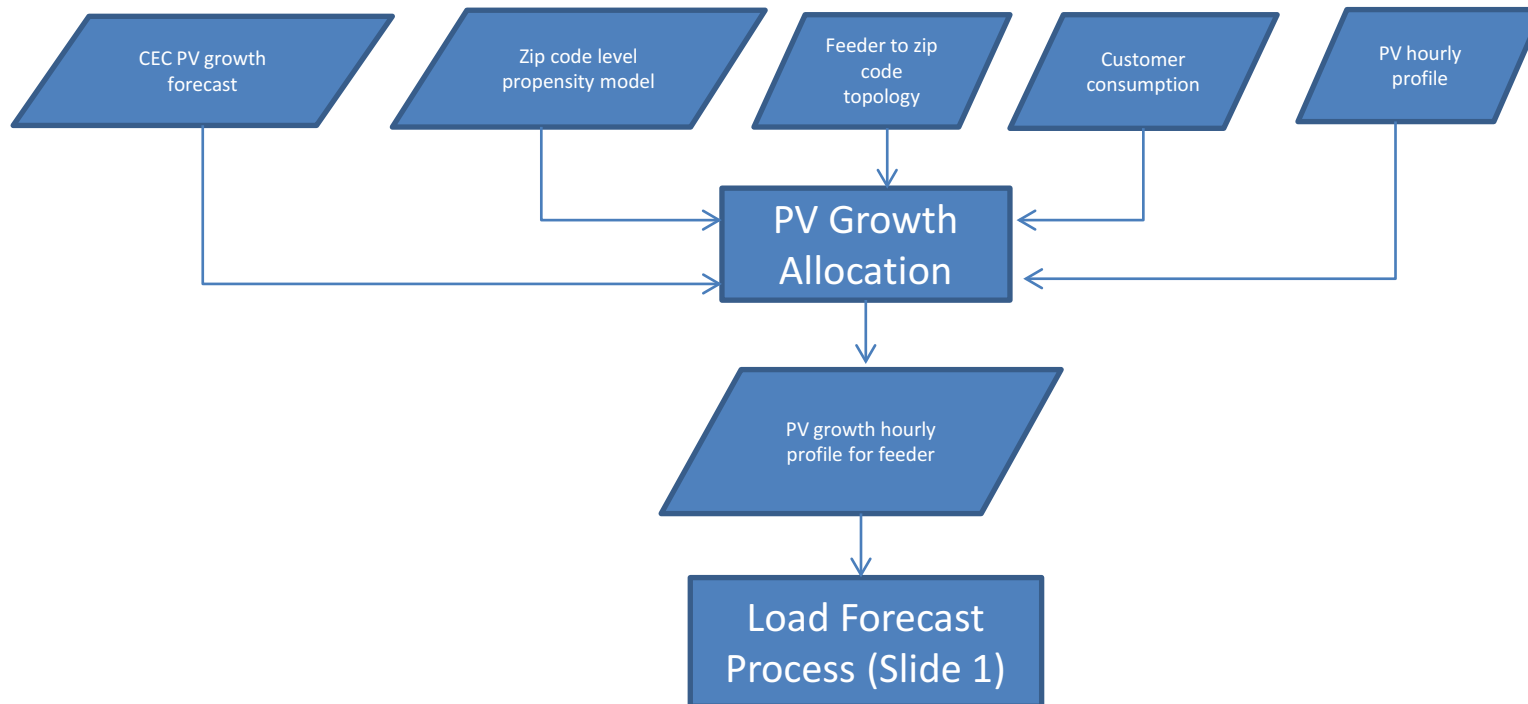
Step 5: AAEE Growth Forecast Allocation to Feeder



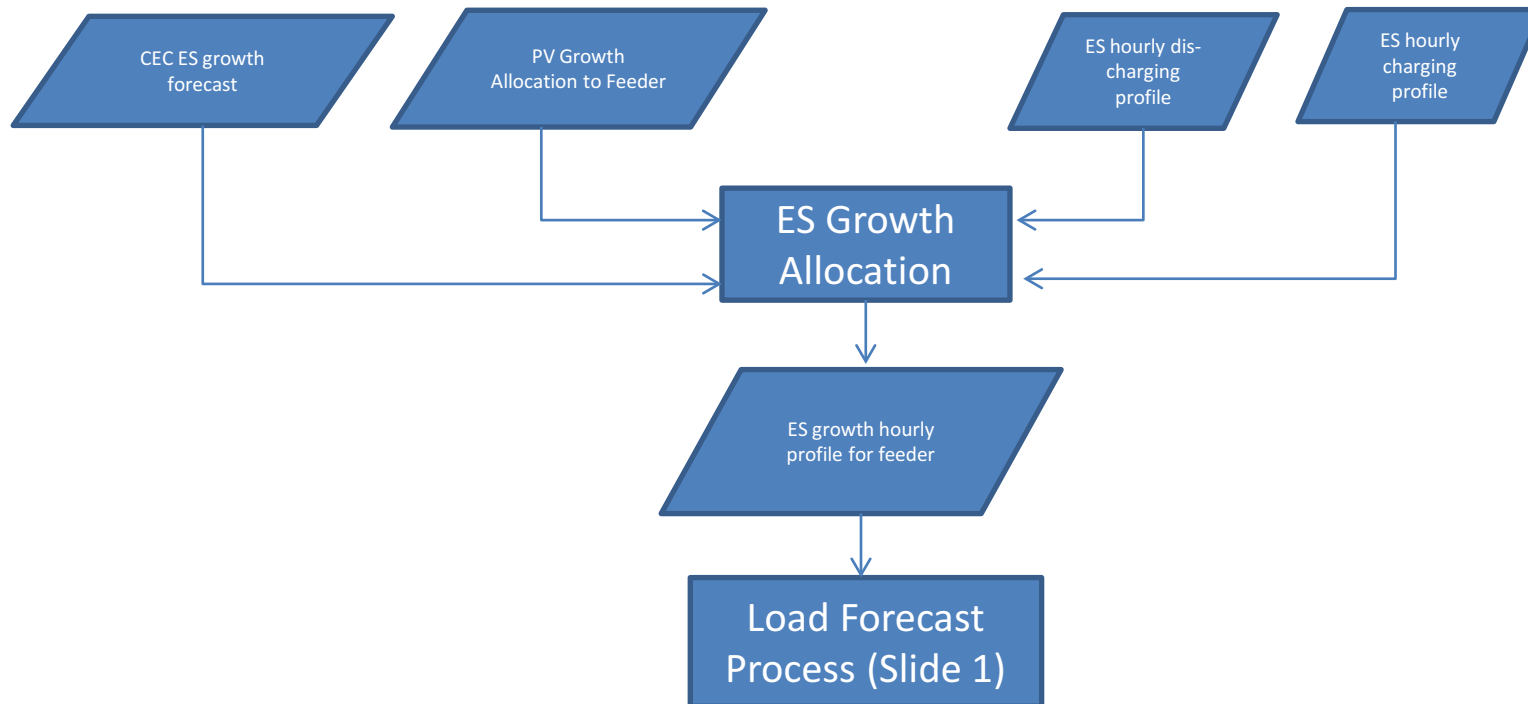
Step 6: EV Growth Forecast Allocation to Feeder



Step 7: PV Growth Forecast Allocation to Feeder



Step 8: ES Growth Forecast Allocation to Feeder



Facility Information				2021										2022										2023										2024										2025									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)										
Central Valley	Fresno	ASHLAN AVENUE 2118	252052118	0.00	0.00	0.00	-0.04	-0.02	0.00	-0.01	-0.05	0.00	0.00	0.00	0.00	-0.09	-0.03	0.00	-0.02	-0.08	0.00	0.00	0.01	-0.13	-0.05	0.00	-0.03	-0.11	0.00	0.00	0.01	-0.18	-0.05	0.01	-0.04	-0.12	0.00	0.00	0.01	-0.23	-0.07	0.01	-0.04	-0.14									
Central Valley	Fresno	ASHLAN AVENUE 1102	252051102	0.00	0.00	0.00	-0.02	-0.02	0.00	-0.01	-0.05	0.00	0.00	0.00	0.01	-0.05	-0.03	0.00	-0.02	-0.09	0.00	0.00	0.01	-0.07	-0.05	0.00	-0.03	-0.12	0.00	0.00	0.02	-0.10	-0.06	0.01	-0.04	-0.14	0.00	0.00	0.02	-0.12	-0.07	0.01	-0.05	-0.16									
Central Valley	Fresno	ASHLAN AVENUE 1103	252051103	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	-0.06	0.00	0.00	0.00	0.00	-0.02	-0.02	0.00	-0.01	-0.10	0.00	0.00	0.01	-0.03	-0.02	0.00	-0.01	-0.12	0.00	0.00	0.02	0.00	-0.02	0.00	-0.03	-0.01	0.00	0.00	0.03	0.00	-0.03	0.00	-0.03	-0.01									
Central Valley	Fresno	ASHLAN AVENUE 1104	252051104	0.00	0.00	0.00	-0.05	-0.02	0.00	-0.01	-0.07	0.00	0.00	0.00	0.01	-0.11	-0.04	0.00	-0.02	-0.12	0.00	0.00	0.01	-0.16	-0.06	0.00	-0.03	-0.15	0.00	0.00	0.03	-0.01	-0.05	0.01	-0.05	-0.01	0.00	0.00	0.04	-0.02	-0.07	0.01	-0.07	-0.01									
Central Valley	Fresno	ASHLAN AVENUE 1106	252051106	0.00	0.00	0.00	-0.08	-0.02	0.00	-0.01	-0.06	0.00	0.00	0.00	0.01	-0.17	-0.04	0.00	-0.03	-0.10	0.00	0.00	0.02	-0.25	-0.07	0.01	-0.04	-0.13	0.00	0.00	0.02	-0.34	-0.07	0.01	-0.06	-0.16	0.00	0.00	0.06	-0.03	-0.09	0.01	-0.10	-0.01									
Central Valley	Fresno	ASHLAN AVENUE 1107	252051107	0.00	0.00	0.00	-0.03	-0.02	0.00	-0.01	-0.04	0.00	0.00	0.00	0.01	-0.06	-0.03	0.00	-0.02	-0.07	0.00	0.00	0.01	-0.08	-0.05	0.00	-0.03	-0.09	0.00	0.00	0.02	-0.11	-0.06	0.01	-0.04	-0.11	0.00	0.00	0.02	-0.14	-0.07	0.01	-0.06	-0.12									
Central Valley	Fresno	ASHLAN AVENUE 1108	252051108	0.00	0.00	0.00	-0.10	-0.02	0.00	0.00	-0.05	0.00	0.00	0.00	0.00	-0.21	-0.05	0.00	0.00	-0.08	0.00	0.00	0.01	-0.24	-0.08	0.00	-0.01	-0.08	0.00	0.00	0.01	-0.33	-0.08	0.00	-0.02	-0.10	0.00	0.00	0.04	0.00	-0.10	0.00	-0.05	0.00									
Central Valley	Fresno	ASHLAN AVENUE 1109	252051109	0.00	0.00	0.00	-0.07	-0.03	0.00	0.00	-0.15	0.00	0.00	0.00	0.01	-0.13	-0.05	0.00	0.00	-0.24	0.00	0.00	0.02	-0.17	-0.08	0.01	-0.03	-0.24	0.00	0.00	0.02	-0.22	-0.08	0.01	-0.04	-0.29	0.00	0.00	0.03	-0.28	-0.11	0.01	-0.05	-0.33									
Central Valley	Fresno	ASHLAN AVENUE 1111	252051111	0.00	0.00	0.00	-0.08	-0.01	0.00	0.00	-0.08	0.00	0.00	0.00	0.01	-0.16	-0.03	0.00	0.00	-0.13	0.00	0.00	0.01	-0.24	-0.05	0.00	0.00	-0.17	0.00	0.00	0.01	-0.16	-0.05	0.01	-0.04	-0.09	0.00	0.00	0.02	-0.20	-0.06	0.01	-0.05	-0.10									
Central Valley	Fresno	ASHLAN AVENUE 1112	252051112	0.00	0.00	0.01	-0.03	-0.02	0.00	-0.01	-0.15	0.00	0.00	0.00	0.02	-0.02	-0.04	0.00	-0.04	-0.09	0.00	0.00	0.02	-0.04	-0.07	0.01	-0.06	-0.11	0.00	0.00	0.03	-0.05	-0.07	0.01	-0.07	-0.13	0.00	0.00	0.04	-0.06	-0.09	0.01	-0.09	-0.15									
Central Valley	Fresno	ASHLAN AVENUE 1113	252051113	0.00	0.00	0.01	-0.01	-0.02	0.00	-0.01	-0.05	0.00	0.00	0.00	0.01	-0.01	-0.03	0.00	-0.03	-0.08	0.00	0.00	0.02	-0.02	-0.05	0.00	-0.04	-0.10	0.00	0.00	0.03	-0.02	-0.05	0.01	-0.05	-0.12	0.00	0.00	0.05	-0.03	-0.07	0.01	-0.07	-0.13									
Central Valley	Fresno	ASHLAN AVENUE 1114	252051114	0.00	0.00	0.00	-0.01	-0.01	0.00	-0.01	-0.03	0.00	0.00	0.00	0.01	-0.01	-0.02	0.00	-0.01	-0.04	0.00	0.00	0.01	-0.02	-0.04	0.00	-0.02	-0.05	0.00	0.00	0.01	-0.02	-0.04	0.00	-0.02	-0.06	0.00	0.00	0.01	-0.03	-0.05	0.00	-0.03	-0.07									
Central Valley	Fresno	ASHLAN AVENUE 1116	252051116	0.00	0.00	0.01	-0.04	-0.02	0.00	-0.01	-0.17	0.00	0.00	0.00	0.01	-0.08	-0.05	0.00	-0.02	-0.28	0.00	0.00	0.02	-0.07	-0.07	0.01	-0.05	-0.22	0.00	0.00	0.03	-0.10	-0.08	0.01	-0.06	-0.26	0.00	0.00	0.04	-0.13	-0.10	0.01	-0.08	-0.30									
Central Valley	Fresno	ASHLAN AVENUE 2101	252052101	0.00	0.00	0.00	-0.03	-0.01	0.00	-0.01	-0.05	0.00	0.00	0.00	0.00	-0.06	-0.02	0.00	-0.01	-0.08	0.00	0.00	0.01	-0.08	-0.03	0.00	-0.02	-0.10	0.00	0.00	0.01	-0.11	-0.04	0.00	-0.02	-0.11	0.00	0.00	0.01	-0.14	-0.05	0.00	-0.03	-0.13									
Central Valley	Fresno	ASHLAN AVENUE 2105	252052105	0.00	0.00	0.00	-0.06	-0.02	0.00	-0.01	-0.16	0.00	0.00	0.00	0.01	-0.11	-0.04	0.00	-0.03	-0.26	0.00	0.00	0.02	-0.17	-0.07	0.01	-0.04	-0.33	0.00	0.00	0.03	-0.10	-0.07	0.01	-0.07	-0.14	0.00	0.00	0.04	-0.12	-0.09	0.01	-0.09	-0.15									
Central Valley	Fresno	ASHLAN AVENUE 2110	252052110	0.00	0.00	0.00	-0.04	-0.01	0.00	-0.01	-0.09	0.00	0.00	0.00	0.01	-0.08	-0.03	0.00	-0.02	-0.14	0.00	0.00	0.01	-0.12	-0.04	0.00	-0.02	-0.18	0.00	0.00	0.01	-0.16	-0.04	0.00	-0.03	-0.22	0.00	0.00	0.02	-0.21	-0.05	0.01	-0.04	-0.25									
Central Valley	Fresno	ASHLAN AVENUE 2115	252052115	0.00	0.00	0.00	-0.02	-0.01	0.00	0.00	-0.05	0.00	0.00	0.00	0.00	-0.05	-0.01	0.00	-0.01	-0.08	0.00	0.00	0.01	-0.07	-0.02	0.00	-0.01	-0.10	0.00	0.00	0.01	-0.10	-0.02	0.00	-0.02	-0.12	0.00	0.00	0.01	-0.12	-0.03	0.00	-0.02	-0.14									
Central Valley	Fresno	ASHLAN AVENUE 2117	252052117	0.00	0.00	0.00	-0.03	-0.02	0.00	-0.01	-0.09	0.00	0.00	0.00	0.01	-0.05	-0.03	0.00	-0.02	-0.14	0.00	0.00	0.02	-0.08	-0.06	0.00	-0.03	-0.19	0.00	0.00	0.02	-0.11	-0.06	0.01	-0.05	-0.22	0.00	0.00	0.03	-0.14	-0.07	0.01	-0.06	-0.25									

Facility Information				2021																	2022																	2023																	2024																	2025																
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	V Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)																																													
Bay Area	East Bay	EL CERRITO G 1107	012501107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																																									
Bay Area	East Bay	EL CERRITO G 1108	012501108	0.00	0.00	0.02	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.04	0.00	-0.02	0.01	-0.05	0.00	0.00	0.00	0.06	0.00	-0.03	0.01	-0.08	0.00	-0.01	-0.12	0.00	0.00	0.00	0.10	0.00	-0.04	0.02	-0.15	0.00	0.00	0.00	0.10	0.00	-0.04	0.02	-0.15	0.00	0.00																																									
Bay Area	East Bay	EL CERRITO G 1109	012501109	0.00	0.00	-0.09	-0.01	-0.01	0.00	0.00	-0.01	0.00	0.00	-0.09	-0.01	-0.03	0.01	0.00	-0.01	0.00	0.00	-0.11	-0.02	-0.04	0.01	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	-0.10	-0.03	-0.05	0.02	0.00	-0.02	0.00	0.00	-0.10	-0.03	-0.05	0.02	0.00	-0.02	0.00																																									
Bay Area	East Bay	EL CERRITO G 1110	012501110	0.00	0.00	0.01	-0.02	-0.01	0.01	0.00	-0.05	0.00	0.00	0.01	-0.03	-0.02	0.02	-0.01	-0.10	0.00	0.00	0.02	-0.05	-0.03	0.04	-0.01	-0.13	0.00	0.00	0.00	0.03	-0.06	-0.03	0.05	-0.01	-0.15	0.00	0.00	0.00	0.03	-0.08	-0.03	0.06	-0.01	-0.17	0.00	0.00																																									
Bay Area	East Bay	EL CERRITO G 1111	012501111	0.00	0.00	0.05	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.09	0.00	-0.02	0.01	-0.06	0.00	0.00	0.00	0.14	0.00	-0.03	0.01	-0.09	0.00	0.00	-0.13	0.00	0.00	0.17	0.00	-0.03	0.01	-0.13	0.00	0.00	0.00	0.21	0.00	-0.04	0.02	-0.16	0.00	0.00																																										
Bay Area	East Bay	EL CERRITO G 1112	012501112	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.11	0.00	-0.03	0.01	-0.07	0.00	0.00	0.00	0.16	0.00	-0.04	0.01	-0.11	0.00	0.00	0.00	0.20	0.00	-0.04	0.02	-0.15	0.00	0.00	0.00	0.25	0.00	-0.05	0.02	-0.20	0.00	0.00																																												
Bay Area	East Bay	EL CERRITO G 1113	012501113	0.00	0.00	0.01	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.01	0.00	-0.03	0.00	-0.03	0.00	0.00	0.00	0.02	0.00	-0.04	0.01	-0.05	0.00	0.00	0.00	0.03	0.00	-0.04	0.01	-0.07	0.00	0.00	0.00	0.03	0.00	-0.05	0.01	-0.09	0.00	0.00																																												
Bay Area	East Bay	EL CERRITO G 1114	012501114	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.07	0.00	-0.02	0.00	-0.04	0.00	0.00	0.00	0.14	0.00	-0.03	0.01	-0.04	0.00	0.00	0.00	0.21	0.00	-0.03	0.01	-0.04	0.00	0.00	0.00	0.25	0.00	-0.04	0.01	-0.05	0.00	0.00																																												
Bay Area	East Bay	RICHMOND Q 0401	012520401	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00																																												
Bay Area	East Bay	RICHMOND Q 0402	012520402	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.05	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.06	0.00	0.00	0.00	-0.02	0.00	0.00																																												
Bay Area	East Bay	OAK 0401	012600401	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00																																												
Bay Area	East Bay	FAIRMOUNT 0401	012650401	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	-0.03	0.00	0.00																																												
Bay Area	East Bay	FAIRMOUNT 0402	012650402	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.03	0.00	0.00																																												
Bay Area	East Bay	BERKELEY T 0401	012660401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00																																												
Bay Area	East Bay	BERKELEY T 0402	012660402	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.04	0.00	0.00																																												
Bay Area	East Bay	BERKELEY T 0403	012660403	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00																																												
Bay Area	East Bay	BERKELEY T 0404	012660404	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00																																												
Bay Area	East Bay	RIDGE 0401	012840401	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00																																												
Bay Area	East Bay	RIDGE 0402	012840402	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.02	0.00	0.00																																												
Bay Area	East Bay	BARRETT 0401	013020401	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.08	0.00	-0.01	0.00	-0.04	0.00	0.00	0.00	0.10	0.00	-0.01	0.01	-0.05	0.00	0.00																																												
Bay Area	East Bay	BARRETT 0402	013020402	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	-0.04	0.00	0.00																																												
Bay Area	East Bay	SOLANO 0402	013140402	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	-0.04	0.00	0.00																																												
Bay Area	East Bay	BROOKSIDE 0401	013210401	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.02	0.00	0.00	0.04	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.03	0.00	0.00																																													
Bay Area	East Bay	WALDO 0401	013350401	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	-0.04	0.00	0.00																																												
Bay Area	East Bay	WALDO 0402	013350402	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.03	0.00	0.00																																												
Bay Area	East Bay	RICHMOND R 1118	013471118	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.03	0.01	0.00	0.00	0.00	0.00	-0.02	-0.03	0.01	0.00	0.00	0.00	0.00	0.00	-0.02	-0.03	0.01	0.00	-0.04	0.00	0.00																																												
Bay Area	East Bay	RICHMOND R 1119	013471119	0.00	0.00	0.01	0.00	-0.01	0.00	0.00	-0.04	0.00	0.00	0.02	-0.01	-0.02	0.01	-0.01	-0.07	0.00	0.00	0.03	-0.01	-0.03	0.01	-0.01	-0.09	0.00	0.00	0.04	-0.02	-0.03	0.01	-0.01	-0.11	0.00	0.00	0.05	-0.02	-0.04	0.01	-0.01	-0.13	0.00	0.00																																											
Bay Area	East Bay	RICHMOND R 1120	013471120	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.05	0.00	0.00	0.00	0.00																																												
Bay Area	East Bay	RICHMOND R 1121	013471121	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.03																																																																										

2021										2022										2023										2024										2025									
Facility Information																																																	
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non- Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non- Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non- Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non- Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non- Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)						
Bay Area	East Bay	FRANKLIN 1103	013921103	0.00	0.00	0.04	0.00	-0.03	0.00	-0.03	0.00	0.00	0.00	0.08	0.00	-0.06	0.01	-0.06	0.00	0.00	0.00	0.00	0.12	0.00	-0.10	0.01	-0.09	0.00	0.00	0.00	0.16	0.00	-0.10	0.01	-0.12	0.00	0.00	0.00	0.19	0.00	-0.12	0.02	-0.15	0.00	0.00				
Bay Area	East Bay	FRANKLIN 1104	013921104	0.00	0.00	0.11	0.00	-0.02	0.00	-0.04	0.00	0.00	0.00	0.21	0.00	-0.04	0.01	-0.09	0.00	0.00	0.00	0.31	0.00	-0.06	0.01	-0.14	0.00	0.00	0.00	0.39	0.00	-0.06	0.02	-0.19	0.00	0.00	0.00	0.47	0.00	-0.08	0.02	-0.24	0.00	0.00					
Bay Area	East Bay	POINT PINOLE 1101	014261101	0.00	0.00	0.09	0.00	-0.02	0.00	-0.03	0.00	0.00	0.00	0.17	0.00	-0.03	0.01	-0.07	0.00	0.00	0.00	0.31	0.00	-0.05	0.01	-0.11	0.00	0.00	0.00	0.32	0.00	-0.05	0.02	-0.16	0.00	0.00	0.00	0.39	0.00	-0.07	0.02	-0.20	0.00	0.00					
Bay Area	East Bay	POINT PINOLE 1102	014261102	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.02	0.00	-0.04	0.00	0.00	0.00	0.09	0.00	-0.04	0.01	-0.06	0.00	0.00	0.00	0.22	0.00	-0.04	0.01	-0.09	0.00	0.00	0.00	0.26	0.00	-0.05	0.01	-0.11	0.00	0.00					
Bay Area	East Bay	VALLEY VIEW 1105	014341103	0.00	0.00	0.07	0.00	-0.02	0.00	-0.03	0.00	0.00	0.00	0.14	0.00	-0.04	0.01	-0.06	0.00	0.00	0.00	0.20	0.00	-0.07	0.01	-0.10	0.00	0.00	0.00	0.26	0.00	-0.07	0.01	-0.13	0.00	0.00	0.00	0.31	0.00	-0.09	0.02	-0.17	0.00	0.00					
Bay Area	East Bay	VALLEY VIEW 1105	014341105	0.00	0.00	0.02	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.08	0.00	-0.04	0.01	-0.05	0.00	0.00	0.00	0.11	0.00	-0.06	0.01	-0.08	0.00	0.00	0.00	0.14	0.00	-0.06	0.01	-0.11	0.00	0.00	0.00	0.17	0.00	-0.08	0.01	-0.14	0.00	0.00					
Bay Area	East Bay	VALLEY VIEW 1106	014341106	0.00	0.00	0.02	0.00	-0.01	0.00	-0.02	-0.22	0.00	0.00	0.04	-0.01	-0.03	0.01	-0.04	-0.41	0.00	0.00	0.06	-0.01	-0.04	0.01	-0.06	-0.53	0.00	0.00	0.22	0.00	-0.04	0.02	-0.16	-0.02	0.00	0.00	0.26	0.00	-0.05	0.02	-0.20	-0.02	0.					

Facility Information				2021										2022										2023										2024										2025									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	Residential (MW)										
Bay Area	Diablo	LONE TREE 2105	013232105	0.00	0.00	-0.24	0.00	-0.04	0.00	-0.02	-0.17	0.00	0.00	-0.22	-0.01	-0.09	0.01	-0.05	-0.31	0.00	0.00	-0.20	-0.01	-0.14	0.01	-0.08	-0.40	0.00	0.00	0.00	-0.18	-0.02	-0.14	0.01	-0.11	-0.47	0.00	0.00	-0.16	-0.02	-0.18	0.02	-0.14	-0.53									
Bay Area	Diablo	CONTRA COSTA 2107	013652107	0.00	0.00	0.06	-0.02	-0.03	0.00	0.00	-0.32	0.00	0.00	0.13	-0.04	-0.07	0.01	-0.01	-0.60	0.00	0.00	0.18	-0.06	-0.11	0.01	-0.01	-0.79	0.00	0.00	0.00	0.21	-0.09	-0.12	0.02	-0.02	-0.93	0.00	0.00	0.24	-0.11	-0.15	0.02	-0.02	-1.06									
Bay Area	Diablo	CONTRA COSTA 2108	013652108	0.00	0.00	0.04	0.00	-0.04	0.01	-0.04	-0.24	0.00	0.00	0.19	0.00	-0.07	0.01	-0.12	-0.02	0.00	0.00	0.28	0.00	-0.12	0.02	-0.18	-0.03	0.00	0.00	0.35	0.00	-0.12	0.03	-0.25	-0.04	0.00	0.00	0.43	0.00	-0.16	0.03	-0.32	-0.04										
Bay Area	Diablo	CONTRA COSTA 2109	013652109	0.00	0.00	0.07	0.00	-0.05	0.01	-0.07	-0.13	0.00	0.00	0.13	-0.01	-0.09	0.02	-0.15	-0.24	0.00	0.00	0.19	-0.01	-0.15	0.02	-0.23	-0.31	0.00	0.00	0.24	-0.01	-0.15	0.03	-0.32	-0.37	0.00	0.00	0.29	-0.01	-0.20	0.04	-0.41	-0.42										
Bay Area	Diablo	CONTRA COSTA 2110	013652110	0.00	0.00	0.02	-0.01	-0.02	0.04	-0.01	-0.47	0.00	0.00	0.11	0.00	-0.08	0.01	-0.12	-0.16	0.00	0.00	0.58	0.00	-0.11	0.02	-0.15	0.00	0.00	0.00	0.74	0.00	-0.11	0.03	-0.20	0.00	0.00	0.00	0.90	0.00	-0.14	0.03	-0.26	0.00										
Bay Area	Diablo	CONTRA COSTA 2112	013652112	0.00	0.00	0.02	-0.01	-0.03	0.06	-0.01	-0.64	0.00	0.00	0.15	0.00	-0.11	0.02	-0.17	-0.22	0.00	0.00	0.22	-0.01	-0.18	0.03	-0.27	-0.29	0.00	0.00	1.02	0.00	-0.14	0.04	-0.28	0.00	0.00	0.00	1.24	0.00	-0.19	0.05	-0.35	0.00										
Bay Area	Diablo	CONTRA COSTA 2113	013652113	0.00	0.00	0.06	0.00	-0.04	0.01	-0.06	-0.13	0.00	0.00	0.11	0.00	-0.09	0.01	-0.13	-0.23	0.00	0.00	0.16	-0.01	-0.14	0.02	-0.20	-0.30	0.00	0.00	0.20	-0.01	-0.15	0.03	-0.27	-0.36	0.00	0.00	0.25	-0.01	-0.20	0.03	-0.34	-0.40										
Bay Area	Diablo	BALFOUR 1101	014321101	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.02	0.00	-0.02	0.00	0.00	0.00	0.04	0.00	-0.03	0.00	-0.03	0.00	0.00	0.00	0.05	0.00	-0.03	0.00	-0.04	0.00	0.00	0.00	0.06	0.00	-0.04	0.01	-0.05	0.00										
Bay Area	Diablo	BRENTWOOD 2105	014592105	0.00	0.00	0.07	0.00	-0.04	0.00	-0.04	-0.01	0.00	0.00	0.13	0.00	-0.09	0.01	-0.09	-0.02	0.00	0.00	0.20	0.00	-0.14	0.01	-0.13	-0.03	0.00	0.00	0.25	0.00	-0.15	0.02	-0.18	-0.03	0.00	0.00	0.30	0.00	-0.19	0.02	-0.24	-0.03										
Bay Area	Diablo	BRENTWOOD 2106	014592106	0.00	0.00	0.03	-0.03	-0.05	0.01	-0.01	-0.71	0.00	0.00	0.07	-0.03	-0.10	0.01	-0.09	-0.60	0.00	0.00	0.11	-0.05	-0.16	0.02	-0.13	-0.78	0.00	0.00	0.14	-0.07	-0.17	0.02	-0.18	-0.92	0.00	0.00	0.16	-0.09	-0.22	0.03	-0.23	-1.04										
Bay Area	Diablo	BRENTWOOD 2108	014592108	0.00	0.00	0.04	0.00	-0.05	0.01	-0.04	-0.28	0.00	0.00	0.08	-0.01	-0.09	0.01	-0.09	-0.52	0.00	0.00	0.13	-0.01	-0.15	0.02	-0.15	-0.68	0.00	0.00	0.16	-0.01	-0.16	0.03	-0.20	-0.80	0.00	0.00	0.19	-0.02	-0.21	0.03	-0.26	-0.90										
Bay Area	Diablo	BRENTWOOD 2109	014592109	0.00	0.00	0.03	-0.01	-0.03	0.00	-0.03	-0.19	0.00	0.00	0.05	-0.02	-0.07	0.01	-0.06	-0.35	0.00	0.00	0.07	-0.02	-0.11	0.01	-0.09	-0.45	0.00	0.00	0.10	-0.03	-0.12	0.02	-0.12	-0.53	0.00	0.00	0.27	0.00	-0.14	0.02	-0.21	-0.03										
Bay Area	Diablo	BRENTWOOD 2110	014592110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
Bay Area	Diablo	BRENTWOOD 2111	014592111	0.00	0.00	0.05	0.00	-0.05	0.01	-0.05	-0.37	0.00	0.00	0.09	-0.01	-0.10	0.01	-0.10	-0.68	0.00	0.00	0.13	-0.01	-0.16	0.02	-0.15	-0.88	0.00	0.00	0.17	-0.02	-0.17	0.03	-0.21	-1.03	0.00	0.00	0.20	-0.02	-0.22	0.04	-0.27	-1.15										
Bay Area	Diablo	BRENTWOOD 2112	014592112	0.00	0.00	0.06	-0.01	-0.07	0.01	-0.06	-0.42	0.00	0.00	0.11	-0.02	-0.13	0.02	-0.12	-0.79	0.00	0.00	0.16	-0.03	-0.22	0.03	-0.19	-1.05	0.00	0.00	0.48	0.00	-0.19	0.04	-0.35	-0.06	0.00	0.00	0.58	0.00	-0.25	0.05	-0.45	-0.07										
Bay Area	Diablo	BRENTWOOD 2113	014592113	0.00	0.00	0.06	-0.01	-0.06	0.01	-0.06	-0.39	0.00	0.00	0.11	-0.01	-0.12	0.02	-0.12	-0.73	0.00	0.00	0.16	-0.02	-0.19	0.02	-0.18	-0.95	0.00	0.00	0.20	-0.02	-0.20	0.03	-0.25	-1.12	0.00	0.00	0.24	-0.03	-0.26	0.04	-0.32	-1.26										
Bay Area	Diablo	PIPER BANK 0401	018120401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Bay Area	Diablo	BETHEL BANK 0401	018150401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	Diablo	JERSEY																																																			

Facility Information				2021										2022										2023										2024										2025									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)		
Central Coast	Mission	RADUM 1102	013151102	0.00	0.00	0.01	-0.01	-0.01	0.00	-0.01	-0.02	0.00	0.00	0.01	-0.01	-0.02	0.00	-0.01	-0.03	0.00	0.00	0.00	0.02	-0.01	-0.03	0.00	-0.02	-0.04	0.00	0.00	0.02	-0.02	-0.03	0.00	0.00	0.00	0.02	-0.02	-0.03	0.00	-0.03	-0.05	0.00	0.00	0.03	-0.03	-0.04	0.01	-0.04	-0.05			
Central Coast	Mission	LIVERMORE 1104	012141104	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	-0.06	0.00	0.00	0.00	0.02	-0.01	-0.03	0.00	-0.03	-0.11	0.00	0.00	0.03	-0.01	-0.04	0.01	-0.04	-0.15	0.00	0.00	0.00	0.03	-0.01	-0.04	-0.02	-0.04	0.01	-0.06	-0.17	0.00	0.00	0.05	-0.02	-0.06	0.01	-0.07	-0.19						
Central Coast	Mission	MISSION STATION O 0401	012240401	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.03	0.00	0.00	-0.03	0.00					
Central Coast	Mission	MISSION STATION O 0402	012240402	0.00	0.00	0.01	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.03	0.00	0.00	-0.03	0.00					
Central Coast	Mission	BANCROFT 0401	013030401	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.08	0.00	-0.01	0.00	-0.04	0.00	0.00	0.00	0.10	0.00	-0.01	0.01	-0.05	0.00	0.00	0.00	0.12	0.00	-0.01	0.01	-0.06	0.00	0.00	-0.06	0.00						
Central Coast	Mission	SAN LEANDRO U 1101	013111101	0.00	0.00	0.00	-0.03	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.06	-0.02	0.01	0.00	-0.01	0.00	0.00	0.00	-0.10	-0.03	0.01	0.00	-0.01	0.00	0.00	0.00	-0.13	-0.03	0.01	0.00	-0.01	0.00	0.00	0.00	-0.16	-0.04	0.02	0.00	-0.01	0.00	-0.01	0.00	-0.01					
Central Coast	Mission	SAN LEANDRO U 1102	013111102	0.00	0.00	0.02	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.00	0.04	0.00	-0.02	0.00	-0.05	0.00	0.00	0.00	0.05	0.00	-0.04	0.01	-0.07	0.00	0.00	0.00	0.07	0.00	-0.04	0.01	-0.10	0.00	0.00	0.00	0.08	0.00	-0.05	0.01	-0.12	0.00	0.00	-0.12	0.00						
Central Coast	Mission	SAN LEANDRO U 1103	013111103	0.00	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.04	-0.02	0.01	0.00	0.00	0.00	0.00	0.00	-0.06	-0.02	0.01	0.00	0.00	0.00	0.00	0.00	-0.08	-0.02	0.01	0.00	0.00	0.00	0.00	-0.02	0.00					
Central Coast	Mission	SAN LEANDRO U 1104	013111104	0.00	0.00	0.00	-0.01	-0.02	0.00	0.00	-0.05	0.00	0.00	0.00	0.01	-0.03	-0.03	0.00	0.00	-0.10	0.00	0.00	0.01	-0.02	-0.05	0.00	-0.14	0.00	0.00	0.00	0.02	-0.06	-0.05	0.00	0.00	-0.18	0.00	0.00	0.02	-0.07	-0.06	0.01	-0.01	-0.21									
Central Coast	Mission	SAN LEANDRO U 1105	013111105	0.00	0.00	0.01	-0.01	-0.01	0.00	-0.01	0.00	0.00	0.00	0.00	-0.02	-0.01	-0.02	0.00	-0.01	-0.01	0.00	0.00	-0.01	-0.02	-0.04	0.00	-0.02	-0.01	0.00	0.00	0.00	-0.01	-0.03	-0.04	0.01	-0.03	-0.01	0.00	0.00	-0.03	-0.05	0.01	-0.04	-0.01	0.00	-0.04	-0.01						
Central Coast	Mission	SAN LEANDRO U 1106	013111106	0.00	0.00	0.01	-0.02	-0.01	0.01	0.00	-0.05	0.00	0.00	0.00	0.01	-0.04	-0.03	0.02	0.00	-0.10	0.00	0.00	0.02	-0.06	-0.04	0.03	-0.01	-0.13	0.00	0.00	0.03	-0.08	-0.04	0.04	-0.01	-0.16	0.00	0.00	0.03	-0.10	-0.06	0.05	-0.01	-0.19									
Central Coast	Mission	SAN LEANDRO U 1108	013111108	0.00	0.00	0.01	-0.01	-0.01	0.00	-0.01	-0.03	0.00	0.00	0.00	0.02	-0.02	-0.03	0.00	0.00	-0.09	0.00	0.00	0.03	-0.03	-0.04	0.01	-0.01	-0.13	0.00	0.00	0.03	-0.04	-0.04	0.01	-0.01	-0.15	0.00	0.00	0.04	-0.05	-0.05	0.01	-0.01	-0.18									
Central Coast	Mission	SAN LEANDRO U 1110	013111110	0.00	0.00	0.02	-0.02	-0.02	0.03	0.00	-0.17	0.00	0.00	0.11	0.00	-0.04	0.01	-0.07	0.00	0.00	0.00	0.17	0.00	-0.06	0.01	-0.11	0.00	0.00	0.00	0.21	0.00	-0.06	0.02	-0.16	0.00	0.00	0.00	0.25	0.00	-0.07	0.02	-0.20	0.00	0.00	-0.10								
Central Coast	Mission	SAN LEANDRO U 1111	013111111	0.00	0.00	0.00	-0.01	-0.02	0.00	0.00	-0.03	0.00	0.00	0.00	-0.02	-0.03	0.01	0.00	-0.05	0.00	0.00	0.01	-0.03	-0.05	0.01	0.00	-0.07	0.00	0.00	0.01	-0.04	-0.05	0.01	0.00	-0.09	0.00	0.00	0.01	-0.05	-0.06	0.02	0.00	-0.10										
Central Coast	Mission	SAN LEANDRO U 1113	013111113	0.00	0.00	0.01	-0.01	-0.01	0.00	-0.01	-0.03	0.00	0.00	0.00	0.02	-0.01	-0.02	0.00	-0.02	-0.06	0.00	0.00	0.07	0.00	-0.03	0.01	-0.05	0.00	0.00	0.00	0.09	0.00	-0.03	0.01	-0.07	0.00	0.00	0.00	0.11	0.00	-0.03	0.01	-0.09	0.00	0.00	-0.09	0.00						
Central Coast	Mission	SAN LEANDRO U 1115	013111115	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04	-0.01	0.00	0.00	0.00	0.00	0.00	-0.06	-0.02	0.00	0.00	0.00	0.00	0.00	0.00							
Central Coast	Mission	SAN LEANDRO U 1151	013111151	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.02	0.00	-0.04	0.00	0.00	0.00	0.08	0.00	-0.03	0.01	-0.06	0.00	0.00	0.00	0.11	0.00	-0.03	0.01	-0.08	0.00	0.00	0.00	0.25	0.00	-0.03	0.01	-0.08	0.00	0.00	-0.03	0.00							
Central Coast	Mission	SOTO 0401	013260401	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.02	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.08	0.00	-0.01	0.00	-0.02	0.00	0.00	0.10	0.00	-0.01	0.00	-0.03	0.00	0.00	-0.03	0.00							
Central Coast	Mission	SOTO 0402	013260402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	-0.01	0.00	0.00	0.00	-0.01	0.00	-0.01	-0.01	0.00	0.00	0.00	0.01	-0.01	-0.01	0.00	-0.01	-0.02	0.00	0.00	0.01	-0.02	-0.01	0.00	-0.01	-0.02									
Central Coast	Mission	SAN LORENZO 0401	013460401	0.00	0.00	0.02	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.00	-0.01	0.00	0.00	0.05	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.09	0.00	-0.01	0.00	-0.02	0.00	0.00	0.11	0.00	-0.01	0.00	-0.03	0.00	0.00	-0.03	0.00								
Central Coast	Mission	SAN LORENZO 0402	013460402	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	-0.03	0.00	0.00	-0.03	0.00							
Central Coast	Mission	ESTUDILLO 0401	013480401	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.04	0.00	-0.01	0.00	-0.03	0.00	0.00	-0.03	0.00								
Central Coast	Mission	PARSONS 0401	013660401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	-0.01	0.00							
Central Coast	Mission	PARSONS 0402	013660402	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.03	0.00	-0.01	0.00	-0.03	0.00	0.00	-0.03	0.00								
Central Coast	Mission	MT EDEN 1101	013761101	0.00	0.00	0.01	-0.03	-0.02	0.01	0.00	-0.09	0.00	0.00	0.01	-0.05	-0.04	0.00	0.00	-0.14	0.00	0.00	0.02	-0.08	-0.06	0.01	-0.01	-0.19	0.00	0.00	0.02	-0.11	-0.06	0.01	-0.01	-0.23	0.00	0.00	0.03	-0.14	-0.08	0.01	-0.01	-0.27										
Central Coast	Mission	MT EDEN 1102	013761102	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	-0.05	0.00	0.00	0.02	-0.01	-0.01	0.00	-0.02	-0.08	0.00	0.00	0.05	0.00	-0.02	0.00	-0.04	0.00	0.00	0.00	0.07	0.00	-0.02	0.01	-0.05	0.00	0.00	0.08	0.00	-0.03	0.01	-0.06	0.00	0.00	-0.06	0.00								
Central Coast	Mission	MT EDEN 1103	013761103	0.00	0.00																																																

Facility Information				2021										2022										2023										2024										2025									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	V Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)										
Central Coast	San Jose	DIXON LANDING 2103	014722103	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.07	0.01	-0.01	0.00	0.00	0.00	0.01	-0.01	-0.09	0.01	-0.01	0.00									
Central Coast	San Jose	MILPITAS 2111	082832111	0.00	0.00	0.00	-0.01	-0.03	0.00	0.00	-0.04	0.00	0.00	0.01	-0.03	-0.05	0.00	0.00	-0.08	0.00	0.00	0.01	-0.04	-0.08	0.00	0.00	-0.10	0.00	0.00	0.01	-0.05	-0.08	0.00	0.00	-0.11	0.00	0.00	0.01	-0.07	-0.11	0.00	0.00	-0.13										
Central Coast	San Jose	MILPITAS 2113	082832113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	-0.02	0.00	-0.01	-0.01	0.00	0.00	0.01	-0.01	-0.04	0.00	-0.01	-0.01	0.00	0.00	0.01	-0.01	-0.04	0.00	-0.02	-0.02	0.00	0.00	0.02	-0.01	-0.05	0.00	-0.02											
Central Coast	San Jose	MILPITAS 2115	082832115	0.00	0.00	0.00	-0.01	-0.05	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.10	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.16	0.00	0.00	0.00	0.00	0.00	-0.03	-0.16	0.00	0.00	0.00	0.00	0.00	0.00	-0.04	-0.21	0.00	0.00	0.00											
Central Coast	San Jose	MONTAGUE 2102	083892102	0.00	0.00	0.00	-0.01	-0.02	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	-0.03	-0.05	0.01	0.00	-0.03	0.00	0.01	-0.04	-0.07	0.01	0.00	-0.04	0.00	0.00	0.01	-0.06	-0.07	0.01	0.00	-0.05	0.00	0.00	0.01	-0.07	-0.09	0.02	0.00	-0.06										
Central Coast	San Jose	MONTAGUE 2104	083892104	0.00	0.00	0.01	-0.02	-0.03	0.00	0.00	-0.03	0.00	0.00	0.02	-0.04	-0.06	0.01	-0.01	-0.06	0.00	0.00	0.04	-0.05	-0.09	0.01	-0.04	-0.06	0.00	0.00	0.05	-0.06	-0.09	0.01	-0.06	-0.07	0.00	0.00	0.06	-0.08	-0.11	0.01	-0.07											
Central Coast	San Jose	MONTAGUE 2106	083892106	0.00	0.00	0.00	-0.01	-0.02	0.01	0.00	-0.06	0.00	0.00	0.00	0.00	-0.03	-0.04	0.02	0.00	-0.11	0.00	0.01	-0.04	-0.05	0.02	0.00	-0.15	0.00	0.00	0.01	-0.06	-0.05	0.03	0.00	-0.17	0.00	0.00	0.01	-0.08	-0.07	0.04	0.00	-0.19										
Central Coast	San Jose	MONTAGUE 2108	083892108	0.00	0.00	0.03	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.06	0.00	-0.02	0.00	-0.03	0.00	0.00	0.00	0.09	0.00	-0.03	0.01	-0.05	0.00	0.00	0.00	0.12	0.00	-0.03	0.01	-0.06	0.00	0.00	0.00	0.15	0.00	-0.04	0.01	-0.08											
Central Coast	San Jose	DIXON LANDING 2102	014722102	0.00	0.00	0.01	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.02	0.00	-0.02	0.00	-0.03	0.00	0.00	0.00	0.04	0.00	-0.03	0.01	-0.05	0.00	0.00	0.05	0.00	-0.03	0.01	-0.07	-0.01	0.00	0.00	0.05	0.00	-0.04	0.01													

Facility Information				2021								2022								2023								2024								2025								
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	
Central Coast	San Jose	MILPITAS 1109	082831109	0.00	0.00	0.02	-0.01	-0.02	0.00	-0.02	-0.10	0.00	0.00	0.04	-0.02	-0.04	0.01	-0.05	-0.19	0.00	0.00	0.15	0.00	-0.06	0.01	-0.11	-0.01	0.00	0.00	0.19	0.00	-0.06	0.02	-0.15	0.00	0.00	0.00	0.23	0.00	-0.08	0.02	-0.19	0.00	
Central Coast	San Jose	MILPITAS 1105	082831105	0.00	0.00	0.02	-0.01	-0.02	0.00	-0.02	-0.07	0.00	0.00	0.04	-0.01	-0.04	0.01	-0.04	-0.13	0.00	0.00	0.06	-0.02	-0.06	0.01	-0.07	-0.17	0.00	0.00	0.07	-0.02	-0.06	0.01	-0.09	-0.20	0.00	0.00	0.09	-0.03	-0.08	0.02	-0.12	-0.22	
Central Coast	San Jose	MILPITAS 1106	082831106	0.00	0.00	0.01	-0.01	-0.02	0.00	-0.01	-0.04	0.00	0.00	0.01	-0.02	-0.03	0.00	-0.01	-0.07	0.00	0.00	0.02	-0.03	-0.05	0.00	-0.02	-0.09	0.00	0.00	0.03	-0.03	-0.05	0.01	-0.03	-0.10	0.00	0.00	0.03	-0.04	-0.07	0.01	-0.04	-0.11	
Central Coast	San Jose	MILPITAS 1101	082831101	0.00	0.00	0.02	-0.01	-0.02	0.00	-0.02	-0.08	0.00	0.00	0.04	-0.01	-0.03	0.01	-0.04	-0.14	0.00	0.00	0.05	-0.02	-0.05	0.01	-0.06	-0.19	0.00	0.00	0.07	-0.03	-0.05	0.01	-0.09	-0.22	0.00	0.00	0.08	-0.03	-0.07	0.02	-0.11	-0.25	
Central Coast	San Jose	LLAGAS 2102	083182102	0.00	0.00	0.02	-0.02	-0.04	0.00	-0.02	-0.23	0.00	0.00	0.04	-0.04	-0.07	0.01	-0.04	-0.42	0.00	0.00	0.07	-0.04	-0.11	0.01	-0.08	-0.33	0.00	0.00	0.08	-0.06	-0.11	0.02	-0.12	-0.38	0.00	0.00	0.10	-0.07	-0.14	0.02	-0.15	-0.43	
Central Coast	San Jose	LLAGAS 2104	083182104	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	-0.02	0.00	0.00	0.00	-0.01	-0.02	0.00	0.00	-0.04	0.00	0.00	0.00	-0.01	-0.03	0.01	0.00	-0.06	0.00	0.00	0.00	-0.02	-0.03	0.01	0.00	-0.07	0.00	0.00	0.00	-0.02	-0.04	0.01	0.00	-0.07	
Central Coast	San Jose	LLAGAS 2106	083182106	0.00	0.00	0.00	-0.02	-0.04	0.00	0.00	-0.01	0.00	0.00	0.00	-0.04	-0.09	0.01	0.00	-0.01	0.00	0.00	0.00	-0.06	-0.14	0.01	0.00	-0.02	0.00	0.00	0.00	-0.08	-0.14	0.01	0.00	-0.02	0.00	0.00	0.00	-0.10	-0.18	0.02	0.00	-0.02	
Central Coast	San Jose	MORGAN HILL 2105	083242105	0.00	0.00	0.02	-0.02	-0.04	0.04	0.04	-0.01	-0.60	0.00	0.00	0.05	-0.03	-0.08	0.08	-0.01	-1.11	0.00	0.00	0.07	-0.05	-0.13	0.12	-0.02	-1.45	0.00	0.00	0.09	-0.06	-0.13	0.17	-0.02	-1.70	0.00	0.00	0.10	-0.08	-0.16	0.22	-0.03	-1.92
Central Coast	San Jose	MORGAN HILL 2108	083242108	0.00	0.00	0.01	-0.02	-0.05	0.00	0.00	-0.01	0.00	0.00	0.02	-0.04	-0.11	0.01	-0.01	-0.21	0.00	0.00	0.03	-0.06	-0.16	0.01	-0.01	-0.35	0.00	0.00	0.04	-0.08	-0.16	0.01	-0.01	-0.45	0.00	0.00	0.05	-0.10	-0.21	0.01	-0.01	-0.54	
Central Coast	San Jose	MORGAN HILL 2110	083242110	0.00	0.00	0.01	-0.02	-0.03	0.00	0.00	-0.10	0.00	0.00	0.02	-0.05	-0.07	0.00	0.00	-0.18	0.00	0.00	0.03	-0.07	-0.10	0.01	-0.01	-0.24	0.00	0.00	0.04	-0.09	-0.10	0.01	-0.01	-0.28	0.00	0.00	0.04	-0.12	-0.13	0.01	-0.01	-0.32	
Central Coast	San Jose	MORGAN HILL 2109	083242109	0.00	0.00	0.03	-0.01	-0.05	0.01	-0.04	-0.13	0.00	0.00	0.07	-0.02	-0.11	0.01	-0.08	-0.23	0.00	0.00	0.10	-0.03	-0.16	0.02	-0.12	-0.29	0.00	0.00	0.12	-0.04	-0.16	0.02	-0.16	-0.34	0.00	0.00	0.15	-0.05	-0.21	0.03	-0.21	-1.38	
Central Coast	San Jose	LLAGAS 2105	083182105	0.00	0.00	0.04	-0.01	-0.04	0.01	-0.04	-0.30	0.00	0.00	-0.26	-0.03	-0.09	0.01	-0.07	-0.57	0.00	0.00	-0.11	-0.04	-0.14	0.02	-0.12	-0.75	0.00	0.00	0.00	-0.06	-0.14	0.02	-0.16	-0.89	0.00	0.00	0.09	-0.07	-0.18	0.03	-0.20	-0.12	
Central Coast	San Jose	LLAGAS 2103	083182103	0.00	0.00	0.04	-0.01	-0.05	0.01	-0.04	-0.38	0.00	0.00	0.07	-0.03	-0.09	0.01	-0.08	-0.71	0.00	0.00	0.11	-0.04	-0.14	0.02	-0.13	-0.93	0.00	0.00	0.14	-0.05	-0.14	0.02	-0.18	-1.10	0.00	0.00	0.16	-0.07	-0.20	0.03	-0.23	-1.21	
Central Coast	San Jose	MORGAN HILL 2104	083242104	0.00	0.00	0.02	-0.04	-0.05	0.03	0.00	-0.71	0.00	0.00	0.04	-0.08	-0.09	0.07	-0.01	-1.31	0.00	0.00	0.06	-0.12	-0.14	0.11	-0.02	-1.71	0.00	0.00	0.07	-0.16	-0.14	0.15	-0.02	-2.00	0.00	0.00	0.09	-0.21	-0.18	0.19	-0.03	-2.24	
Central Coast	San Jose	MORGAN HILL 2111	083242111	0.00	0.00	0.02	-0.01	-0.05	0.00	-0.01	-0.17	0.00	0.00	0.03	-0.03	-0.09	0.01	-0.03	-0.32	0.00	0.00	0.04	-0.04	-0.14	0.01	-0.05	-0.41	0.00	0.00	0.06	-0.05	-0.14	0.01	-0.06	-0.49	0.00	0.00	0.11	0.00	-0.15	0.02	-0.16	-0.02	
Central Coast	San Jose	LLAGAS 2107	083182107	0.00	0.00	0.03	-0.01	-0.04	0.04	0.00	-0.03	-0.26	0.00	0.00	0.05	-0.01	-0.08	0.01	-0.06	-0.48	0.00	0.00	0.08	-0.02	-0.12	0.01	-0.10	-0.63	0.00	0.00	0.10	-0.03	-0.12	0.02	-0.13	-0.75	0.00	0.00	0.12	-0.04	-0.16	0.02	-0.17	-0.84
Central Coast	San Jose	LLAGAS 2101	083182101	0.00	0.00	0.03	0.00	-0.03	0.00	-0.02	-0.01	0.00	0.00	0.06	0.00	-0.06	0.01	-0.05	-0.01	0.00	0.00	0.09	0.00	-0.10	0.01	-0.08	-0.01	0.00	0.00	0.12	-0.01	-0.10	0.01	-0.11	-0.02	0.00	0.00	0.14	-0.01	-0.13	0.01	-0.13	-0.02	
Central Coast	San Jose	MORGAN HILL 2106	083242106	0.00	0.00	0.01	-0.02	-0.03	0.00	0.00	-0.15	0.00	0.00	1.02	-0.04	-0.06	0.01	-0.01	-0.28	0.00	0.00	1.03	-0.07	-0.09	0.01	-0.01	-0.37	0.00	0.00	1.04	-0.09	-0.09	0.01	-0.01	-0.43	0.00	0.00	1.05	-0.11	-0.11	0.01	-0.01	-0.48	
Central Coast	San Jose	HICKS 1114	083431114	0.00	0.00	0.01	0.00	-0.02	0.00	-0.01	-0.09	0.00	0.00	0.02	0.00	-0.04	0.00	-0.02	-0.16	0.00	0.00	0.03	-0.01	-0.07	0.01	-0.03	-0.21	0.00	0.00	0.04	-0.01	-0.07	0.01	-0.04	-0.25	0.00	0.00	0.04	-0.01	-0.09	0.01	-0.05	-0.28	
Central Coast	San Jose	EL PATIO 1104	082921104	0.00	0.00	0.02	-0.01	-0.02	0.00	-0.01	-0.06	0.00	0.00	0.03	-0.02	-0.04	0.01	-0.03	-0.11	0.00	0.00	0.04	-0.03	-0.06	0.01	-0.04	-0.14	0.00	0.00	0.05	-0.04	-0.06	0.01	-0.06	-0.16	0.00	0.00	0.07	-0.05	-0.08	0.02	-0.08	-0.18	
Central Coast	San Jose	ALMADEN 1101	082311101	0.00	0.00	0.02	0.00	-0.03	0.00	-0.02	-0.16	0.00	0.00	0.04	-0.01	-0.06	0.01	-0.03	-0.29	0.00	0.00	0.05	-0.01	-0.09	0.01	-0.05	-0.38	0.00	0.00	0.07	-0.01	-0.10	0.01	-0.07	-0.44	0.00	0.00	0.08	-0.01	-0.12	0.02	-0.09	-0.50	
Central Coast	San Jose	EL PATIO 1117 (previously 1114)	082921117	0.00	0.00	0.01	-0.01	-0.01	0.00	0.00	-0.03	0.00	0.00	0.01	-0.03	-0.02	0.00	0.00	-0.05	0.00	0.00	0.02	-0.04	-0.03	0.00	0.00	-0.07	0.00	0.00	0.02	-0.06	-0.03	0.01	-0.01	-0.08	0.00	0.00	0.03	-0.07	-0.03	0.01	-0.01	-0.09	
Central Coast	San Jose	HICKS 1113	083431113	0.00	0.00	0.02	-0.01	-0.03	0.00	-0.01	-0.17	0.00	0.00	0.04	-0.01	-0.06	0.01	-0.04	-0.19	0.00	0.00	0.06	-0.02	-0.09	0.01	-0.07	-0.24	0.00	0.00	0.07	-0.02	-0.09	0.01	-0.09	-0.28	0.00	0.00	0.09	-0.03	-0.12	0.02	-0.12	-0.32	
Central Coast	San Jose	HICKS 1111	083431111	0.00	0.00	0.02	0.00	-0.03	0.00	-0.02	-0.23	0.00	0.00	0.04	-0.01	-0.06	0.01	-0.03	-0.43	0.00	0.00	0.07	-0.01	-0.09	0.01	-0.08	-0.34	0.00	0.00	0.09	-0.01	-0.09	0.02	-0.11	-0.40	0.00	0.00	0.11	-0.01	-0.12	0.02	-0.14	-0.45	
Central Coast	San Jose	EL PATIO 1113	082921113	0.00	0.00	0.01	-0.02	-0.02	0.00	-0.01	0.00	0.00	0.00	0.02	-0.04	-0.03	0.00	-0.02	0.00	0.00	0.00	0.03	-0.06	-0.05	0.01	-0.03	0.00	0.00	0.00	0.03	-0.08	-0.05	0.01	-0.04	-0.01	0.00	0.04	-0.10	-0.07	0.01	-0.05	-0.01		
Central Coast	San Jose	EL PATIO 1114 (previously 1115)	082921114	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	-0.01	-0.02	0.00	-0.01	0.00	0.00	0.00	0.01	-0.01	-0.04	0.00	-0.01	0.00	0.00	0.00	0.02	-0.02	-0.04	0.00	-0.02	0.00	0.00	0.02	-0.02	-0.05	0.01	-0.02	0.00		
Central Coast	San Jose	ALMADEN 1102	082311102	0.00	0.00	0.02	-0.01	-0.03	0.00	-0.03	-0.10	0.00	0.00	0.05	-0.01	-0.07	0.01	-0.05	-0.18	0.00	0.00	0.07	-0.02	-0.11	0.01	-0.08	-0.23	0.00	0.00	0.09	-0.03	-0.11	0.02	-0.11	-0.27	0.00	0.00	0.11	-0.04	-0.14	0.02	-0.15	-0.30	
Central Coast	San Jose	EL PATIO 1108	082921108	0.00	0.00	-0.45	0.00	-0.11	0.00	-0.01	-0.02	0.00	0.00	-0.46	-0.01	-0.22	0.00	-0.02	-0.04	0.00	0.00	-0.46	-0.01	-0.35	0.00	-0.03	-0.05	0.00	0.00	-0.44	-0.01	-0.35	0.01	-0.04	-0.06	0.00	-0.45	-0.02	-0.46	0.01	-0.05	-0.06		
Central Coast	San Jose	EL PATIO 1109	082921109	0.00	0.00	0.02	-0.01																																					

Facility Information				2021										2022										2023										2024										2025									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)		
Bay Area	San Francisco	SF K 1101	022131101	0.00	0.00	0.03	0.00	-0.02	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.05	0.00	-0.04	0.00	0.00	0.00	0.09	0.00	-0.07	0.01	-0.07	0.00	0.00	0.00	0.11	0.00	-0.07	0.01	-0.09	0.00	0.00	0.00	0.26	0.00	-0.08	0.01	-0.09	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.01	0.00		
Bay Area	San Francisco	SF N 0402	022280402	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Bay Area	San Francisco	SF N 0403	022280403	0.00	0.00	0.01	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	SF N 0408	022280408	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.09	0.00	-0.01	0.00	-0.04	0.00	0.00	0.00	0.14	0.00	-0.01	0.00	0.01	-0.04	0.00	0.00	0.00	0.00	0.00	0.00			
Bay Area	San Francisco	JUDAH 0401	022400401	0.00	0.00	0.02	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.09	0.00	-0.01	0.00	-0.04	0.00	0.00	0.00	0.11	0.00	-0.02	0.00	0.01	-0.06	0.00	0.00	0.00	0.00	0.00	0.00			
Bay Area	San Francisco	SF N 0405	022280405	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	SF K 0401	022130401	0.00	0.00	0.01	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	SF N 0401	022280401	0.00	0.00	0.03	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.08	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.10	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.12	0.00	-0.01	0.00	0.01	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	21ST AVENUE 0402	022550402	0.00	0.00	0.02	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.09	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.11	0.00	-0.01	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	MISSION (SF X) 1107	022011107	0.00	0.00	MISSION (SF X) 1107	0.00	-0.04	-0.01	0.02	0.00	0.00	0.00	0.00	0.01	-0.06	-0.03	0.00	0.00	-0.01	0.00	0.00	0.02	-0.09	-0.04	0.01	-0.01	-0.01	0.00	0.00	0.02	-0.13	-0.04	0.01	-0.01	-0.01	0.00	0.00	0.03	-0.16	-0.05	0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Bay Area	San Francisco	MISSION (SF X) 1109	022011109	0.00	0.00	0.02	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.05	0.01	-0.06	0.00	0.00	0.00	0.08	0.00	-0.05	0.01	-0.08	0.00	0.00	0.00	0.10	0.00	-0.06	0.00	0.01	-0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	SF G 0408	022090408	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	SF N 1101	022281101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.12	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	-0.14	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	-0.19	0.00	0.00	-0.01	-0.01	0.00	-0.12	0.00	0.00	0.00	0.01	-0.01	-0.01	0.00	-0.01	-0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Bay Area	San Francisco	SF K 0409	022130409	0.00	0.00	0.01	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	SF G 0405	022090405	0.00	0.00	0.01	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	MISSION (SF X) 1116	022011116	0.00	0.00	MISSION (SF X) 1116	0.00	0.05	0.00	-0.05	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	-0.14	0.01	-0.07	0.00	0.00	0.00	0.18	0.00	-0.15	0.01	-0.09	0.00	0.00	0.00	0.22	0.00	-0.18	0.01	-0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bay Area	San Francisco	SF K 0402	022130402	0.00	0.00	0.01	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	SF K 0410	022130410	0.00	0.00	0.01	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	MISSION (SF X) 1102	022011102	0.00	0.00	0.00	-0.03	-0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	-0.06	-0.04	0.02	0.00	0.00	0.00	0.00	0.01	-0.09	-0.05	0.03	0.00	0.00	0.00	0.00	0.01	-0.13	-0.05	0.04	-0.01	0.00	0.00	0.00	0.01	-0.16	-0.07	0.04	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Bay Area	San Francisco	JUDAH 0402	022400402	0.00	0.00	0.02	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	SF G 0401	022090401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	SF G 0409	022090409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	-0.01	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	SF G 0413	022090413	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bay Area	San Francisco	SF K 0405	022130405	0.00	0.00	0.01	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.04																						

Facility Information				2021										2022										2023										2024										2025									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)										
Bay Area	San Francisco	SILVER 0401	022670401	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.09	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.11	0.00	-0.01	0.00	-0.03	0.00									
Bay Area	San Francisco	OCEAN 0401	022580401	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.08	0.00	-0.01	0.00	-0.04	0.00	0.00	0.00	0.13	0.00	-0.01	0.01	-0.04	0.00									
Bay Area	San Francisco	MARTIN (SF H) 1105	022101105	0.00	0.00	0.04	0.00	-0.02	0.00	-0.03	0.00	0.00	0.00	0.00	0.12	0.00	-0.03	0.01	-0.06	0.00	0.00	0.00	0.18	0.00	-0.05	0.01	-0.09	0.00	0.00	0.00	0.23	0.00	-0.05	0.01	-0.12	0.00	0.00	0.00	0.27	0.00	-0.07	0.02	-0.16	0.00									
Bay Area	San Francisco	SF M 0405 (M5)	022270405	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.08	0.00	-0.01	0.00	-0.04	0.00									
Bay Area	San Francisco	MARTIN (SF H) 1109	022101109	0.00	0.00	0.02	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.00	0.03	0.00	-0.02	0.00	-0.04	0.00	0.00	0.00	0.05	0.00	-0.03	0.01	-0.06	0.00	0.00	0.00	0.06	0.00	-0.03	0.01	-0.09	0.00	0.00	0.00	0.07	0.00	-0.04	0.01	-0.11	0.00									
Bay Area	San Francisco	MARTIN (SF H) 0402	022100402	0.00	0.00	0.00	0.00	0.00	0.01	0.00	-0.04	0.00	0.00	0.00	0.01	-0.01	-0.01	0.02	0.00	-0.07	0.00	0.00	0.01	-0.01	-0.01	0.03	0.00	-0.09	0.00	0.00	0.16	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.19	0.00	-0.01	0.01	-0.01	0.00									
Bay Area	San Francisco	SF L 0408	022260408	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.03	0.00									
Bay Area	San Francisco	NORIEGA 0401	022510401	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00									
Bay Area	San Francisco	MARTIN (SF H) 0405	022100405	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.02	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.01	0.00																									

Facility Information				2021												2022												2023												2024												2025											
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)																				
Central Coast	Peninsula	RANDOLPH 0403	022590403	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.08	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.10	0.00	-0.01	0.00	-0.03	0.00																			
Central Coast	Peninsula	WESTLAKE 0403	022600403	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00																			
Central Coast	Peninsula	DALY CITY 0401	022640401	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.03	0.00	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	-0.04	0.00	0.00	0.00	0.09	0.00	-0.01	0.01	-0.05	0.00																			
Central Coast	Peninsula	DALY CITY 1101	022641101	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.03	0.00	-0.04	0.00	0.00	0.00	0.08	0.00	-0.04	0.01	-0.05	0.00	0.00	0.00	0.10	0.00	-0.04	0.01	-0.07	0.00	0.00	0.00	0.12	0.00	-0.05	0.01	-0.09	0.00																				
Central Coast	Peninsula	DALY CITY 1103	022641103	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	-0.02	0.00	-0.03	0.00	0.00	0.00	0.02	0.00	-0.03	0.00	-0.04	0.00	0.00	0.00	0.04	0.00	-0.03	0.01	-0.06	0.00	0.00	0.00	0.06	0.00	-0.04	0.01	-0.07	0.00																				
Central Coast	Peninsula	DALY CITY 1105	022641105	0.00	0.00	0.02	0.00	-0.02	0.00	-0.02	0.00	0.00	0.00	0.03	0.00	-0.03	0.01	-0.05	0.00	0.00	0.00	0.08	0.00	-0.05	0.01	-0.08	0.00	0.00	0.00	0.12	0.00	-0.05	0.01	-0.11	0.00	0.00	0.00	0.16	0.00	-0.06	0.01	-0.14	0.00																				
Central Coast	Peninsula	DALY CITY 1106	022641106	0.00	0.00	0.05	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.10	0.00	-0.03	0.01	-0.06	0.00	0.00	0.00	0.15	0.00	-0.04	0.01	-0.09	0.00	0.00	0.00	0.19	0.00	-0.04	0.01	-0.12	0.00	0.00	0.00	0.23	0.00	-0.05	0.02	-0.15	0.00																				
Central Coast	Peninsula	DALY CITY 1109	022641109	0.00	0.00	0.10	0.00	-0.02	0.00	-0.04	0.00	0.00	0.00	0.12	0.00	-0.03	0.01	-0.09	0.00	0.00	0.00	0.24	0.00	-0.05	0.01	-0.13	0.00	0.00	0.00	0.34	0.00	-0.05	0.02	-0.18	0.00	0.00	0.00	0.47	0.00	-0.06	0.02	-0.18	0.00																				
Central Coast	Peninsula	DALY CITY 1112	022641112	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.03	0.00	-0.03	0.01	-0.07	0.00	0.00	0.00	0.05	0.00	-0.04	0.01	-0.11	0.00	0.00	0.00	0.06	0.00	-0.05	0.02	-0.15																													

PG&E 2021 Grid Needs Assessment (GNA)
Appendix D: GNA Results - DER Growth Forecast
Version Date: 08/16/21
Public

Facility Information				2021										2022										2023										2024										2025											
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)												
Central Coast	Peninsula	BELLE HAVEN 0401	024020401	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	-0.01	0.00	-0.04	0.00	0.00	0.00	0.10	0.00	-0.01	0.01	-0.05	0.00	0.00	0.00	0.12	0.00	-0.02	0.01	-0.06	0.00			
Central Coast	Peninsula	BELLE HAVEN 0407	024020407	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.09	0.00	-0.01	0.00	-0.04	0.00		
Central Coast	Peninsula	EMERALD LAKE 0402	024080402	0.00	0.00	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.08	0.00	-0.01	0.00	-0.04	0.00	0.00	0.00	0.10	0.00	-0.01	0.01	-0.05	0.00		
Central Coast	Peninsula	GLENWOOD 0405	024090405	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.02	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.04	0.00		
Central Coast	Peninsula	BELLE HAVEN 1101	024021101	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04	0.00	0.00	0.00		
Central Coast	Peninsula	BELLE HAVEN 1103	024021103	0.00	0.00	0.00	-0.01	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04	-0.05	0.01	0.00	0.00	0.00	0.00	0.00	-0.06	-0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.08	-0.06	0.01	0.00	0.00	0.00
Central Coast	Peninsula	BELLE HAVEN 1106	024021106	0.00	0.00	0.01	-0.02	-0.02	0.00	0.00	-0.04	0.00	0.00	0.00	-1.91	-0.05	-0.05	0.01	-0.01	-0.07	0.00	0.00	-1.84	-0.07	-0.08	0.01	-0.01	-0.09	0.00	0.00	0.00	-1.68	-0.10	-0.08	0.01	-0.01	-0.11	0.00	0.00	-1.55	-0.12	-0.10	0.01	-0.01	-0.01	-0.12	0.01	-0.01	-0.01	-0.01	-0.12	0.00			
Central Coast	Peninsula	GLENWOOD 1101	024091101	0.00	0.00	0.01	0.00	-0.02	0.00	0.00	-0.03	0.0																																											

Facility Information				2021										2022										2023										2024										2025									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)		
Bay Area	North Bay	ALTO 1125	042031125	0.00	0.00	0.02	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.04	0.00	-0.02	0.00	-0.05	0.00	0.00	0.00	0.06	0.00	-0.03	0.01	-0.07	0.00	0.00	0.00	0.08	0.00	-0.03	0.01	-0.09	0.00	0.00	0.00	0.10	0.00	-0.04	0.01	-0.12	0.00	0.00	0.00	0.02	0.00	-0.01	0.00				
Bay Area	North Bay	SAUSALITO 0402	042490402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	-0.01	0.00							
Bay Area	North Bay	NORTH TOWER 1102	042041102	0.00	0.00	0.01	-0.01	-0.02	0.02	0.00	-0.36	0.00	0.00	0.03	-0.03	-0.04	0.03	-0.01	-0.43	0.00	0.00	0.05	-0.04	-0.07	0.05	-0.01	-0.49	0.00	0.00	0.06	-0.05	-0.07	0.07	-0.01	-0.57	0.00	0.00	0.08	-0.06	-0.09	0.09	-0.02	-0.65	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	NORTH TOWER 1104	042041104	0.00	0.00	0.01	-0.03	-0.02	0.01	0.00	-0.31	0.00	0.00	0.02	-0.06	-0.05	0.03	-0.01	-0.37	0.00	0.00	0.03	-0.08	-0.07	0.04	-0.01	-0.43	0.00	0.00	0.05	-0.11	-0.07	0.05	-0.01	-0.50	0.00	0.00	0.06	-0.14	-0.10	0.07	-0.01	-0.58	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	PARKWAY 1101	042051101	0.00	0.00	0.01	-0.01	-0.02	0.01	0.00	-0.21	0.00	0.00	0.01	-0.03	-0.04	0.01	0.00	-0.26	0.00	0.00	0.02	-0.04	-0.06	0.00	0.00	-0.26	0.00	0.00	0.03	-0.05	-0.06	0.01	-0.01	-0.30	0.00	0.00	0.04	-0.06	-0.08	0.01	-0.01	-0.35	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	PARKWAY 1103	042051103	0.00	0.00	0.01	-0.03	-0.04	0.01	0.00	-0.29	0.00	0.00	0.02	-0.05	-0.07	0.02	0.00	-0.35	0.00	0.00	0.03	-0.07	-0.11	0.03	-0.01	-0.41	0.00	0.00	0.04	-0.10	-0.11	0.04	-0.01	-0.49	0.00	0.00	0.05	-0.12	-0.14	0.06	-0.01	-0.57	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	VALLEJO B 0411	042450411	0.00	0.00	0.01	-0.01	-0.01	0.01	0.00	-0.03	0.00	0.00	0.01	-0.03	-0.01	0.01	0.00	-0.06	0.00	0.00	0.01	-0.04	-0.02	0.02	0.00	-0.09	0.00	0.00	0.02	-0.06	-0.02	0.03	-0.01	-0.10	0.00	0.00	0.02	-0.07	-0.02	0.03	-0.01	-0.11	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	VALLEJO B 0414	042450414	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	-0.07	0.00	0.00	0.01	-0.02	-0.01	0.01	0.00	-0.14	0.00	0.00	0.01	-0.02	-0.01	0.01	0.00	-0.18	0.00	0.00	0.01	-0.03	-0.01	0.02	0.00	-0.21	0.00	0.00	0.02	-0.04	-0.02	0.02	0.00	-0.24	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	VALLEJO B 1102	042451102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.06	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	-0.08	0.00	0.00	0.00	-0.01	-0.01	0.01	0.00	-0.10	0.00	0.00	0.01	-0.01	-0.01	0.01	0.00	-0.12	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	VALLEJO C 0401	042550401	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.01	0.01	0.00	0.00	0.00	0.00	0.01	-0.02	-0.01	0.01	0.00	0.00	0.00	0.01	-0.03	-0.01	0.01	0.00	-0.01	0.00	-0.01	0.00								
Bay Area	North Bay	HIGHWAY 1101	042651101	0.00	0.00	0.01	-0.02	-0.02	0.01	0.00	-0.63	0.00	0.00	0.03	-0.03	-0.03	0.03	-0.01	-0.76	0.00	0.00	0.04	-0.05	-0.05	0.05	-0.01	-0.87	0.00	0.00	0.05	-0.07	-0.05	0.06	-0.01	-1.01	0.00	0.00	0.07	-0.09	-0.07	0.08	-0.02	-1.15	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	HIGHWAY 1104	042651104	0.00	0.00	0.01	-0.01	-0.01	0.01	0.00	-0.47	0.00	0.00	0.02	-0.02	-0.02	0.02	-0.01	-0.57	0.00	0.00	0.03	-0.02	-0.04	0.04	-0.01	-0.66	0.00	0.00	0.04	-0.03	-0.04	0.05	-0.01	-0.77	0.00	0.00	0.07	-0.03	-0.06	0.01	-0.06	-0.57	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	HIGHWAY 1105	042651105	0.00	0.00	0.00	-0.03	-0.02	0.00	0.00	-0.12	0.00	0.00	0.00	-0.05	-0.04	0.01	0.00	-0.14	0.00	0.00	0.01	-0.08	-0.07	0.01	0.00	-0.16	0.00	0.00	0.01	-0.10	-0.07	0.01	0.00	-0.18	0.00	0.00	0.01	-0.13	-0.09	0.02	0.00	-0.21	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	CARQUINEZ 1104	043281104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
Bay Area	North Bay	VALLEJO B 0413	042450413	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	-0.10	0.00	0.00	0.01	-0.01	-0.01	0.00	-0.01	-0.13	0.00	0.00	0.01	-0.01	-0.01	0.00	-0.02	-0.11	0.00	0.00	0.02	-0.01	-0.01	0.00	-0.03	-0.05	0.00	0.00	0.03	-0.01	-0.01	0.00	-0.04	-0.06	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	VALLEJO B 1101	042451101	0.00	0.00	0.01	-0.01	-0.01	0.01	0.00	-0.24	0.00	0.00	0.02	-0.02	-0.03	0.03	-0.01	-0.44	0.00	0.00	0.03	-0.03	-0.04	0.04	-0.01	-0.59	0.00	0.00	0.04	-0.04	-0.04	0.06	-0.01	-0.70	0.00	0.00	0.05	-0.05	-0.05	0.07	-0.01	-0.79	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	CARQUINEZ 1103	043281103	0.00	0.00	0.01	-0.03	-0.02	0.01	0.00	-0.05	0.00	0.00	0.01	-0.07	-0.04	0.02	0.00	-0.06	0.00	0.00	0.02	-0.10	-0.06	0.02	-0.01	-0.07	0.00	0.00	0.02	-0.13	-0.06	0.03	-0.01	-0.08	0.00	0.00	0.03	-0.16	-0.07	0.04	-0.01	-0.09	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	VALLEJO B 0415	042450415	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	-0.05	0.00	0.00	0.01	-0.01	-0.01	0.01	0.00	-0.10	0.00	0.00	0.01	-0.02	-0.02	0.01	0.00	-0.13	0.00	0.00	0.01	-0.02	-0.01	0.02	0.00	-0.16	0.00	0.00	0.02	-0.03	-0.02	0.02	0.00	-0.18	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	NORTH TOWER 1108 (formerly 1101)	042041108	0.00	0.00	-0.15	-0.01	-0.02	0.02	0.00	-0.49	0.00	0.00	-0.14	-0.02	-0.04	0.03	-0.01	-0.59	0.00	0.00	-0.12	-0.04	-0.06	0.05	-0.01	-0.68	0.00	0.00	-0.11	-0.05	-0.06	0.06	-0.01	-0.79	0.00	0.00	-0.09	-0.06	-0.07	0.08	-0.02	-0.90	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	HIGHWAY 1103	042651103	0.00	0.00	0.00	-0.02	-0.01	0.00	0.00	-0.07	0.00	0.00	0.01	-0.04	-0.02	0.01	0.00	-0.09	0.00	0.00	0.01	-0.06	-0.04	0.01	0.00	-0.10	0.00	0.00	0.01	-0.08	-0.04	0.02	0.00	-0.12	0.00	0.00	0.02	-0.10	-0.05	0.02	-0.01	-0.13	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	HIGHWAY 1106	042651106	0.00	0.00	0.01	-0.08	-0.02	0.02	0.00	-0.25	0.00	0.00	0.02	-0.17	-0.05	0.03	-0.01	-0.30	0.00	0.00	0.03	-0.25	-0.08	0.05	-0.01	-0.35	0.00	0.00	0.04	-0.34	-0.08	0.06	-0.01	-0.40	0.00	0.00	0.06	-0.42	-0.10	0.08	-0.02	-0.46	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	PARKWAY 1102	042051102	0.00	0.00	0.01	0.00	-0.02	0.01	0.00	-0.37	0.00	0.00	0.02	0.00	-0.04	0.02	0.00	-0.44	0.00	0.00	0.03	-0.01	-0.06	0.03	-0.01	-0.51	0.00	0.00	0.04	-0.01	-0.06	0.04	-0.01	-0.60	0.00	0.00	0.05	-0.01	-0.07	0.06	-0.01	-0.68	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	HIGHWAY 1102	042651102	0.00	0.00	0.00	-0.03	-0.03	0.00	0.00	-0.03	0.00	0.00	0.01	-0.07	-0.06	0.01	0.00	-0.04	0.00	0.00	0.01	-0.10	-0.10	0.01	0.00	-0.05	0.00	0.00	0.01	-0.14	-0.10	0.02	0.00	-0.06	0.00	0.00	0.02	-0.17	-0.13	0.02	-0.01	-0.06	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	CARQUINEZ 1105	043281105	0.00	0.00	0.01	-0.03	-0.02	0.01	0.00	-0.01	0.00	0.00	0.01	-0.06	-0.04	0.02	0.00	-0.01	0.00	0.00	0.02	-0.09	-0.05	0.02	-0.01	-0.01	0.00	0.00	0.03	-0.13	-0.05	0.03	-0.01	-0.02	0.00	0.00	0.03	-0.16	-0.07	0.04	-0.01	-0.02	0.00	0.00	-0.01	0.00						
Bay Area	North Bay	NORTH TOWER 1103	042041103	0.00	0.00	0.01	-0.01	-0.01	0.01	0.00	-0.17	0.00	0.00	0.02	-0.02	-0.02	0.02	0.00	-0.21	0.00	0.00	0.03	-0.03	0.03	-0.01	-0.24	0.00	0.00	0.03	-0.04	-0.03	0.04	-0.01	-0.28	0.00	0.00	0.04	-0.05	-0.04	0.05	-0.01	-0.32	0.00	0.00	-0.01	0.00							
Bay Area	North Bay	NOVATO 1101	042211101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00																										

Facility Information				2021										2022										2023										2024										2025									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)										
Northern	Humboldt	ARCATA 1122	192021122	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.06	0.00	-0.02	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	-0.02	0.01	-0.06	0.00	0.00	0.00	0.12	0.00	-0.02	0.01	-0.08	0.00	0.00	0.00	0.16	0.00	-0.03	0.01	-0.10	0.00										
Northern	Humboldt	ARCATA 1123	192021123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00											
Northern	Humboldt	BLUE LAKE 1101	192181101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00											
Northern	Humboldt	BLUE LAKE 1102	192181102	0.00	0.00	0.04	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.09	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.14	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.18	0.00	-0.01	0.01	-0.04	0.00	0.00	0.00	0.23	0.00	-0.02	0.01	-0.06	0.00										
Northern	Humboldt	JANES CREEK 1101	192391101	0.00	0.00	0.03	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.03	0.00	0.00	0.00	0.10	0.00	-0.01	0.00	-0.04	0.00	0.00	0.00	0.13	0.00	-0.01	0.01	-0.06	0.00	0.00	0.00	0.16	0.00	-0.02	0.01	-0.07	0.00										
Northern	Humboldt	JANES CREEK 1102	192391102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.02	-0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	-0.02	-0.01	0.01	0.00	0.00										
Northern	Humboldt	JANES CREEK 1103	192391103	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.07	0.00	-0.02	0.01	-0.05	0.00	0.00	0.00	0.11	0.00	-0.03	0.01	-0.07	0.00	0.00	0.00	0.14	0.00	-0.03	0.01	-0.10	0.00	0.00	0.00	0.27	0.00	-0.04	0.01	-0.12	0.00										
Northern	Humboldt	JANES CREEK 1104	192391104	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.01	0.01	0.00	0.00									
Northern	Humboldt	MAPLE CREEK 1101	192101101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02																

Facility Information				2021										2022										2023										2024										2025									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)										
Northern	Sacramento	VACAVILLE 1107	063601107	0.00	0.00	0.01	-0.01	-0.03	0.03	0.00	-0.43	0.00	0.00	0.05	0.00	-0.06	0.01	-0.06	-0.10	0.00	0.00	0.00	0.07	-0.01	-0.09	0.01	-0.09	-0.14	0.00	0.00	0.09	-0.01	-0.09	0.01	-0.12	-0.16	0.00	0.00	0.20	0.00	-0.11	0.02	-0.16	-0.03									
Northern	Sacramento	VACA DIXON 1107	063591107	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04	0.00	0.00	0.00										
Northern	Sacramento	DIXON 1104	062061104	0.00	0.00	0.00	-0.01	-0.02	0.01	0.00	-0.02	0.00	0.00	0.00	0.00	-0.02	-0.04	0.01	0.00	-0.04	0.00	0.00	0.00	0.00	-0.06	0.02	0.00	-0.05	0.00	0.00	0.01	-0.05	-0.06	0.02	0.00	-0.06	0.00	0.00	0.00	0.00	-0.06	0.00	0.00	-0.07									
Northern	Sacramento	VACA DIXON 1109	063591109	0.00	0.00	0.00	-0.01	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	-0.07	0.00	0.00	0.00	0.00	0.00	0.00	-0.04	-0.07	0.01	0.00	0.00	0.00	0.00	0.00	-0.05	-0.09	0.01	0.00	0.00									
Northern	Sacramento	VACA DIXON 1103	063591103	0.00	0.00	0.00	-0.01	-0.02	0.01	0.00	-0.16	0.00	0.00	0.00	0.01	-0.01	-0.05	0.03	0.00	-0.30	0.00	0.00	0.01	-0.02	-0.08	0.04	0.00	-0.40	0.00	0.00	0.04	-0.01	-0.08	0.01	-0.05	-0.06	0.00	0.00	0.05	-0.01	-0.10	0.01	-0.07	-0.06									
Northern	Sacramento	VACAVILLE 1109	063601109	0.00	0.00	0.01	-0.01	-0.02	0.02	0.00	-0.21	0.00	0.00	0.00	0.02	-0.03	-0.05	0.05	-0.01	-0.39	0.00	0.00	0.06	-0.01	-0.08	0.01	-0.07	-0.06	0.00	0.00	0.07	-0.01	-0.09	0.01	-0.10	-0.08	0.00	0.00	0.09	-0.01	-0.11	0.01	-0.13	-0.09									
Northern	Sacramento	VACA DIXON 1105	063591105	0.00	0.00	0.01	-0.01	-0.02	0.03	0.00	-0.43	0.00	0.00	0.05	0.00	-0.04	0.01	-0.06	-0.10	0.00	0.00	0.07	0.00	-0.07	0.01	-0.09	-0.13	0.00	0.00	0.09	0.00	-0.07	0.01	-0.12	-0.15	0.00	0.00	0.11	-0.01	-0.09	0.02	-0.16	-0.17										
Northern	Sacramento	VACAVILLE 1105	063601105	0.00	0.00	0.01	-0.01	-0.03	0.02	0.00	-0.20	0.00	0.00	0.04	0.00	-0.06	0.01	-0.05	-0.05	0.00	0.00	0.06	0.00	-0.09	0.01	-0.07	-0.06	0.00	0.00	0.08	-0.01	-0.09	0.01	-0.10	-0.08	0.00	0.00	0.09	-0.01	-0.12	0.01	-0.13	-0.09										
Northern	Sacramento	DIXON 1102	062061102	0.00	0.00	0.02	-0.02	-0.04	0.05	-0.01	-0.34	0.00	0.00	0.08	-0.01	-0.10	0.01	-0.10	-0.08	0.00	0.00	0.23	0.00	-0.14	0.02	-0.16	-0.02	0.00	0.00	0.58	0.00	-0.12																					

Facility Information				2021										2022										2023										2024										2025									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)										
Central Coast	De Anza	MOUNTAIN VIEW 1107	082031107	0.00	0.00	0.01	-0.01	-0.02	0.00	-0.01	-0.05	0.00	0.00	0.00	0.03	-0.02	-0.03	0.01	-0.03	-0.10	0.00	0.00	-0.56	-0.03	-0.05	0.01	-0.04	-0.13	0.00	0.00	-0.47	-0.04	-0.05	0.01	-0.06	-0.15	0.00	0.00	-0.39	-0.05	-0.07	0.01	-0.07	-0.17									
Central Coast	De Anza	MOUNTAIN VIEW 1108	082031108	0.00	0.00	0.02	-0.01	-0.02	0.00	-0.02	-0.03	0.00	0.00	0.00	0.03	-0.02	-0.04	0.01	-0.03	-0.05	0.00	0.00	0.05	-0.03	-0.06	0.01	-0.05	-0.07	0.00	0.00	0.06	-0.04	-0.06	0.01	-0.07	-0.08	0.00	0.00	0.09	-0.05	-0.07	0.02	-0.09	-0.09									
Central Coast	De Anza	MOUNTAIN VIEW 1109	082031109	0.00	0.00	-1.27	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.00	-1.07	0.00	-0.02	0.00	-0.03	0.00	0.00	0.00	-0.88	0.00	-0.03	0.01	-0.05	0.00	0.00	0.00	-0.76	0.00	-0.03	0.01	-0.07	0.00	0.00	0.00	-0.68	0.00	-0.03	0.01	-0.09	0.00									
Central Coast	De Anza	MOUNTAIN VIEW 1110	082031110	0.00	0.00	0.01	0.00	-0.02	0.00	-0.01	-0.03	0.00	0.00	0.00	0.02	-0.01	-0.03	0.00	-0.02	-0.06	0.00	0.00	0.04	-0.01	-0.05	0.01	-0.03	-0.07	0.00	0.00	0.05	-0.01	-0.05	0.01	-0.05	-0.08	0.00	0.00	0.06	-0.02	-0.06	0.01	-0.06	-0.00									
Central Coast	De Anza	MOUNTAIN VIEW 1111	082031111	0.00	0.00	0.00	0.00	-0.04	0.00	0.00	-0.01	0.00	0.00	0.00	0.01	-0.01	-0.07	0.00	0.00	-0.01	0.00	0.00	0.01	-0.01	-0.11	0.00	0.00	-0.02	0.00	0.00	0.02	-0.01	-0.11	0.00	0.00	-0.02	0.00	0.00	0.02	-0.02	-0.14	0.01	-0.01	-0.02									
Central Coast	De Anza	MOUNTAIN VIEW 1112	082031112	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.03	0.00	0.00	-0.01	0.00	0.00	0.01	-0.01	-0.05	0.01	0.00	-0.02	0.00	0.00	0.01	-0.01	-0.05	0.01	0.00	-0.02	0.00	0.00	0.01	-0.02	-0.06	0.01	0.00	-0.02									
Central Coast	De Anza	MOUNTAIN VIEW 1113	082031113	0.00	0.00	0.01	-0.02	-0.02	0.01	0.00	-0.04	0.00	0.00	0.00	-0.01	-0.05	-0.04	0.02	0.00	-0.08	0.00	0.00	-0.01	-0.07	-0.06	0.03	-0.01	-0.10	0.00	0.00	0.00	-0.10	-0.06	0.04	-0.01	-0.12	0.00	0.00	0.00	-0.12	-0.07	0.05	-0.01	-0.13									
Central Coast	De Anza	MOUNTAIN VIEW 1114	082031114	0.00	0.00	0.00	-0.01	-0.03	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	-0.01	-0.06	0.00	0.00	-0.03	0.00	0.00	0.01	-0.02	-0.09	0.00	0.00	-0.05	0.00	0.00	0.01	-0.02	-0.09	0.00	0.00	-0.05	0.00	0.00	0.01	-0.03	-0.12	0.00	0.00	-0.06									
Central Coast	De Anza	WHISMAN 1101	083631101	0.00	0.00	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
Central Coast	De Anza	WHISMAN 1102	083631102	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.07	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
Central Coast	De Anza	WHISMAN 1103	083631103	0.00	0.00	0.00	0.00	0.01	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	-0.02	0.01	0.00	-0.01	0.00	0.00	0.01	0.00	-0.02	0.01	0.00	-0.01	0.00	0.00	0.01	0.00	-0.02	0.01	0.00	-0.02	0.01	0.00	-0.02	0.00	0.00	0.00	0.01	-0.01	-0.03	0.01	0.00	-0.02					
Central Coast	De Anza	WHISMAN 1104	083631104	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Central Coast	De Anza	WHISMAN 1105	083631105	0.00	0.00	0.00	-0.01	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.04	0.01	0.00	0.00	0.00	0.00	0.01	-0.03	-0.06	0.01	0.00	0.00	0.00	0.00	0.01	-0.04	-0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Central Coast	De Anza	WHISMAN 1106	083631106	0.00	0.00	0.00	-0.02	-0.03	0.00	0.00	-0.02	0.00	0.00	0.00	0.01	-0.04	-0.05	0.00	0.00	-0.04	0.00	0.00	0.01	-0.07	-0.08	0.00	0.00	-0.05	0.00	0.00	0.01	-0.09	-0.08	0.00	0.00	-0.06	0.00	0.00	0.01	-0.11	-0.10	0.01	-0.01	-0.07									
Central Coast	De Anza	WHISMAN 1108	083631108	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.00	0.05	0.00	-0.02	0.00	-0.04	0.00	0.00	0.00	0.08	0.00	-0.04	0.01	-0.06	0.00	0.00	0.00	0.10	0.00	-0.04	0.01	-0.08	0.00	0.00	0.12	0.00	-0.05	0.01	-0.10	0.00										
Central Coast	De Anza	WHISMAN 1109	083631109	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Central Coast	De Anza	WHISMAN 1110	083631110	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	0.01	0.00	-0.01	0.00	0.00	2.80	-0.01	-0.02	0.00	0.00	-0.01	0.00	0.00	0.01	-0.01	-0.02	0.00	0.00	-0.01	0.00	0.00	0.01	-0.02	-0.03	0.01	0.00	-0.02									
Central Coast	De Anza	WHISMAN 1111	083631111	0.00	0.00	0.00	-0.01	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.04	0.01	0.00	0.00	0.00	0.00	0.00	-0.03	-0.06	0.01	0.00	-0.01	0.00	0.00	0.01	-0																					

[illegible]

Facility Information				2021										2022										2023										2024										2025									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)										
Central Coast	Central Coast	CASTROVILLE 2103	182352103	0.00	0.00	0.01	0.00	-0.04	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	-0.07	0.00	-0.02	0.00	0.00	0.00	0.00	0.02	0.00	-0.11	0.00	-0.02	0.00	0.00	0.00	0.03	-0.01	-0.13	0.00	-0.03	0.00	0.00	0.00	0.00	0.04	-0.01	-0.16	0.00	-0.04	0.00								
Central Coast	Central Coast	CASTROVILLE 2104	182352104	0.00	0.00	0.00	-0.03	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.07	-0.08	0.01	0.00	0.00	0.00	0.00	0.00	-0.11	-0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.15	-0.15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.19	-0.19	0.01	0.00	0.00							
Central Coast	Central Coast	DOLAN ROAD 1101	182381101	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	-0.08	-0.01	0.00	-0.02	0.00	0.00	0.00	0.03	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.01	-0.01	-0.03	0.00	-0.03	0.00	0.00	0.00	0.06	0.00	-0.01	0.00	-0.04	0.00							
Central Coast	Central Coast	DOLAN ROAD 1103	182381103	0.00	0.00	0.00	-0.02	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.05	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	-0.07	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	-0.10	-0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.13	-0.04	0.01	0.00	0.00	0.00							
Central Coast	Central Coast	DOLAN ROAD 1104	182381104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	-0.13	-0.04	0.01	0.00	0.00	-0.02							
Central Coast	Central Coast	PRUNEDALE 1107	182961107	0.00	0.00	0.01	0.00	-0.02	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	-0.03	0.00	-0.03	0.00	0.00	0.00	0.00	0.04	0.00	-0.05	0.00	-0.04	0.00	0.00	0.00	0.05	0.00	-0.05	0.01	-0.06	0.00	0.00	0.00	0.06	0.00	-0.06	0.01	-0.07	0.00	0.00								
Central Coast	Central Coast	PRUNEDALE 1110	182961110	0.00	0.00	0.01	0.00	-0.02	0.00	-0.02	0.00	0.00	0.00	0.02	0.00	-0.04	0.00	-0.03	0.00	0.00	0.00	0.00	0.02	0.00	-0.06	0.01	-0.05	0.00	0.00	0.00	0.03	0.00	-0.06	0.01	-0.06	0.00	0.00	0.00	0.04	0.00	-0.08	0.01	-0.08	0.00	0.00								
Central Coast	Central Coast	OILFIELDS 1102	182391102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
Central Coast	Central Coast	OILFIELDS 1103	182391103	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	-0.01																																					

Facility Information				2021										2022										2023										2024										2025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Northern	North Valley	GANSNER 1101	103021101	0.00	0.00	0.00	-0.03	0.00	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	-0.05	-0.01	0.00	0.00	-0.07	0.00	0.00	0.00	0.00	-0.07	-0.01	0.00	0.00	-0.09	0.00	0.00	0.00	-0.09	0.00	0.00	0.00	-0.09	0.00	0.00	0.00	-0.11	-0.02	0.01	0.00	-0.11	0.00	0.00	0.00	-0.02	-0.01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Northern	North Valley	WILLOWS A 1103	102741103	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	-0.04	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	-0.04	0.00	0.00	0.00	-0.02	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Northern	North Valley	JACINTO 1101	102851101	0.00	0.00	0.00	-0.01	-0.02	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	-0.03	0.00	0.00	-0.07	0.00	0.00	0.00	0.00	-0.02	-0.05	0.00	0.00	-0.08	0.00	0.00	0.00	-0.03	-0.05	0.00	0.00	0.00	0.00	-0.03	-0.09	0.00	0.00	0.00	0.00	0.00	0.00	-0.10	0.00	0.00	0.00	-0.02	-0.01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Northern	North Valley	LOGAN CREEK 2101	103142101	0.00	0.00	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.09	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.00	-0.13	0.00	-0.01	-0.01	0.00	0.00	0.00	0.00	-0.14	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Northern	North Valley	LOGAN CREEK 2103	103142103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Facility Information				2021										2022										2023										2024										2025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	Residential (MW)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Central Valley	Kern	COLUMBUS 1109	253951109	0.00	0.00	0.01	-0.01	-0.03	0.00	-0.02	-0.03	0.00	0.00	0.00	0.02	-0.02	-0.06	0.01	-0.05	-0.03	0.00	0.00	0.04	-0.03	-0.09	0.01	-0.07	-0.04	0.00	0.00	0.05	-0.04	-0.10	0.01	-0.10	-0.05	0.00	0.00	0.07	-0.05	-0.13	0.01	-0.12	-0.05	0.00	0.00	0.02	-0.10	-0.10	0.01	-0.04	-0.08																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Central Valley	Kern	COLUMBUS 1110	253951110	0.00	0.00	0.00	-0.02	-0.02	0.00	-0.01	-0.04	0.00	0.00	0.00	0.01	-0.03	-0.05	0.00	-0.02	-0.05	0.00	0.00	0.01	-0.05	-0.07	0.00	-0.02	-0.06	0.00	0.00	0.02	-0.07	-0.08	0.00	-0.03	-0.07	0.00	0.00	0.00	0.02	-0.10	-0.10	0.01	-0.04	-0.08																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Central Valley	Kern	CAL WATER 1102	255451102	0.00	0.00	0.02	0.00	-0.02	0.00	-0.02	0.00	0.00	0.00	0.00	0.04	0.00	-0.04	0.00	-0.04	-0.01	0.00	0.00	0.07	0.00	-0.07	0.01	-0.06	-0.01	0.00	0.00	0.09	-0.01	-0.07	0.01	-0.09	-0.01	0.00	0.00	0.11	-0.01	-0.09	0.01	-0.11	-0.01	0.00	0.00	0.01	-0.01	-0.01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Central Valley	Kern	CAL WATER 1103	255451103	0.00	0.00	0.01	0.00	-0.02	0.00	-0.02	0.00	0.00	0.00	0.00	0.02	-0.01	-0.03	0.00	-0.04	-0.02	0.00	0.00	0.06	0.00	-0.05	0.01	-0.05	-0.01	0.00	0.00	0.08	0.00	-0.05	0.01	-0.07	-0.01	0.00	0.00	0.10	0.00	-0.07	0.01	-0.09	-0.01	0.00	0.00	0.01	-0.01	-0.01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Central Valley	Kern	OLD RIVER 1101	252821101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

[illegible]

Facility Information				2021										2022										2023										2024										2025									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)										
Central Valley	Stockton	STAGG 2105	162422105	0.00	0.00	0.05	-0.05	-0.05	0.00	-0.02	-0.27	0.00	0.00	0.10	-0.11	-0.11	0.01	-0.04	-0.46	0.00	0.00	0.13	-0.16	-0.17	0.01	-0.05	-0.60	0.00	0.00	0.15	-0.23	-0.17	0.02	-0.07	-0.71	0.00	0.00	0.18	-0.29	-0.22	0.02	-0.09	-0.79										
Central Valley	Stockton	MOSHER 2111	163722111	0.00	0.00	0.01	-0.02	-0.04	0.00	-0.02	-0.22	0.00	0.00	0.02	-0.03	-0.08	0.01	-0.05	-0.38	0.00	0.00	0.03	-0.05	-0.13	0.01	-0.08	-0.49	0.00	0.00	0.04	-0.07	-0.14	0.01	-0.10	-0.57	0.00	0.00	0.06	-0.09	-0.17	0.02	-0.13	-0.64										
Central Valley	Stockton	STAGG 2103	162422103	0.00	0.00	0.01	-0.06	-0.04	0.00	0.00	-0.13	0.00	0.00	0.01	-0.13	-0.08	0.01	-0.01	-0.22	0.00	0.00	0.02	-0.20	-0.13	0.01	-0.01	-0.28	0.00	0.00	0.02	-0.28	-0.13	0.01	-0.01	-0.33	0.00	0.00	0.03	-0.28	-0.17	0.01	-0.07	-0.28										
Central Valley	Stockton	EIGHT MILE 2102	163912102	0.00	0.00	0.02	0.00	-0.03	0.00	-0.02	0.00	0.00	0.00	0.04	0.00	-0.05	0.00	-0.04	0.00	0.00	0.00	0.06	0.00	-0.08	0.01	-0.07	0.00	0.00	0.00	0.09	0.00	-0.08	0.01	-0.09	0.00	0.00	0.11	0.00	-0.11	0.01	-0.12	0.00											
Central Valley	Stockton	EIGHT MILE 2103	163912103	0.00	0.00	0.01	0.00	-0.02	0.00	-0.01	-0.15	0.00	0.00	0.01	-0.01	-0.04	0.00	-0.03	-0.26	0.00	0.00	0.04	0.00	-0.05	0.01	-0.05	-0.02	0.00	0.00	0.06	0.00	-0.05	0.01	-0.07	-0.02	0.00	0.00	0.07	0.00	-0.07	0.01	-0.09	-0.02										
Central Valley	Stockton	MOSHER 2104	163722104	0.00	0.00	0.01	-0.01	-0.04	0.00	-0.01	-0.27	0.00	0.00	0.02	-0.03	-0.08	0.01	-0.03	-0.48	0.00	0.00	0.02	-0.04	-0.13	0.01	-0.04	-0.65	0.00	0.00	0.03	-0.06	-0.14	0.01	-0.06	-0.79	0.00	0.00	0.05	-0.05	-0.18	0.01	-0.11	-0.55										
Central Valley	Stockton	STAGG 2108	162422108	0.00	0.00	0.01	0.00	-0.03	0.00	-0.02	-0.20	0.00	0.00	0.02	-0.01	-0.06	0.00	-0.03	-0.34	0.00	0.00	0.02	-0.01	-0.09	0.01	-0.05	-0.45	0.00	0.00	0.03	-0.02	-0.10	0.01	-0.07	-0.53	0.00	0.00	0.04	-0.02	-0.13	0.01	-0.09	-0.61										
Central Valley	Stockton	STAGG 2106	162422106	0.00	0.00	0.01	-0.02	-0.04	0.00	-0.01	-0.32	0.00	0.00	0.01	-0.03	-0.08	0.01	-0.03	-0.55	0.00	0.00	0.03	-0.03	-0.13	0.01	-0.06	-0.44	0.00	0.00	0.04	-0.05	-0.14	0.01	-0.08	-0.52	0.00	0.00	0.04	-0.06	-0.18	0.01	-0.10	-0.60										
Central Valley	Stockton	STAGG 2104	162422104	0.00	0.00	0.05	-0.06	-0.06	0.00	-0.02	-0.32	0.00	0.00	0.09	-0.11	-0.12	0.01	-0.03	-0.54	0.00	0.00	0.12	-0.18	-0.19	0.01	-0.05	-0.70	0.00	0.00	0.15	-0.24	-0.19	0.01	-0.07	-0.83	0.00	0.00	0.17	-0.31	-0.25	0.02	-0.09	-0.94										
Central Valley	Stockton	STAGG 1106	162421106	0.00	0.00	0.00	-0.01	-0.02	0.00	0.00	-0.01	0.00	0.00	0.01	-0.03	-0.04	0.00	0.00	-0.01	0.00	0.00	0.01	-0.05	-0.06	0.00	0.00	-0.01	0.00	0.00	0.01	-0.06	-0.06	0.00	0.00	-0.02	0.00	0.00	0.02	-0.08	-0.07	0.00	0.00	-0.02										
Central Valley	Stockton	STAGG 1101	162421101	0.00	0.00	0.01	-0.01	-0.02	0.00	-0.01	-0.11	0.00	0.00	0.01	-0.02	-0.05	0.00	-0.03	-0.18	0.00	0.00	0.02	-0.03	-0.08	0.01	-0.04	-0.24	0.00	0.00	0.02	-0.05	-0.08	0.01	-0.06	-0.28	0.00	0.00	0.03	-0.06	-0.10	0.01	-0.07	-0.32										
Central Valley	Stockton	CHEROKEE 1101	163651101	0.00	0.00	0.00	-0.07	-0.02	0.00	0.00	-0.13	0.00	0.00	0.01	-0.15	-0.03	0.00	0.00	-0.22	0.00	0.00	0.01	-0.23	-0.05	0.01	-0.01	-0.29	0.00	0.00	0.01	-0.31	-0.05	0.01	-0.01	-0.34	0.00	0.00	0.01	-0.40	-0.07	0.01	-0.01	-0.39										
Central Valley	Stockton	HAMMER 1108	163301108	0.00	0.00	0.00	-0.06	-0.02	0.00	-0.01	-0.04	0.00	0.00	0.00	-0.12	-0.04	0.00	-0.01	-0.07	0.00	0.00	0.00	-0.18	-0.06	0.00	-0.02	-0.10	0.00	0.00	0.01	-0.25	-0.07	0.01	-0.03	-0.11	0.00	0.00	0.01	-0.32	-0.09	0.01	-0.03	-0.12										
Central Valley	Stockton	COUNTRY CLUB 1103	163121103	0.00	0.00	0.00	-0.01	-0.02	0.00	-0.01	-0.01	0.00	0.00	0.01	-0.03	-0.03	0.00	-0.01	-0.02	0.00	0.00	0.01	-0.05	-0.05	0.00	-0.02	-0.02	0.00	0.00	0.01	-0.04	-0.05	0.00	-0.03	-0.02	0.00	0.00	0.02	-0.05	-0.06	0.01	-0.04	-0.02										
Central Valley	Stockton	COUNTRY CLUB 1102	163121102	0.00	0.00	0.00	-0.01	-0.01	0.00	-0.01	0.00	0.00	0.00	0.00	-0.02	-0.02	0.00	-0.01	-0.01	0.00	0.00	0.01	-0.03	-0.03	0.00	-0.02	-0.01	0.00	0.00	0.01	-0.02	-0.03	0.00	-0.03	0.00	0.00	0.00	0.01	-0.02	-0.04	0.00	-0.04	0.00										
Central Valley	Stockton	HAMMER 1109	163301109	0.00	0.00	0.00	0.00	0.01	0.00	-0.01	-0.06	0.00	0.00	0.01	-0.01	-0.03	0.00	-0.01	-0.11	0.00	0.00	0.01	-0.01	-0.04	0.00	-0.02	-0.15	0.00	0.00	0.01	-0.02	-0.05	0.00	-0.03	-0.18	0.00	0.00	0.02	-0.02	-0.06	0.01	-0.04	-0.20										
Central Valley	Stockton	HAMMER 1102	163301102	0.00	0.00	0.01	-0.02	-0.03	0.00	-0.01	-0.05	0.00	0.00	0.01	-0.04	-0.05	0.00	-0.03	-0.09	0.00	0.00	0.02	-0.06	-0.08	0.01	-0.04	-0.12	0.00	0.00	0.02	-0.09	-0.09	0.01	-0.05	-0.15	0.00	0.00	0.03	-0.11	-0.12	0.01	-0.07	-0.17										
Central Valley	Stockton	HAMMER 1106	163301106	0.00	0.00	0.00	-0.01	-0.02	0.00	-0.01	-0.09	0.00	0.00	0.01	-0.02	-0.04	0.00	-0.02	-0.16	0.00	0.00	0.01	-0.03	-0.06	0.00	-0.03	-0.22	0.00	0.00	0.02	-0.04	-0.07	0.01	-0.05	-0.26	0.00	0.00	0.02	-0.05	-0.09	0.01	-0.06	-0.30										
Central Valley	Stockton	WATERLOO 1102	163151102	0.00	0.00	0.00	0.00	-0.01	0.00	-0.01	-0.04	0.00	0.00	0.00	-0.01	-0.01	0.00	-0.01	-0.06	0.00	0.00	0.01	-0																														

Facility Information				2021										2022										2023										2024										2025									
Distribution Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	Residential (MW)	AAPV (MW)									
Northern	Sonoma	FITCH MOUNTAIN 1111	042751111	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	-0.01	-0.01	0.01	0.00	-0.02	0.00	0.00	0.01	-0.02	-0.02	0.01	0.00	-0.02	0.00	0.00	0.01	-0.03	-0.02	0.01	0.00	-0.03	0.00	0.00	0.01	-0.03	-0.03	0.01	0.00	-0.03	0.01	0.00	-0.03						
Northern	Sonoma	WINDSOR 1101	043501101	0.00	0.00	0.01	-0.01	0.00	0.00	-0.01	-0.04	0.00	0.00	0.00	0.02	-0.02	0.00	0.00	-0.02	-0.05	0.00	0.00	0.03	-0.02	0.00	0.01	-0.03	-0.05	0.00	0.00	0.04	-0.03	0.00	0.01	-0.04	-0.06	0.00	0.00	0.05	-0.04	0.00	0.01	-0.05	-0.07									
Northern	Sonoma	WINDSOR 1102	043501102	0.00	0.00	0.01	-0.01	0.00	0.00	-0.01	-0.02	0.00	0.00	0.00	0.02	-0.01	0.00	0.00	-0.02	-0.02	0.00	0.00	0.06	-0.02	0.00	0.01	-0.02	-0.02	0.00	0.00	0.09	-0.03	0.00	0.01	-0.03	-0.06	0.00	0.00	0.11	-0.03	0.00	0.01	-0.04	-0.03									
Northern	Sonoma	FITCH MOUNTAIN 1113	042751113	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	-0.03	0.00	0.00	0.00	0.02	-0.01	-0.03	0.00	-0.02	-0.03	0.00	0.00	0.03	-0.01	-0.04	0.01	-0.03	-0.03	0.00	0.00	0.04	-0.02	-0.04	0.01	-0.04	-0.04	0.00	0.00	0.05	-0.02	-0.06	0.01	-0.04	-0.05									
Northern	Sonoma	FULTON 1101	042561101	0.00	0.00	0.00	-0.01	-0.02	0.00	-0.01	-0.02	0.00	0.00	0.00	0.01	-0.05	-0.04	0.01	0.00	-0.08	0.00	0.00	0.01	-0.08	-0.06	0.02	0.00	-0.09	0.00	0.00	0.02	-0.10	-0.06	0.02	0.00	-0.10	0.00	0.00	0.02	-0.13	-0.07	0.03	-0.01	-0.12									
Northern	Sonoma	FULTON 1105	042561105	0.00	0.00	0.01	-0.01	-0.02	0.00	-0.01	-0.02	0.00	0.00	0.00	0.01	-0.02	-0.05	0.00	-0.02	-0.02	0.00	0.00	0.02	-0.03	-0.07	0.01	-0.02	-0.03	0.00	0.00	0.03	-0.04	-0.07	0.01	-0.03	-0.03	0.00	0.00	0.04	-0.05	-0.09	0.01	-0.04	-0.04									
Northern	Sonoma	FULTON 1107	042561107	0.00	0.00	0.01	-0.04	-0.02	0.01	0.00	-0.11	0.00	0.00	0.00	0.01	-0.08	-0.04	0.02	0.00	-0.14	0.00	0.00	0.03	-0.04	-0.06	0.01	-0.03	-0.05	0.00	0.00	0.04	-0.05	-0.06	0.01	-0.04	-0.06	0.00	0.00	0.05	-0.06	-0.07	0.01	-0.05	-0.10									
Northern	Sonoma	FULTON 1102	042561102	0.00	0.00	-0.09	-0.01	-0.02	0.00	-0.01	-0.05	0.00	0.00	0.00	-0.08	-0.02	-0.03	0.00	-0.02	-0.07	0.00	0.00	-0.07	-0.04	-0.05	0.01	-0.03	-0.07	0.00	0.00	-0.06	-0.05	-0.05	0.01	-0.04	-0.09	0.00	0.00	-0.05	-0.06	-0.07	0.01	-0.05	-0.10									
Northern	Sonoma	MOLINO 1101	042571101	0.00	0.00	0.04	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.00	0.09	0.00	-0.02	0.00	-0.04	0.00	0.00	0.04	0.00	0.14	0.00	-0.03	0.01	-0.06	0.00	0.00	0.19	0.00	-0.03	0.01	-0.09	0.00	0.00	0.24	0.00	-0.04	0.01	-0.11	0.00	-0.11									
Northern	Sonoma	MOLINO 1104	042571104	0.00	0.00	0.01	-0.03	-0.01	0.01	0.00	-0.14	0.00	0.00	0.00	0.01	-0.06	-0.03	0.02	0.00	-0.17	0.00	0.00	0.02	-0.08	-0.04	0.02	-0.01	-0.20	0.00	0.00	0.02	-0.11	-0.04	0.03	-0.01	-0.22	0.00	0.00	0.03	-0.14	-0.06	0.04	-0.01	-0.25									
Northern	Sonoma	MOLINO 1102	042571102	0.00	0.00	0.04	0.00	-0.02	0.00	-0.03	0.00	0.00	0.00	0.00	0.09	0.00	-0.04	0.01	-0.06	0.00	0.00	0.04	0.00	0.14	0.00	-0.05	0.01	-0.09	0.00	0.00	0.18	0.00	-0.06	0.01	-0.13	0.00	0.00	0.23	0.00	-0.07	0.02	-0.16	0.00	-0.16									
Northern	Sonoma	MOLINO 1103	042571103	0.00	0.00	0.06	0.00	-0.02	0.00	-0.03	0.00	0.00	0.00	0.00	0.12	0.00	-0.03	0.01	-0.05	0.00	0.00	0.19	0.00	-0.05	0.01	-0.08	0.00	0.00	0.00	0.26	0.00	-0.06	0.01	-0.11	0.00	0.00	0.32	0.00	-0.07	0.01	-0.14	0.00	0.00										
Northern	Sonoma	MIRABEL 1101	042091101	0.00	0.00	0.01	-0.01	-0.01	0.00	0.00	-0.03	0.00	0.00	0.00	0.01	-0.03	-0.02	0.00	0.00	-0.04	0.00	0.00	0.02	-0.04	-0.03	0.00	0.00	-0.05	0.00	0.00	0.02	-0.05	-0.03	0.01	-0.01	-0.05	0.00	0.00	0.03	-0.07	-0.04	0.01	-0.01	-0.08									
Northern	Sonoma	MIRABEL 1102	042091102	0.00	0.00	0.03	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.07	0.00	-0.01	0.00	-0.03	0.00	0.00	0.11	0.00	-0.02	0.00	-0.05	0.00	0.00	0.00	0.14	0.00	-0.02	0.01	-0.06	0.00	0.00	0.18	0.00	-0.03	0.01	-0.08	0.00	0.00											
Northern	Sonoma	SONOMA 1102	042721102	0.00	0.00	0.01	-0.03	-0.02	0.01	0.00	-0.09	0.00	0.00	0.00	0.02	-0.05	-0.04	0.02	-0.01	-0.11	0.00	0.00	0.03	-0.08	-0.07	0.03	-0.01	-0.13	0.00	0.00	0.04	-0.11	-0.07	0.05	-0.01	-0.14	0.00	0.00	0.05	-0.14	-0.09	0.06	-0.01	-0.14									
Northern	Sonoma	DUNBAR 1103	043071103	0.00	0.00	0.01	-0.02	-0.02	0.01	0.00	-0.08	0.00	0.00	0.00	0.01	-0.04	-0.05	0.02	0.00	-0.10	0.00	0.00	0.02	-0.06	-0.07	0.03	-0.01	-0.11	0.00	0.00	0.03	-0.08	-0.08	0.04	-0.01	-0.13	0.00	0.00	0.04	-0.10	-0.09	0.05	-0.01	-0.14									
Northern	Sonoma	DUNBAR 1102	043071102	0.00	0.00	0.01	-0.01	-0.02	0.01	0.00	-0.10	0.00	0.00	0.00	0.01	-0.03	-0.04	0.02	0.00	-0.12	0.00	0.00	0.02	-0.04	-0.06	0.02	-0.01	-0.14	0.00	0.00	0.03	-0.06	-0.06	0.03	-0.01	-0.16	0.00	0.00	0.03	-0.07	-0.08	0.04	-0.01	-0.18									
Northern	Sonoma	SONOMA 1104	042721104	0.00	0.00	0.01	-0.08	-0.03	0.02	0.00	-0.14	0.00	0.00	0.00	0.00	-0.15	-0.06	0.03	-0.01	-0.17	0.00	0.00	0.02	-0.23	-0.09	0.05	-0.01	-0.19	0.00	0.00	0.03	-0.31	-0.09	0.07	-0.01	-0.22	0.00	0.00	0.04	-0.38	-0.12	0.09	-0.02	-0.25									
Northern	Sonoma	DUNBAR 1101	043071101	0.00	0.00	0.01	-0.02	-0.03	0.01	0.00	-0.17	0.00	0.00	0.00	0.02	-0.04	-0.07	0.02	-0.01	-0.20	0.00	0.00	0.03	-0.07	-0.10	0.04	-0.01	-0.23	0.00	0.00	0.04	-0.09	-0.10	0.05	-0.01	-0.26	0.00	0.00	0.05	-0.11	-0.13	0.06	-0.01	-0.29									
Northern	Sonoma	SONOMA 1107	042721107	0.00	0.00	0.00	-0.03	-0.01	0.01	0.00	-0.05	0.00	0.00	0.00	0.01	-0.05	-0.03	0.01	0.00	-0.06	0.00	0.00	0.01	-0.07	-0.05	0.02	0.00	-0.07	0.00	0.00	0.02	-0.10	-0.05	0.02	-0.01	-0.08	0.00	0.00	0.02	-0.12	-0.06	0.03	-0.01	-0.09									
Northern	Sonoma	SONOMA 1103	042721103	0.00	0.00	0.01	-0.03	-0.02	0.01	0.00	-0.09	0.00	0.00	0.00	0.01																																						

Facility Information						2021								2022								2023								2024								2025													
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)
Central Valley	Yosemite	WILSON 1103	254301103	0.00	0.00	0.01	0.00	-0.02	0.00	-0.01	0.00	0.00	0.00	0.01	-0.01	-0.05	0.00	-0.02	-0.01	0.00	0.00	0.00	0.02	-0.01	-0.08	0.00	-0.03	-0.01	0.00	0.00	0.03	-0.01	-0.08	0.01	-0.05	-0.01	0.00	0.00	0.00	0.03	-0.01	0.00	0.00	0.00	0.03	0.00	-0.16	0.00	-0.03	0.00	
Central Valley	Yosemite	EL CAPITAN 1103	253881103	0.00	0.00	0.00	0.00	-0.03	0.00	-0.01	0.00	0.00	0.00	0.00	0.01	0.00	-0.07	0.00	-0.01	0.00	0.00	0.00	0.02	0.00	-0.10	0.00	-0.02	0.00	0.00	0.00	0.00	0.02	0.00	-0.13	0.00	-0.03	0.00	0.00	0.00	0.00	0.03	0.00	-0.16	0.00	-0.03	0.00					
Central Valley	Yosemite	MERCED 1116	252801116	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.02	-0.01	-0.06	0.00	-0.03	0.00	0.00	0.00	0.03	-0.01	-0.10	0.00	-0.04	-0.01	0.00	0.00	0.00	0.03	-0.01	-0.12	0.01	-0.05	-0.01	0.00	0.00	0.04	-0.02	-0.15	0.01	-0.07	-0.01						
Central Valley	Yosemite	EL CAPITAN 1104	253881104	0.00	0.00	0.01	0.00	-0.02	0.00	-0.01	-0.01	0.00	0.00	0.00	0.02	-0.01	-0.04	0.00	-0.03	-0.01	0.00	0.00	0.00	0.03	-0.01	-0.06	0.00	-0.04	-0.01	0.00	0.00	0.04	-0.01	-0.08	0.01	-0.06	-0.01	0.00	0.00	0.05	-0.01	-0.10	0.01	-0.07	-0.01						
Central Valley	Yosemite	WILSON 1102	254301102	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.02	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.02	0.00	-0.01	0.00	0.00	0.01	-0.01	-0.02	0.00	-0.02	0.00							
Central Valley	Yosemite	EL CAPITAN 1102	253881102	0.00	0.00	0.01	0.00	-0.03	0.00	-0.01	0.00	0.00	0.00	0.00	0.01	0.00	-0.05	0.00	-0.02	0.00	0.00	0.00	0.02	0.00	-0.08	0.00	-0.04	0.00	0.00	0.00	0.00	0.03	0.00	-0.10	0.01	-0.05	0.00	0.00	0.00	0.04	0.00	-0.13	0.01	-0.06	0.00						
Central Valley	Yosemite	WILSON 1101	254301101	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.00	0.01	0.00	-0.02	0.00	-0.02	0.00	0.00	0.00	0.02	-0.01	-0.03	0.00	-0.03	-0.01	0.00	0.00	0.00</																				

Facility Information				2021										2022										2023										2024										2025									
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)										
Central Valley	Yosemite	COTTLE 1702	163711702	0.00	0.00	0.02	-0.01	-0.04	0.00	-0.02	-0.28	0.00	0.00	0.04	-0.02	-0.08	0.01	-0.04	-0.53	0.00	0.00	0.07	-0.02	-0.13	0.01	-0.09	-0.42	0.00	0.00	0.10	-0.02	-0.13	0.02	-0.12	-0.49	0.00	0.00	0.11	-0.03	-0.17	0.02	-0.16	-0.56	0.00									
Central Valley	Yosemite	COTTLE 1708	163711708	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.01	-0.01	0.00	0.00	0.00	0.14	0.00	0.00	0.01	-0.01	0.00	0.00											
Central Valley	Yosemite	RIVERBANK 1712	163191712	0.00	0.00	0.01	0.00	-0.02	0.00	-0.02	-0.02	0.00	0.00	0.03	0.00	-0.03	0.00	-0.03	-0.04	0.00	0.00	0.04	0.00	-0.05	0.01	-0.05	-0.06	0.00	0.00	0.10	0.00	-0.06	0.01	-0.07	-0.01	0.00	0.00	0.12	0.00	-0.07	0.01	-0.09	-0.01	0.00									
Central Valley	Yosemite	RIVERBANK 1714	163191714	0.00	0.00	0.05	0.00	-0.02	0.00	-0.03	-0.01	0.00	0.00	0.09	0.00	-0.05	0.01	-0.06	-0.01	0.00	0.00	0.13	0.00	-0.07	0.01	-0.10	-0.01	0.00	0.00	0.16	0.00	-0.08	0.01	-0.13	-0.02	0.00	0.00	0.20	-0.01	-0.11	0.02	-0.17	-0.02	0.00									
Central Valley	Yosemite	COTTLE 1703	163711703	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	-0.01	0.00	0.00	0.01	0.00	-0.03	0.00	-0.01	-0.02	0.00	0.00	0.02	0.00	-0.04	0.00	-0.02	-0.03	0.00	0.00	0.02	0.00	-0.04	0.00	0.00	0.03	0.00	0.00	-0.05	0.00	-0.04	-0.04	-0.04	0.00	0.00									
Central Valley	Yosemite	RIVERBANK 1715	163191715	0.00	0.00	0.04	0.00	-0.03	0.00	-0.03	-0.01	0.00	0.00	0.08	0.00	-0.06	0.01	-0.05	-0.01	0.00	0.00	0.13	0.00	-0.09	0.01	-0.09	-0.02	0.00	0.00	0.16	0.00	-0.11	0.01	-0.12	-0.02	0.00	0.00	0.19	0.00	-0.14	0.02	-0.15	-0.02	0.00									
Central Valley	Yosemite	COTTLE 1704	163711704	0.00	0.00	0.02	-0.03	-0.04	0.00	0.00	-0.27	0.00	0.00	0.04	-0.04	-0.09	0.01	-0.04	-0.38	0.00	0.00	0.06	-0.06	-0.13	0.01	-0.06	-0.51	0.00	0.00	0.08	-0.08	-0.13	0.02	-0.08	-0.61	0.00	0.00	0.09	-0.11	-0.16	0.02	-0.11	-0.70	0.00									
Central Valley	Yosemite	RIVERBANK 1716	163191716	0.00	0.00	0.02	-0.01	-0.04	0.00	0.00	-0.37	0.00	0.00	0.06	-0.02	-0.07	0.01	-0.07	-0.42	0.00	0.00	0.09	-0.02	-0.11	0.01	-0.10	-0.56	0.00	0.00	0.11	-0.03	-0.12	0.02	-0.14	-0.67	0.00	0.00	0.13	-0.04	-0.16	0.02	-0.18	-0.77	0.00									
Central Valley	Yosemite	VALLEY HOME 1702	162981702	0.00	0.00	0.02	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.04	0.00	-0.02	0.00	-0.02	0.00	0.00	0.00	0.05	0.00	-0.03	0.00	-0.04	-0.01	0.00	0.00	0.07	0.00	-0.04	0.01	-0.05	-0.01	0.00	0.00	0.08	0.00	-0.05	0.01	-0.07	-0.01	0.00									
Central Valley	Yosemite	VALLEY HOME 1704	162981704	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	-0.03	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	-0.04	0.00	-0.01	-0.01	0.00	0.00	0.01	0.00	-0.05	0.00	-0.02	-0.01	0.00	0.00	0.02	0.00	-0.07	0.00	-0.02	-0.01	0.00									
Central Valley	Yosemite	COTTLE 1707	163711707	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.01	-0.01	0.00	0.00	0.00	0.14	0.00	0.00	0.01	-0.01	0.00	0.00	0.00	0.17	0.00	0.00	0.01	-0.01	0.00	0.00									
Central Valley	Yosemite	ORO LOMA 1117	255371117	0.00	0.00	0.00	-0.03	-0.02	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	-0.06	-0.03	0.00	0.00	-0.01	0.00	0.00	0.00	-0.08	-0.05	0.00	0.00	-0.01	0.00	0.00	0.00	-0.11	-0.05	0.00	0.00	0.00	-0.14	-0.06	0.00	0.00	-0.05	0.00	0.00	0.00	0.00								
Central Valley	Yosemite	ORO LOMA 1118	255371118	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.03	0.00	0.00	-0.01	0.00	0.00	0.00	-0.03	-0.04	0.00	0.00	-0.01	0.00	0.00	-0.04	-0.04	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	-0.05	-0.05	0.00	0.00	-0.01	0.00								
Central Valley	Yosemite	ORO LOMA 1106	255371106	0.00	0.00	0.00	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.07	0.00	0.00	0.00	0.00	0.00	0.00	-0.11	0.00	0.00	0.00	0.00	0.00	0.00	-0.15	0.00	0.01	0.00	0.00	0.00	0.00	0.00	-0.19	0.00	0.01	0.00	0.00	0.00	0.00									
Central Valley	Yosemite	SANTA RITA 1105	253541105	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	-0.02	-0.02	0.00	0.00	-0.01	0.00	0.00	0.00	-0.03	-0.04	0.00	0.00	-0.01	0.00	0.00	-0.04	-0.04	0.00	0.00	-0.02	0.00	0.00	0.00	-0.05	-0.05	0.00	0.00	-0.01	0.00	0.00								
Central Valley	Yosemite	SANTA RITA 1102	253541102	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.05	0.00	-0.01	0.00	0.00	0.00	0.00	-0.05	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	-0.07	0.00	-0.01	0.00	0.00	0.00									
Central Valley	Yosemite	ORO LOMA 1115	255371115	0.00	0.00	0.00	-0.09	-0.02	0.00	-0.01	-0.08	0.00	0.00	0.00	0.00	-0.17	-0.04	0.00	-0.01	-0.13	0.00	0.00	0.01	-0.26	-0.06	0.00	-0.02	-0.17	0.00	0.00	0.02	-0.02	-0.05	0.00	-0.04	-0.01	0.00	0.00	0.03	-0.02	-0.07	0.01	-0.05	-0.01	0.00								
Central Valley	Yosemite	DOS PALOS 1101	254041101	0.00	0.00	0.00	-0.05	-0.02	0.00	-0.01	-0.13	0.00	0.00	0.01	-0.10	-0.04	0.00	-0.02	-0.21	0.00	0.00	0.01	-0.15	-0.06	0.00	-0.03	-0.28	0.00	0.00	0.02	-0.09	-0.06	0.01	-0.06	-0.11	0.00	0.03	-0.11	-0.08	0.0													

Facility Information			2021										2022										2023										2024										2025									
			Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)						
Northern	Sierra	HALSEY 1102	152241102	0.00	0.00	0.01	-0.01	-0.03	0.00	-0.02	-0.07	0.00	0.00	0.00	0.03	-0.03	-0.05	0.00	-0.03	-0.09	0.00	0.00	0.04	-0.04	-0.08	0.01	-0.05	-0.10	0.00	0.00	0.05	-0.06	-0.08	0.01	-0.07	-0.12	0.00	0.00	0.07	-0.07	-0.11	0.01	-0.08	-0.13								
Northern	Sierra	BELL 1108	152701108	0.00	0.00	0.03	-0.02	-0.04	0.00	-0.03	-0.16	0.00	0.00	0.00	0.05	-0.03	-0.08	0.01	-0.06	-0.19	0.00	0.00	0.08	-0.05	-0.12	0.01	-0.09	-0.22	0.00	0.00	0.11	-0.06	-0.12	0.02	-0.13	-0.25	0.00	0.00	0.14	-0.08	-0.16	0.02	-0.16	-0.28								
Northern	Sierra	AUBURN 1101	152161101	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	-0.02	0.00	0.00	0.00	0.01	-0.02	-0.01	0.00	-0.01	-0.02	0.00	0.00	0.01	-0.03	-0.02	0.00	-0.01	-0.02	0.00	0.00	0.01	-0.03	-0.02	0.00	-0.01	-0.03	0.00	0.00	0.01	-0.04	-0.03	0.00	-0.01	-0.03								
Northern	Sierra	AUBURN 1102	152161102	0.00	0.00	0.01	-0.01	-0.02	0.00	-0.01	-0.03	0.00	0.00	0.00	0.01	-0.01	-0.03	0.00	-0.02	-0.04	0.00	0.00	0.02	-0.02	-0.05	0.00	-0.03	-0.05	0.00	0.00	0.03	-0.02	-0.05	0.00	-0.03	-0.05	0.00	0.00	0.04	-0.03	-0.06	0.01	-0.04	-0.06								
Northern	Sierra	HALSEY 1101	152241101	0.00	0.00	0.02	0.00	-0.02	0.00	-0.02	-0.10	0.00	0.00	0.00	0.04	-0.01	-0.04	0.01	-0.04	-0.11	0.00	0.00	0.06	-0.01	-0.07	0.01	-0.06	-0.13	0.00	0.00	0.08	-0.01	-0.07	0.01	-0.08	-0.15	0.00	0.00	0.10	-0.02	-0.09	0.01	-0.10	-0.17								
Northern	Sierra	WISE 1103	152271103	0.00	0.00	0.05	0.00	-0.03	0.00	-0.03	-0.01	0.00	0.00	0.11	0.00	-0.05	0.01	-0.07	-0.01	0.00	0.00	0.17	0.00	-0.08	0.01	-0.10	-0.01	0.00	0.00	0.22	0.00	-0.08	0.01	-0.14	-0.01	0.00	0.00	0.28	0.00	-0.11	0.02	-0.18	-0.02									
Northern	Sierra	BELL 1109	152701109	0.00	0.00	0.00	-0.03	-0.02	0.00	0.00	-0.11	0.00	0.00	0.01	-0.06	-0.04	0.00	0.00	-0.13	0.00	0.00	0.01	-0.09	-0.06	0.00	0.00	-0.15	0.00	0.00	0.02	-0.09	-0.06	0.00	-0.02	-0.13	0.00	0.00	0.02	-0.11	-0.08	0.01	-0.03	-0.15									
Northern	Sierra	PLACER 1104	152461104	0.00	0.00	-0.12	-0.03	-0.03	0.00	-0.01	-0.14	0.00	0.00	-0.12	-0.06	-0.07	0.00	-0.02	-0.17	0.00	0.00	-0.13	-0.06	-0.11	0.01	-0.04	-0.12	0.00	0.00	-0.12	-0.07	-0.11	0.01	-0.05	-0.14	0.00	0.00	-0.11	-0.09	-0.14	0.01	-0.07	-0.17									
Northern	Sierra	WISE 1102	152271102	0.00	0.00	0.03	0.00	-0.02	0.00	-0.02	-0.01	0.00	0.00	0.07	0.00	-0.03	0.00	-0.05	-0.01	0.00	0.00	0.11	0.00	-0.05	0.01	-0.07	-0.01	0.00	0.00	0.15	0.00	-0.05	0.01																			

Facility Information				2021								2022								2023								2024								2025											
Distribution Planning Region	Division	Facility Name	Facility ID	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)	AAPV (MW)	Demand Response (MW)	Electric Vehicles (MW)	PV Non-Residential (MW)	Energy Efficiency (MW)	Energy Storage Charge (MW)	Energy Storage Discharge (MW)	PV Residential (MW)				
Northern	Sierra	NARROWS 2101	153132101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	-0.02	0.00	-0.02	0.00	-0.02	0.00
Northern	Sierra	NARROWS 2102	153132102	0.00	0.00	0.01	-0.01	-0.03	0.00	-0.02	-0.12	0.00	0.00	0.02	-0.03	-0.06	0.01	-0.04	-0.20	0.00	0.00	0.00	0.03	-0.04	-0.10	0.01	-0.07	-0.26	0.00	0.00	0.04	-0.06	-0.11	0.01	-0.09	-0.31	0.00	0.00	0.05	-0.07	-0.14	0.02	-0.11	-0.34			
Northern	Sierra	NARROWS 2105	153132105	0.00	0.00	0.01	-0.03	-0.03	0.00	-0.03	-0.11	0.00	0.00	0.02	-0.07	-0.06	0.01	-0.05	-0.18	0.00	0.00	0.00	0.03	-0.10	-0.10	0.01	-0.08	-0.23	0.00	0.00	0.04	-0.14	-0.10	0.01	-0.11	-0.27	0.00	0.00	0.05	-0.18	-0.14	0.02	-0.13	-0.30			
Northern	Sierra	DOBBSINS 1101	153741101	0.00	0.00	0.00	-0.01	-0.01	0.00	-0.01	-0.02	0.00	0.00	0.00	-0.02	-0.01	0.00	-0.01	-0.03	0.00	0.00	0.00	0.01	-0.03	-0.02	0.00	-0.02	-0.04	0.00	0.00	0.01	-0.04	-0.02	0.00	-0.02	-0.05	0.00	0.00	0.01	-0.05	-0.03	0.00	-0.03	-0.05			
Northern	Sierra	SMARTVILLE 1101	153791101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	0.00				
Northern	Sierra	BROWNS VALLEY 1101	152921101	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.00	0.01	0.00	-0.01	0.00	-0.02	0.00	0.00	0.02	0.00	-0.01	0.00	-0.02	0.00	0.00	0.00	0.02	0.00	-0.02	0.00	-0.03	0.00				
Northern	Sierra	FORESTHILL 1101	152181101	0.00	0.00	0.01	-0.02	-0.02	0.00	0.00	-0.01	-0.04	0.00	0.00	0.01	-0.03	-0.03	0.00	-0.03	-0.07	0.00	0.00	0.02	-0.05	-0.06	0.01	-0.04	-0.09	0.00	0.00	0.02	-0.06	-0.06	0.01	-0.06	-0.10	0.00	0.00	0.03	-0.08	-0.07	0.01	-0.08	-0.12			
Northern	Sierra	FORESTHILL 1102	152181102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	-0.01	0.00	-0.01	-0.03	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	-0.01	-0.04	0.00	0.00	0.01	0.00	-0.01	0.00	-0.01	-0.05	0.00	0.00	0.01	0.00	-0.01	0.00	-0.02	0.00			
Northern	Sierra	ALLEGHANY 1101	152101101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	-0.01	0.00			
Northern	Sierra	ALLEGHANY 1102	152101102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Northern	Sierra	MOUNTAIN QUARRIES 2101	152282101	0.00	0.00	0.01	-0.02	-0.03	0.00	-0.02	-0.18	0.00	0.00	0.02	-0.05	-0.07	0.01	-0.05	-0.30	0.00	0.00	0.00	0.03	-0.08	-0.11	0.01	-0.07	-0.40	0.00	0.00	0.04	-0.10	-0.11	0.01	-0.10	-0.46	0.00	0.00	0.05	-0.13	-0.14	0.02	-0.12	-0.52			

GNA Need ID	Facility Information			Distribution Service					Peak Deficiency and Loading					2021					2022					2023					2024					2025				
	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)		
GNA_1822901_Capacity	Central Coast	Central Coast	HATTON BANK 1	1822901	Bank	None	None	None	80%	0.00	0%	15.05	11.64	77%	0	0%	15.05	11.72	78%	0	0%	15.05	11.81	78%	0	0%	15.05	11.9	79%	0	0%	15.05	12	80%	0	0%		
GNA_182291101_Capacity	Central Coast	Central Coast	HATTON 1101	182291101	Feeder	None	None	None	76%	0.00	0%	8.40	6.17	73%	0	0%	8.40	6.22	74%	0	0%	8.40	6.27	75%	0	0%	8.40	6.33	75%	0	0%	8.40	6.38	76%	0	0%		
GNA_182291102_Capacity	Central Coast	Central Coast	HATTON 1102	182291102	Feeder	None	None	None	66%	0.00	0%	11.82	7.75	66%	0	0%	11.82	7.75	66%	0	0%	11.82	7.74	65%	0	0%	11.82	7.72	65%	0	0%	11.82	7.7	65%	0	0%		
GNA_1823701_Capacity	Central Coast	Central Coast	LAURELES BANK 1	1823701	Bank	None	None	None	91%	0.00	0%	6.49	5.71	88%	0	0%	6.49	5.76	89%	0	0%	6.49	5.82	90%	0	0%	6.49	5.88	91%	0	0%	6.49	5.93	91%	0	0%		
GNA_182371111_Capacity	Central Coast	Central Coast	LAURELES 1111	182371111	Feeder	None	None	None	31%	0.00	0%	10.16	2.93	29%	0	0%	10.16	2.98	29%	0	0%	10.16	3.03	30%	0	0%	10.16	3.09	30%	0	0%	10.16	3.14	31%	0	0%		
GNA_182371112_Capacity	Central Coast	Central Coast	LAURELES 1112	182371112	Feeder	None	None	None	31%	0.00	0%	10.16	3.14	31%	0	0%	10.16	3.14	31%	0	0%	10.16	3.14	31%	0	0%	10.16	3.14	31%	0	0%	10.16	3.14	31%	0	0%		
GNA_1829401_Capacity	Central Coast	Central Coast	OTTER BANK 1	1829401	Bank	None	None	None	36%	0.00	0%	9.28	3.11	34%	0	0%	9.28	3.16	34%	0	0%	9.28	3.21	35%	0	0%	9.28	3.26	35%	0	0%	9.28	3.31	36%	0	0%		
GNA_182941101_Capacity	Central Coast	Central Coast	OTTER 1101	182941101	Feeder	None	None	None	20%	0.00	0%	6.50	1.04	16%	0	0%	6.50	1.1	17%	0	0%	6.50	1.16	18%	0	0%	6.50	1.22	19%	0	0%	6.50	1.28	20%	0	0%		
GNA_182941102_Capacity	Central Coast	Central Coast	OTTER 1102	182941102	Feeder	None	None	None	84%	0.00	0%	3.04	2.55	84%	0	0%	3.04	2.53	83%	0	0%	3.04	2.52	83%	0	0%	3.04	2.51	83%	0	0%	3.04	2.49	82%	0	0%		
GNA_1820702_Capacity	Central Coast	Central Coast	CAMPORA BANK 2	1820702	Bank	None	None	None	CC	CC	CC	10.39	CC	CC	CC	CC	10.39	CC	CC	CC	CC	10.39	CC	CC	CC	CC	10.39	CC	CC	CC	CC	10.39	CC	CC	CC	CC		
GNA_182071101_Capacity	Central Coast	Central Coast	CAMPORA 1101	182071101	Feeder	None	None	None	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC		
GNA_1821303_Capacity	Central Coast	Central Coast	GONZALES BANK 3	1821303	Bank	None	None	None	88%	0.00	0%	6.60	5.35	81%	0	0%	6.60	5.4	82%	0	0%	6.60	5.52	84%	0	0%	6.60	5.67	86%	0	0%	6.60	5.81	88%	0	0%		
GNA_182131101_Capacity	Central Coast	Central Coast	GONZALES 1101	182131101	Feeder	None	None	None	61%	0.00	0%	8.55	4.74	55%	0	0%	8.55	4.8	56%	0	0%	8.55	4.92	58%	0	0%	8.55	5.08	59%	0	0%	8.55	5.21	61%	0	0%		
GNA_182131102_Capacity	Central Coast	Central Coast	GONZALES 1102	182131102	Feeder	None	None	None	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC		
GNA_1821304_Capacity	Central Coast	Central Coast	GONZALES BANK 4	1821304	Bank	None	None	None	CC	CC	CC	15.84	CC	CC	CC	CC	15.84	CC	CC	CC	CC	15.84	CC	CC	CC	CC	15.84	CC	CC	CC	CC	15.84	CC	CC	CC	CC		
GNA_182131103_Capacity	Central Coast	Central Coast	GONZALES 1103	182131103	Feeder	None	None	None	CC	CC	CC	11.82	CC	CC	CC	CC	11.82	CC	CC	CC	CC	11.82	CC	CC	CC	CC	11.82	CC	CC	CC	CC	11.82	CC	CC	CC	CC		
GNA_182131104_Capacity	Central Coast	Central Coast	GONZALES 1104	182131104	Feeder	None	None	None	86%	0.00	0%	12.19	10.46	86%	0	0%	12.19	10.47	86%	0	0%	12.19	10.49	86%	0	0%	12.19	10.51	86%	0	0%	12.19	10.52	86%	0	0%		
GNA_1824901_Capacity	Central Coast	Central Coast	HOLLISTER BANK 1	1824901	Bank	None	None	None	71%	0.00	0%	24.80	16.6	67%	0	0%	24.80	17.35	70%	0	0%	24.80	17.42	70%	0	0%	24.80	17.57	71%	0	0%	24.80	17.72	71%	0	0%		
GNA_182492101_Capacity	Central Coast	Central Coast	HOLLISTER 2101	182492101	Feeder	None	None	None	63%	0.00	0%	18.11	10.88	60%	0	0%	18.11	10.95	60%	0	0%	18.11	11.02	61%	0	0%	18.11	11.18	62%	0	0%	18.11	11.34	63%	0	0%		
GNA_182492102_Capacity	Central Coast	Central Coast	HOLLISTER 2102	182492102	Feeder	None	None	None	79%	0.00	0%	12.15	8.97	74%	0	0%	12.15	9.55	79%	0	0%	12.15	9.51	78%	0	0%	12.15	9.49	78%	0	0%	12.15	9.46	78%	0	0%		
GNA_1824902_Capacity	Central Coast	Central Coast	HOLLISTER BANK 2	1824902	Bank	None	None	None	77%	0.00	0%	24.73	18.43	75%	0	0%	24.73	18.68	76%	0	0%	24.73	18.82	76%	0	0%	24.73	18.96	77%	0	0%	24.73	19.11	77%	0	0%		
GNA_182492103_Capacity	Central Coast	Central Coast	HOLLISTER 2103	182492103	Feeder	None	None	None	97%	0.00	0%	19.63	18.46	94%	0	0%	19.63	18.71	95%	0	0%	19.63	18.85	96%	0	0%	19.63	18.99	97%	0	0%	19.63	19.13	97%	0	0%		
GNA_1824903_Capacity	Central Coast	Central Coast	HOLLISTER BANK 3	1824903	Bank	Demand Growth	Capacity	2021	146%	3.38	8%	44.55	47.93	108%	3.38	8%	44.55	50.27	113%	5.72	13%	44.55	63.24	142%	18.69	42%	44.55	64.44	145%	19.89	45%	44.55	65.1	146%	20.55	46%		
GNA_182492104_Capacity	Central Coast	Central Coast	HOLLISTER 2104	182492104	Feeder	Demand Growth	Capacity	2023	CC	CC	CC	21.11	CC	CC	CC	CC	21.11	CC	CC	CC	CC	21.11	CC	CC	CC	CC	21.11	CC	CC	CC	CC	21.11	CC	CC	CC	CC		
GNA_182492105_Capacity	Central Coast	Central Coast	HOLLISTER 2105	182492105	Feeder	None	None	None	93%	0.00	0%	21.11	16.32	77%	0	0%	21.11	18.56	88%	0	0%	21.11	18.8	89%	0	0%	21.11	19.28	91%	0	0%	21.11	19.73	93%	0	0%		
GNA_182493106_Capacity	Central Coast	Central Coast	HOLLISTER 2106																																			

Facility Information										Distribution Service		Peak Deficiency and Loading				2021				2022				2023				2024				2025				
GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)
GNA_182300413_Capacity	Central Coast	Central Coast	INDUSTRIAL ACRES 0413	182300413	Feeder	None	None	None	29%	0.00	0%	2.46	0.72	29%	0	0%	2.46	0.72	29%	0	0%	2.46	0.72	29%	0	0%	2.46	0.72	29%	0	0%	2.46	0.72	29%	0	0%
GNA_182300415_Capacity	Central Coast	Central Coast	INDUSTRIAL ACRES 0415	182300415	Feeder	None	None	None	CC	CC	CC	2.14	CC	CC	CC	CC	2.14	CC	CC	CC	CC	2.14	CC	CC	CC	CC	2.14	CC	CC	CC	CC	2.14	CC	CC	CC	CC
GNA_1827301_Capacity	Central Coast	Central Coast	RESERVATION ROAD BANK 1	1827301	Bank	None	None	None	33%	0.00	0%	29.69	9.71	33%	0	0%	29.69	9.71	33%	0	0%	29.69	9.7	33%	0	0%	29.69	9.71	33%	0	0%	29.69	9.71	33%	0	0%
GNA_182731101_Capacity	Central Coast	Central Coast	RESERVATION ROAD 1101	182731101	Feeder	None	None	None	31%	0.00	0%	10.28	3.17	31%	0	0%	10.28	3.18	31%	0	0%	10.28	3.18	31%	0	0%	10.28	3.18	31%	0	0%	10.28	3.18	31%	0	0%
GNA_182731102_Capacity	Central Coast	Central Coast	RESERVATION ROAD 1102	182731102	Feeder	None	None	None	80%	0.00	0%	10.28	8.24	80%	0	0%	10.28	8.21	80%	0	0%	10.28	8.18	80%	0	0%	10.28	8.16	79%	0	0%	10.28	8.13	79%	0	0%
GNA_1820104_Capacity	Central Coast	Central Coast	SALINAS BANK 4	1820104	Bank	None	None	None	64%	0.00	0%	44.50	25.93	58%	0	0%	44.50	26.33	59%	0	0%	44.50	25.95	58%	0	0%	44.50	28.58	64%	0	0%	44.50	28.16	63%	0	0%
GNA_182011101_Capacity	Central Coast	Central Coast	SALINAS 1101	182011101	Feeder	None	None	None	17%	0.00	0%	12.83	2.24	17%	0	0%	12.83	2.23	17%	0	0%	12.83	2.23	17%	0	0%	12.83	2.23	17%	0	0%	12.83	2.22	17%	0	0%
GNA_182011102_Capacity	Central Coast	Central Coast	SALINAS 1102	182011102	Feeder	None	None	None	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC
GNA_182011106_Capacity	Central Coast	Central Coast	SALINAS 1106	182011106	Feeder	None	None	None	74%	0.00	0%	12.83	8.84	69%	0	0%	12.83	9.51	74%	0	0%	12.83	9.39	73%	0	0%	12.83	9.27	72%	0	0%	12.83	9.14	71%	0	0%
GNA_182011107_Capacity	Central Coast	Central Coast	SALINAS 1107	182011107	Feeder	None	None	None	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC
GNA_182011106_Capacity	Central Coast	Central Coast	SALINAS BANK 6	18201106	Bank	None	None	None	94%	0.00	0%	44.54	37.34	84%	0	0%	44.54	38.22	86%	0	0%	44.54	42.08	94%	0	0%	44.54	39.27	88%	0	0%	44.54	39.42	89%	0	0%
GNA_182011103_Capacity	Central Coast	Central Coast	SALINAS 1103	182011103	Feeder	None	None	None	77%	0.00	0%	12.06	9.03	75%	0	0%	12.06	9.33	77%	0	0%	12.06	9.32	77%	0	0%	12.06	9.32	77%	0	0%	12.06	9.31	77%	0	0%
GNA_182011104_Capacity	Central Coast	Central Coast	SALINAS 1104	182011104	Feeder	None	None	None	75%	0.00	0%</																									

Facility Information				Distribution Service					Peak Deficiency and Loading				2021										2022										2023										2024										2025									
GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)																										
GNA_83671104_Capacity	Central Coast	De Anza	WOLFE 1104	083671104	Feeder	None	None	None	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC																									
GNA_83671105_Capacity	Central Coast	De Anza	WOLFE 1105	083671105	Feeder	Demand Growth	Capacity	2021	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC																									
GNA_83671106_Capacity	Central Coast	De Anza	WOLFE 1106	083671106	Feeder	None	None	None	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC																									
GNA_836702_Capacity	Central Coast	De Anza	WOLFE BANK 2	0836702	Bank	None	None	None	95%	0.00	0%	29.70	28.18	95%	0	0%	29.70	28.01	94%	0	0%	29.70	28.34	95%	0	0%	29.70	28.28	95%	0	0%	29.70	28.16	95%	0	0%																										
GNA_83671107_Capacity	Central Coast	De Anza	WOLFE 1107	083671107	Feeder	None	None	None	44%	0.00	0%	12.06	5.25	44%	0	0%	12.06	5.26	44%	0	0%	12.06	5.27	44%	0	0%	12.06	5.28	44%	0	0%	12.06	5.29	44%	0	0%																										
GNA_83671109_Capacity	Central Coast	De Anza	WOLFE 1109	083671109	Feeder	None	None	None	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC																									
GNA_83671110_Capacity	Central Coast	De Anza	WOLFE 1110	083671110	Feeder	None	None	None	100%	0.00	0%	11.57	11.11	96%	0	0%	11.57	11.05	96%	0	0%	11.57	11.58	100%	0.01	0%	11.57	11.57	100%	0	0%	11.57	11.54	100%	0	0%																										
GNA_836703_Capacity	Central Coast	De Anza	WOLFE BANK 3	0836703	Bank	None	None	None	53%	0.00	0%	44.60	20.54	46%	0	0%	44.60	21.13	47%	0	0%	44.60	23.59	53%	0	0%	44.60	23.32	52%	0	0%	44.60	23.32	52%	0	0%																										
GNA_83671113_Capacity	Central Coast	De Anza	WOLFE 1113	083671113	Feeder	None	None	None	100%	0.00	0%	12.83	8.87	69%	0	0%	12.83	12.79	100%	0	0%	12.83	12.82	100%	0	0%	12.83	12.56	98%	0	0%	12.83	12.59	98%	0	0%																										
GNA_83671114_Capacity	Central Coast	De Anza	WOLFE 1114	083671114	Feeder	None	None	None	92%	0.00	0%	12.83	11.75	92%	0	0%	12.83	10.73	84%	0	0%	12.83	10.73	84%	0	0%	12.83	10.71	83%	0	0%	12.83	10.67	83%	0	0%																										
GNA_822401_Capacity	Central Coast	De Anza	LOS ALTOS BANK 1	0822401	Bank	None	None	None	61%	0.00	0%	29.70	17.02	57%	0	0%	29.70	17.99	61%	0	0%	29.70	19	61%	0	0%	29.70	18.04	61%	0	0%	29.70	18.06	61%	0	0%																										
GNA_82241103_Capacity	Central Coast	De Anza	LOS ALTOS 1103	082241103	Feeder	None	None	None	60%	0.00	0%	4.02	2.4	60%	0	0%	4.02	2.4	60%	0	0%	4.02	2.41	60%	0	0%	4.02	2.42	60%	0	0%	4.02	2.42	60%	0	0%																										
GNA_82241104_Capacity	Central Coast	De Anza	LOS ALTOS 1104	082241104	Feeder	None</																																																								

GNA Need ID	Distribution Planning Region	Division	Facility Information		Distribution Service				Peak Deficiency and Loading				2021				2022				2023				2024				2025							
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)					
GNA_83421104_Capacity	Central Coast	De Anza	LAWRENCE 1104	083421104	Feeder	None	None	None	91%	0.00	0%	12.19	10.65	87%	0	0%	12.19	11.13	91%	0	0%	12.19	11.07	91%	0	0%	12.19	11.04	91%	0	0%					
GNA_83421105_Capacity	Central Coast	De Anza	LAWRENCE 1105	083421105	Feeder	None	None	None	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC					
GNA_8342202_Capacity	Central Coast	De Anza	LAWRENCE BANK 2	0834202	Bank	None	None	None	99%	0.00	0%	44.60	38.59	87%	0	0%	44.60	39.75	89%	0	0%	44.60	41.42	93%	0	0%	44.60	42.91	96%	0	0%					
GNA_83421106_Capacity	Central Coast	De Anza	LAWRENCE 1106	083421106	Feeder	None	None	None	96%	0.00	0%	12.19	8.52	70%	0	0%	12.19	9.8	80%	0	0%	12.19	11.67	96%	0	0%	12.19	11.67	96%	0	0%					
GNA_83421107_Capacity	Central Coast	De Anza	LAWRENCE 1107	083421107	Feeder	None	None	None	CC	CC	CC	12.06	CC	CC	CC	CC	12.06	CC	CC	CC	CC	12.06	CC	CC	CC	CC	12.06	CC	CC	CC	CC					
GNA_83421108_Capacity	Central Coast	De Anza	LAWRENCE 1108	083421108	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC					
GNA_83421109_Capacity	Central Coast	De Anza	LAWRENCE 1109	083421109	Feeder	None	None	None	CC	CC	CC	12.06	CC	CC	CC	CC	12.06	CC	CC	CC	CC	12.06	CC	CC	CC	CC	12.06	CC	CC	CC	CC					
GNA_834203_Capacity	Central Coast	De Anza	LAWRENCE BANK 3	0834203	Bank	None	None	None	69%	0.00	0%	47.53	32.61	69%	0	0%	47.53	32.55	68%	0	0%	47.53	32.49	68%	0	0%	47.53	32.52	68%	0	0%					
GNA_83421110_Capacity	Central Coast	De Anza	LAWRENCE 1110	083421110	Feeder	None	None	None	CC	CC	CC	12.44	CC	CC	CC	CC	12.44	CC	CC	CC	CC	12.44	CC	CC	CC	CC	12.44	CC	CC	CC	CC					
GNA_83421111_Capacity	Central Coast	De Anza	LAWRENCE 1111	083421111	Feeder	None	None	None	73%	0.00	0%	9.71	7.05	73%	0	0%	9.71	7.03	72%	0	0%	9.71	7.01	72%	0	0%	9.71	7	72%	0	0%					
GNA_83421112_Capacity	Central Coast	De Anza	LAWRENCE 1112	083421112	Feeder	None	None	None	90%	0.00	0%	11.57	10.22	88%	0	0%	11.57	10.25	89%	0	0%	11.57	10.31	89%	0	0%	11.57	10.39	90%	0	0%					
GNA_83421113_Capacity	Central Coast	De Anza	LAWRENCE 1113	083421113	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC					
GNA_829901_Capacity	Central Coast	De Anza	LOCKHEED NO.1 BANK 1	0829901	Bank	None	None	None	13%	0.00	0%	44.55	5.62	13%	0	0%	44.55	5.6	13%	0	0%	44.55	5.59	13%	0	0%	44.55	5.59	13%	0	0%					
GNA_82991105_Capacity	Central Coast	De Anza	LOCKHEED NO.1 1105	082991105	Feeder	None	None	None	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC					
GNA_829902_Capacity	Central Coast	De Anza	LOCKHEED NO.1 BANK 2	0829902	Bank	None	None	None	CC	CC	CC	44.50	CC	CC	CC	CC	44.50	CC	CC	CC	CC	44.50	CC	CC	CC	CC	44.50	CC	CC	CC	CC					
GNA_82991107_Capacity	Central Coast	De Anza	LOCKHEED NO.1 1107	082991107	Feeder	None	None	None	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC					
GNA_830001_Capacity	Central Coast	De Anza	LOCKHEED NO.2 BANK 1	0830001	Bank	None	None	None	CC	CC	CC	29.70	CC	CC	CC	CC	29.70	CC	CC	CC	CC	29.70	CC	CC	CC	CC	29.70	CC	CC	CC	CC					
GNA_83001106_Capacity	Central Coast	De Anza	LOCKHEED NO.2 1106	083001106	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC					
GNA_83001107_Capacity	Central Coast	De Anza	LOCKHEED NO.2 1107	083001107	Feeder	None	None	None	84%	0.00	0%	12.19	9.01	74%	0	0%	12.19	9.61	79%	0	0%	12.19	10.21	84%	0	0%	12.19	10.21	84%	0	0%					
GNA_83001108_Capacity	Central Coast	De Anza	LOCKHEED NO.2 1108	083001108	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC					
GNA_141001_Capacity	Bay Area	Diablo	ALHAMBRA BANK 1	0141001	Bank	Demand Growth	Capacity	2021	111%	1.33	8%	15.80	17.58	111%	1.78	11%	15.80	17.44	110%	1.64	10%	15.80	17.31	110%	1.51	10%	15.80	17.24	109%	1.44	9%	15.80	17.13	108%	1.33	8%
GNA_14101101_Capacity	Bay Area	Diablo	ALHAMBRA 1101	014101101	Feeder	None	None	None	51%	0.00	0%	10.46	5.32	51%	0	0%	10.46	5.25	50%	0	0%	10.46	5.2	50%	0	0%	10.46	5.16	49%	0	0%					
GNA_14101102_Capacity	Bay Area	Diablo	ALHAMBRA 1102	014101102	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC					
GNA_141002_Capacity	Bay Area	Diablo	ALHAMBRA BANK 2	0141002	Bank	None	None	None	84%	0.00	0%	10.40	8.7	84%	0	0%	10.40	8.61	83%	0	0%	10.40	8.57	82%	0	0%	10.40	8.57	82%	0	0%					
GNA_14101105_Capacity	Bay Area	Diablo	ALHAMBRA 1105	014101105	Feeder	None	None	None	92%	0.00	0%	9.77	9.02	92%	0	0%	9.77	8.92	91%	0	0%	9.77	8.88	91%	0	0%	9.77	8.89	91%	0	0%					
GNA_143201_Capacity	Bay Area	Diablo	BAIFOUR BANK 1	0143201	Bank	None	None	None	68%	0.00	0%	5.20	3.55	68%	0	0%	5.20	3.55	68%	0	0%	5.20	3.54	68%	0	0%	5.20	3.54	68%	0	0%					
GNA_14321101_Capacity	Bay Area	Diablo	BAIFOUR 1101	014321101	Feeder	None	None	None	73%	0.00	0%	5.15	3.74	73%	0	0%	5.15	3.73	72%	0	0%	5.15	3.72	72%	0	0%	5.15	3.71	72%	0	0%					
GNA_145901_Capacity	Bay Area	Diablo	BRENTWOOD BANK 1	0145901	Bank	None	None	None	60%	0.00	0%	67.98	38.69	57%	0	0%	67.98	39.97	59%	0	0%	67.98	40.52	60%	0	0%	67.98	40.6	60%	0	0%					
GNA_14592105_Capacity	Bay Area	Diablo	BRENTWOOD 2105	014592105	Feeder	None	None	None	80%	0.00	0%	21.41	16.2	76%	0	0%	21.41	16.69	78%	0	0%	21.41	17.19	80%	0	0%	21.41									

GNA Need ID	Distribution Planning Region	Division	Facility Information			Distribution Service				Peak Deficiency and Loading				2021				2022				2023				2024				2025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
GNA_14652105_Capacity	Bay Area	Diablo	TIDEWATER 2105	014652105	Feeder	None	None	None	CC	CC	CC	18.11	CC	CC	CC	CC	18.11	CC	CC	CC	CC	CC	18.11	CC	CC	CC	CC	CC	18.11	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC

GNA Need ID	Facility Information			Distribution Service					Peak Deficiency and Loading				2021				2022				2023				2024				2025			
	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	
GNA_12101103_Capacity	Bay Area	East Bay	OAKLAND K 1103	012101103	Feeder	None	None	None	81%	0.00	0%	7.36	5.97	81%	0	0%	7.36	5.96	81%	0	0%	7.36	5.94	81%	0	0%	7.36	5.93	81%	0	0%	
GNA_126901_Capacity	Bay Area	East Bay	FLORENCE BANK 1	0126901	Bank	None	None	None	37%	0.00	0%	2.28	0.82	36%	0	0%	2.28	0.83	36%	0	0%	2.28	0.83	36%	0	0%	2.28	0.84	37%	0	0%	
GNA_12690401_Capacity	Bay Area	East Bay	FLORENCE 0401	012690401	Feeder	None	None	None	31%	0.00	0%	2.62	0.79	30%	0	0%	2.62	0.79	30%	0	0%	2.62	0.79	30%	0	0%	2.62	0.8	31%	0	0%	
GNA_12101104_Capacity	Bay Area	East Bay	OAKLAND K 1104	012101104	Feeder	None	None	None	61%	0.00	0%	10.16	6.16	61%	0	0%	10.16	6.18	61%	0	0%	10.16	6.19	61%	0	0%	10.16	6.21	61%	0	0%	
GNA_125402_Capacity	Bay Area	East Bay	OAKLAND X BANK 2	0125402	Bank	None	None	None	44%	0.00	0%	29.68	12.93	44%	0	0%	29.68	12.98	44%	0	0%	29.68	13.03	44%	0	0%	29.68	13.07	44%	0	0%	
GNA_12541102_Capacity	Bay Area	East Bay	OAKLAND X 1102	012541102	Feeder	None	None	None	49%	0.00	0%	10.69	5.2	49%	0	0%	10.69	5.19	49%	0	0%	10.69	5.18	48%	0	0%	10.69	5.17	48%	0	0%	
GNA_126701_Capacity	Bay Area	East Bay	8TH AVENUE BANK 1	0126701	Bank	None	None	None	86%	0.00	0%	1.98	1.64	83%	0	0%	1.98	1.65	83%	0	0%	1.98	1.67	84%	0	0%	1.98	1.68	85%	0	0%	
GNA_12670401_Capacity	Bay Area	East Bay	8TH AVENUE 0401	012670401	Feeder	None	None	None	82%	0.00	0%	1.98	1.56	79%	0	0%	1.98	1.57	79%	0	0%	1.98	1.59	80%	0	0%	1.98	1.61	81%	0	0%	
GNA_12541112_Capacity	Bay Area	East Bay	OAKLAND X 1112	012541112	Feeder	None	None	None	60%	0.00	0%	8.45	5.02	59%	0	0%	8.45	5.02	59%	0	0%	8.45	5.03	60%	0	0%	8.45	5.04	60%	0	0%	
GNA_12541113_Capacity	Bay Area	East Bay	OAKLAND X 1113	012541113	Feeder	None	None	None	0%	0.00	0%	10.69	0	0%	0	0%	10.69	0	0%	0	0%	10.69	0	0%	0	0%	10.69	0	0%	0	0%	
GNA_12541114_Capacity	Bay Area	East Bay	OAKLAND X 1114	012541114	Feeder	None	None	None	29%	0.00	0%	8.49	2.43	29%	0	0%	8.49	2.44	29%	0	0%	8.49	2.45	29%	0	0%	8.49	2.46	29%	0	0%	
GNA_125442_Capacity	Bay Area	East Bay	OAKLAND X UNIT SUB#2	0125442	Bank	None	None	None	24%	0.00	0%	1.98	0.46	23%	0	0%	1.98	0.47	24%	0	0%	1.98	0.47	24%	0	0%	1.98	0.47	24%	0	0%	
GNA_12540402_Capacity	Bay Area	East Bay	OAKLAND X 0402	012540402	Feeder	None	None	None	CC	CC	CC	2.97	CC	CC	CC	CC	2.97	CC	CC	CC	CC	2.97	CC	CC	CC	CC	2.97	CC	CC	CC	CC	
GNA_125404_Capacity	Bay Area	East Bay	OAKLAND X BANK 4	0125404	Bank	None	None	None	83%	0.00	0%	29.68	24.32	82%	0	0%	29.68	24.41	82%	0	0%	29.68	24.5	83%	0	0%	29.68	24.58	83%	0	0%	
GNA_12541101_Capacity	Bay Area	East Bay	OAKLAND X 1101	012541101	Feeder	None	None	None	42%	0.00	0%	12.83	5.27	41%	0	0%	12.83	5.3	41%	0	0%	12.83	5.33	42%	0	0%	12.83	5.35	42%	0	0%	
GNA_133801_Capacity	Bay Area	East Bay	WOOD BANK 1	0133801	Bank	None	None	None	88%	0.00	0%	1.98	1.69	85%	0	0%	1.98	1.71	86%	0	0%	1.98	1.72	87%	0	0%	1.98	1.73	87%	0	0%	
GNA_13380401_Capacity	Bay Area	East Bay	WOOD 0401	013380401	Feeder	None	None	None	CC	CC	CC	2.18	CC	CC	CC	CC	2.18	CC	CC	CC	CC	2.18	CC	CC	CC	CC	2.18	CC	CC	CC	CC	
GNA_12541106_Capacity	Bay Area	East Bay	OAKLAND X 1106	012541106	Feeder	None	None	None	57%	0.00	0%	11.87	6.71	57%	0	0%	11.87	6.71	57%	0	0%	11.87	6.71	57%	0	0%	11.87	6.72	57%	0	0%	
GNA_12541109_Capacity	Bay Area	East Bay	OAKLAND X 1109	012541109	Feeder	None	None	None	CC	CC	CC	11.87	CC	CC	CC	CC	11.87	CC	CC	CC	CC	11.87	CC	CC	CC	CC	11.87	CC	CC	CC	CC	
GNA_12541110_Capacity	Bay Area	East Bay	OAKLAND X 1110	012541110	Feeder	None	None	None	0%	0.00	0%	11.87	0	0%	0	0%	11.87	0	0%	0	0%	11.87	0	0%	0	0%	11.87	0	0%	0	0%	
GNA_12541115_Capacity	Bay Area	East Bay	OAKLAND X 1115	012541115	Feeder	None	None	None	53%	0.00	0%	11.87	6.27	53%	0	0%	11.87	6.28	53%	0	0%	11.87	6.29	53%	0	0%	11.87	6.31	53%	0	0%	
GNA_125441_Capacity	Bay Area	East Bay	OAKLAND X UNIT SUB#1	0125441	Bank	None	None	None	72%	0.00	0%	1.98	1.38	70%	0	0%	1.98	1.39	70%	0	0%	1.98	1.4	71%	0	0%	1.98	1.41	71%	0	0%	
GNA_12540401_Capacity	Bay Area	East Bay	OAKLAND X 0401	012540401	Feeder	None	None	None	48%	0.00	0%	2.85	1.32	46%	0	0%	2.85	1.32	46%	0	0%	2.85	1.34	47%	0	0%	2.85	1.35	47%	0	0%	
GNA_125405_Capacity	Bay Area	East Bay	OAKLAND X BANK 5	0125405	Bank	None	None	None	82%	0.00	0%	29.68	24.37	82%	0	0%	29.68	24.4	82%	0	0%	29.68	24.42	82%	0	0%	29.68	24.44	82%	0	0%	
GNA_12541103_Capacity	Bay Area	East Bay	OAKLAND X 1103	012541103	Feeder	None	None	None	46%	0.00	0%	10.69	4.81	45%	0	0%	10.69	4.83	45%	0	0%	10.69	4.86	45%	0	0%	10.69	4.9	46%	0	0%	
GNA_12541104_Capacity	Bay Area	East Bay	OAKLAND X 1104	012541104	Feeder	None	None	None	58%	0.00	0%	12.83	7.37	57%	0	0%	12.83	7.4	58%	0	0%	12.83	7.43	58%	0	0%	12.83	7.45	58%	0	0%	
GNA_131701_Capacity	Bay Area	East Bay	HOLLYWOOD BANK 1	0131701	Bank	None	None	None	99%	0.00	0%	1.98	1.94	98%	0	0%	1.98	1.94	98%	0	0%	1.98	1.95	98%	0	0%	1.98	1.96	99%	0	0%	
GNA_13170401_Capacity	Bay Area	East Bay	HOLLYWOOD 0401	013170401	Feeder	None	None	None	86%	0.00	0%	2.18	1.85	85%	0	0%	2.18	1.86	85%	0	0%	2.18	1.87	86%	0	0%	2.18	1.87	86%	0	0%	
GNA_131805_Capacity	Bay Area	East Bay	PALO SECO BANK 5	0131805	Bank	None	None	None	62%	0.00	0%	2.47	1.52	62%	0	0%	2.47	1.53	62%	0	0%	2.47	1.53	62%	0	0%	2.47	1.54	62%	0	0%	
GNA_13180401_Capacity	Bay Area	East Bay	PALO SECO 0401	013180401	Feeder	None	None	None																								

GNA Need ID	Distribution Planning Region	Division	Facility Information			Distribution Service			Peak Deficiency and Loading			2021					2022					2023					2024					2025					
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	
GNA_136803_Capacity	Bay Area	East Bay	EDES BANK 3	0136803	Bank	Demand Growth	Capacity	2022	120%	0.00	0%	44.53	41.21	93%	0	0%	44.53	53.13	119%	8.6	19%	44.53	53.3	120%	8.77	20%	44.53	53.02	119%	8.49	19%	44.53	52.67	118%	8.14	18%	
GNA_13681110_Capacity	Bay Area	East Bay	EDES 1110	013681110	Feeder	None	None	None	CC	CC	CC	9.52	CC	CC	CC	CC	9.52	CC	CC	CC	CC	CC	9.52	CC	CC	CC	CC	CC	9.52	CC	CC	CC	CC	CC	9.52	CC	CC
GNA_13681111_Capacity	Bay Area	East Bay	EDES 1111	013681111	Feeder	Demand Growth	Capacity	2022	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC	CC	10.28	CC	CC	CC	CC	CC	10.28	CC	CC	CC	CC	CC	10.28	CC	CC
GNA_13681112_Capacity	Bay Area	East Bay	EDES 1112	013681112	Feeder	Demand Growth	Capacity	2022	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC	CC	10.28	CC	CC	CC	CC	CC	10.28	CC	CC	CC	CC	CC	10.28	CC	CC
GNA_13681113_Capacity	Bay Area	East Bay	EDES 1113	013681113	Feeder	Demand Growth	Capacity	2022	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	CC	11.57	CC	CC	CC	CC	CC	11.57	CC	CC	CC	CC	CC	11.57	CC	CC
GNA_13681114_Capacity	Bay Area	East Bay	EDES 1114	013681114	Feeder	None	None	None	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	CC	12.83	CC	CC	CC	CC	CC	12.83	CC	CC	CC	CC	CC	12.83	CC	CC
GNA_120901_Capacity	Bay Area	East Bay	OAKLAND J BANK 1	0120901	Bank	None	None	None	96%	0.00	0%	40.10	33.5	84%	0	0%	40.10	38.53	96%	0	0%	40.10	38.29	95%	0	0%	40.10	38.16	95%	0	0%	40.10	37.99	95%	0	0%	
GNA_12091101_Capacity	Bay Area	East Bay	OAKLAND J 1101	012091101	Feeder	Demand Growth	Capacity	2022	CC	CC	CC	9.13	CC	CC	CC	CC	9.13	CC	CC	CC	CC	CC	9.13	CC	CC	CC	CC	CC	9.13	CC	CC	CC	CC	CC	9.13	CC	CC
GNA_12091103_Capacity	Bay Area	East Bay	OAKLAND J 1103	012091103	Feeder	None	None	None	CC	CC	CC	4.83	CC	CC	CC	CC	4.83	CC	CC	CC	CC	CC	4.83	CC	CC	CC	CC	CC	4.83	CC	CC	CC	CC	CC	4.83	CC	CC
GNA_12091104_Capacity	Bay Area	East Bay	OAKLAND J 1104	012091104	Feeder	Demand Growth	Capacity	2022	CC	CC	CC	9.99	CC	CC	CC	CC	9.99	CC	CC	CC	CC	CC	9.99	CC	CC	CC	CC	CC	9.99	CC	CC	CC	CC	CC	9.99	CC	CC
GNA_12091105_Capacity	Bay Area	East Bay	OAKLAND J 1105	012091105	Feeder	None	None	None	88%	0.00	0%	10.28	8.76	85%	0	0%	10.28	8.83	86%	0	0%	10.28	8.93	87%	0	0%	10.28	9	88%	0	0%	10.28	9.07	88%	0	0%	
GNA_12091109_Capacity	Bay Area	East Bay	OAKLAND J 1109	012091109	Feeder	None	None	None	CC	CC	CC	8.64	CC	CC	CC	CC	8.64	CC	CC	CC	CC	CC	8.64	CC	CC	CC	CC	CC	8.64	CC	CC	CC	CC	CC	8.64	CC	CC
GNA_12091112_Capacity	Bay Area	East Bay	OAKLAND J 1112	012091112	Feeder	None	None	None	CC	CC	CC	11.97	CC	CC	CC	CC	11.97	CC	CC	CC	CC	CC	11.97	CC	CC	CC	CC	CC	11.97	CC	CC	CC	CC	CC	11.97	CC	CC
GNA_120902_Capacity	Bay Area	East Bay	OAKLAND J BANK 2	0120902	Bank	None	None	None	87%	0.00	0%	44.54	38.02	85%	0	0%	44.54	38.18	86%	0	0%	44.54	38.33	86%	0	0%	44.54	38.48	86%	0	0%	44.54	38.58	87%	0	0%	
GNA_120801_Capacity	Bay Area	East Bay	OAKLAND I BANK 1	0120801	Bank	None	None	None	50%	0.00	0%	1.98	0.97	49%	0	0%	1.98	0.97	49%	0	0%	1.98	0.98	49%	0	0%	1.98	0.98	49%	0	0%	1.98	0.99	50%	0	0%	
GNA_12080401_Capacity	Bay Area	East Bay	OAKLAND I 0401	012080401	Feeder	None	None	None	43%	0.00	0%	2.18	0.92	42%	0	0%	2.18	0.92	42%	0	0%	2.18	0.93	43%	0	0%	2.18	0.93	43%	0	0%	2.18	0.94	43%	0	0%	
GNA_120802_Capacity	Bay Area	East Bay	OAKLAND I BANK 2	0120802	Bank	None	None	None	89%	0.00	0%	1.98	1.75	88%	0	0%	1.98	1.75	88%	0	0%	1.98	1.76	89%	0	0%	1.98	1.77	89%	0	0%	1.98	1.77	89%	0	0%	
GNA_12080402_Capacity	Bay Area	East Bay	OAKLAND I 0402	012080402	Feeder	None	None	None	78%	0.00	0%	2.18	1.66	76%	0	0%	2.18	1.67	77%	0	0%	2.18	1.68	77%	0	0%	2.18	1.68	77%	0	0%	2.18	1.69	78%	0	0%	
GNA_12091102_Capacity	Bay Area	East Bay	OAKLAND J 1102	012091102	Feeder	None	None	None	91%	0.00	0%	9.92	8.74	88%	0	0%	9.92	8.81	89%	0	0%	9.92	8.89	90%	0	0%	9.92	8.98	91%	0	0%	9.92	9.05	91%	0	0%	
GNA_12091116_Capacity	Bay Area	East Bay	OAKLAND J 1116	012091116	Feeder	Demand Growth	Capacity	2021	115%	1.43	14%	10.16	11.59	114%	1.43	14%	10.16	11.62	114%	1.46	14%	10.16	11.66	115%	1.5	15%	10.16	11.68	115%	1.52	15%	10.16	11.7	115%	1.54	15%	
GNA_12091117_Capacity	Bay Area	East Bay	OAKLAND J 1117	012091117	Feeder	None	None	None	CC	CC	CC	10.90	CC	CC	CC	CC	10.90	CC	CC	CC	CC	CC	10.90	CC	CC	CC	CC	CC	10.90	CC	CC	CC	CC	CC	10.90	CC	CC
GNA_126401_Capacity	Bay Area	East Bay	BECK STREET BANK 1	0126401	Bank	None	None	None	19%	0.00	0%	2.48	0.47	19%	0	0%	2.48	0.47	19%	0	0%	2.48	0.47	19%	0	0%	2.48	0.47	19%	0	0%	2.48	0.47	19%	0	0%	
GNA_12640401_Capacity	Bay Area	East Bay	BECK STREET 0401	012640401	Feeder	None	None	None	17%	0.00	0%	2.72	0.45	17%	0	0%	2.72	0.45	17%	0	0%	2.72	0.45	17%	0	0%	2.72	0.45	17%	0	0%	2.72	0.45	17%	0	0%	
GNA_120903_Capacity	Bay Area	East Bay	OAKLAND J BANK 3	0120903	Bank	None	None	None	33%	0.00	0%	6.92	2.24	32%	0	0%	6.92	2.25	33%	0	0%	6.92	2.26	33%	0	0%	6.92	2.26	33%	0	0%	6.92	2.27	33%	0	0%	
GNA_12090403_Capacity	Bay Area	East Bay	OAKLAND J 0403	012090403	Feeder	None	None	None	69%	0.00	0%	2.35	1.59	68%	0	0%	2.35	1.59	68%	0	0%	2.35	1.6	68%	0	0%	2.35	1.6	68%	0	0%	2.35	1.61	69%	0	0%	
GNA_12090409_Capacity	Bay Area	East Bay	OAKLAND J 0409	012090409	Feeder	None	None	None	42%	0.00	0%	1.83	0.76	42%	0	0																					

Facility Information				Distribution Service					Peak Deficiency and Loading										2021										2022										2023										2024										2025									
GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (MW) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)																											
GNA_12060411_Capacity	Bay Area	East Bay	BERKELEY F 0411	012060411	Feeder	None	None	None	39%	0.00	0%	2.39	0.92	38%	0	0%	2.39	0.93	39%	0	0%	2.39	0.93	39%	0	0%	2.39	0.93	39%	0	0%	2.39	0.93	39%	0	0%	2.39	0.94	39%	0	0%																											
GNA_126601_Capacity	Bay Area	East Bay	BERKELEY T BANK 1	0126601	Bank	None	None	None	0%	0.00	0%	4.95	0	0%	0	0%	4.95	0	0%	0	0%	4.95	0	0%	0	0%	4.95	0	0%	0	0%	4.95	0	0%	4.95	0	0%	4.95	0	0%	4.95	0	0%																									
GNA_12660401_Capacity	Bay Area	East Bay	BERKELEY T 0401	012660401	Feeder	None	None	None	0%	0.00	0%	1.83	0	0%	0	0%	1.83	0	0%	0	0%	1.83	0	0%	0	0%	1.83	0	0%	0	0%	1.83	0	0%	1.83	0	0%	1.83	0	0%	1.83	0	0%																									
GNA_12660404_Capacity	Bay Area	East Bay	BERKELEY T 0404	012660404	Feeder	None	None	None	0%	0.00	0%	1.43	0	0%	0	0%	1.43	0	0%	0	0%	1.43	0	0%	0	0%	1.43	0	0%	0	0%	1.43	0	0%	1.43	0	0%	1.43	0	0%	1.43	0	0%																									
GNA_12061102_Capacity	Bay Area	East Bay	BERKELEY F 1102	012061102	Feeder	None	None	None	CC	CC	CC	8.19	CC	CC	CC	CC	8.19	CC	CC	CC	CC	8.19	CC	CC	CC	CC	8.19	CC	CC	CC	CC	8.19	CC	CC	8.19	CC	CC	8.19	CC	CC	8.19	CC	CC																									
GNA_12061103_Capacity	Bay Area	East Bay	BERKELEY F 1103	012061103	Feeder	None	None	None	CC	CC	CC	9.26	CC	CC	CC	CC	9.26	CC	CC	CC	CC	9.26	CC	CC	CC	CC	9.26	CC	CC	CC	CC	9.26	CC	CC	9.26	CC	CC	9.26	CC	CC	9.26	CC	CC																									
GNA_12061104_Capacity	Bay Area	East Bay	BERKELEY F 1104 (FT2/F1152)	012061104	Feeder	None	None	None	38%	0.00	0%	9.13	1.38	15%	0	0%	9.13	3.42	37%	0	0%	9.13	3.43	38%	0	0%	9.13	3.44	38%	0	0%	9.13	3.44	38%	0	0%	9.13	3.44	38%	0	0%																											
GNA_126602_Capacity	Bay Area	East Bay	BERKELEY T BANK 2	0126602	Bank	None	None	None	0%	0.00	0%	4.95	0	0%	0	0%	4.95	0	0%	0	0%	4.95	0	0%	0	0%	4.95	0	0%	0	0%	4.95	0	0%	4.95	0	0%	4.95	0	0%	4.95	0	0%																									
GNA_12660402_Capacity	Bay Area	East Bay	BERKELEY T 0402	012660402	Feeder	None	None	None	9%	0.00	0%	2.23	0.17	8%	0	0%	2.23	0.18	8%	0	0%	2.23	0.18	8%	0	0%	2.23	0.19	9%	0	0%	2.23	0.19	9%	0	0%	2.23	0.19	9%	0	0%																											
GNA_12660403_Capacity	Bay Area	East Bay	BERKELEY T 0403	012660403	Feeder	None	None	None	0%	0.00	0%	2.60	0	0%	0	0%	2.60	0	0%	0	0%	2.60	0	0%	0	0%	2.60	0	0%	0	0%	2.60	0	0%	2.60	0	0%	2.60	0	0%	2.60	0	0%																									
GNA_12061105_Capacity	Bay Area	East Bay	BERKELEY F 1105	012061105	Feeder	None	None	None	74%	0.00	0%	8.67	5.55	63%	0	0%	8.67	5.63	63%	0	0%	8.67	6.08	69%	0	0%	8.67	6.33	71%	0	0%	8.67	6.59	74%	0	0%	8.67	6.59	74%	0	0%																											
GNA_128402_Capacity	Bay Area	East Bay	RIDGE BANK 2	0128402	Bank	None	None	None	29%	0.00	0%	1.98	0.56	28%	0	0%	1.98	0.57	29%	0	0%	1.98	0.57	29%	0	0%	1.98	0.57	29%	0	0%	1.98	0.57	29%	0	0%	1.98	0.57	29%	0	0%																											
GNA_12840402_Capacity	Bay Area	East Bay	RIDGE 0402	012840402	Feeder	None	None	None	31%	0.00	0%	1.83	0.56	31%	0	0%	1.83	0.57	31%	0	0%	1.83	0.57	31%	0	0%	1.83	0.57	31%	0	0%	1.83	0.57	31%	0	0%	1.83	0.57	31%	0	0%																											
GNA_134702_Capacity	Bay Area	East Bay	RICHMOND R BANK 2	0134702	Bank	None	None	None	82%	0.00	0%	44.60	34.29	77%	0	0%	44.60	36.52	82%	0	0%	44.60	36.69	82%	0	0%	44.60	36.76	82%	0	0%	44.60	36.76	82%	0	0%	44.60	36.76	82%	0	0%																											
GNA_13471118_Capacity	Bay Area	East Bay	RICHMOND R 1118	013471118	Feeder	None	None	None	46%	0.00	0%	12.83	5.63	44%	0	0%	12.83	5.68	44%	0	0%	12.83	5.73	45%	0	0%	12.83	5.84	46%	0	0%	12.83	5.89	46%	0	0%	12.83	5.89	46%	0	0%																											
GNA_13471120_Capacity	Bay Area	East Bay	RICHMOND R 1120	013471120	Feeder	None	None	None	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	11.57	CC	CC	11.57	CC	CC	11.57	CC	CC																									
GNA_13471121_Capacity	Bay Area	East Bay	RICHMOND R 1121	013471121	Feeder	None	None	None	CC	CC	CC	9.09	CC	CC	CC	CC	9.09	CC	CC	CC	CC	9.09	CC	CC	CC	CC	9.09	CC	CC	CC	CC	9.09	CC	CC	9.09	CC	CC	9.09	CC	CC	9.09	CC	CC																									
GNA_13471123_Capacity	Bay Area	East Bay	RICHMOND R 1123	013471123	Feeder	None	None	None	CC	CC	CC	9.09	CC	CC	CC	CC	9.09	CC	CC	CC	CC	9.09	CC	CC	CC	CC	9.09	CC	CC	CC	CC	9.09	CC	CC	9.09	CC	CC	9.09	CC	CC	9.09	CC	CC																									
GNA_13471124_Capacity	Bay Area	East Bay	RICHMOND R 1124	013471124	Feeder	None	None	None	CC	CC	CC	9.99	CC	CC	CC	CC	9.99	CC	CC	CC	CC	9.99	CC	CC	CC	CC	9.99	CC	CC	CC	CC	9.99	CC	CC	9.99	CC	CC	9.99	CC	CC	9.99	CC	CC																									
GNA_13471125_Capacity	Bay Area	East Bay	RICHMOND R 1125	013471125	Feeder	None	None	None	86%	0.00	0%	7.70	6.65	86%	0	0%	7.70	6.6	86%	0	0%	7.70	6.58	85%	0	0%	7.70	6.59	86%	0	0%	7.70	6.59	86%	0	0%	7.70	6.6	86%	0	0%																											
GNA_125201_Capacity	Bay Area	East Bay	RICHMOND Q BANK 1	0125201	Bank	None	None	None	CC	CC	CC	2.47	CC	CC	CC	CC	2.47	CC	CC	CC	CC	2.47	CC	CC	CC	CC	2.47	CC	CC	CC	CC	2.47	CC	CC	2.47	CC	CC	2.47	CC	CC	2.47	CC	CC																									
GNA_12520401_Capacity	Bay Area	East Bay	RICHMOND Q 0401	012520401	Feeder	None	None	None	CC	CC	CC	2.23	CC	CC	CC	CC	2.23	CC	CC	CC	CC	2.23	CC	CC	CC	CC	2.23	CC	CC	CC	CC	2.23	CC	CC	2.23	CC	CC	2.23	CC	CC	2.23	CC	CC																									
GNA_137801_Capacity	Bay Area	East Bay	VIRGINIA BANK 1	0137801	Bank	None	None	None	45%	0.00	0%	1.98	0.88	44%	0	0%	1.98	0.89	45%	0	0%	1.98	0.89	45%	0	0%	1.98	0.9	45%	0	0%	1.98	0.9	45%	0	0%	1.98	0.9	45%	0	0%																											
GNA_137																																																																				

GNA Need ID	Distribution Planning Region	Division	Facility Information			Distribution Service			Peak Deficiency and Loading			2021					2022					2023					2024					2025				
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (MW) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)					
GNA_253921101_Capacity	Central Valley	Fresno	MANCHESTER 1101	253921101	Feeder	None	None	None	75%	0.00	0%	12.36	9.33	75%	0	0%	12.36	9.21	75%	0	0%	12.36	9.1	74%	0	0%	12.36	9.02	73%	0	0%	12.36	8.92	72%	0	0%
GNA_253921103_Capacity	Central Valley	Fresno	MANCHESTER 1103	253921103	Feeder	None	None	None	57%	0.00	0%	12.36	7.01	57%	0	0%	12.36	7.01	57%	0	0%	12.36	7.01	57%	0	0%	12.36	7.03	57%	0	0%	12.36	7.03	57%	0	0%
GNA_253921104_Capacity	Central Valley	Fresno	MANCHESTER 1104	253921104	Feeder	None	None	None	39%	0.00	0%	11.33	4.38	39%	0	0%	11.33	4.29	38%	0	0%	11.33	4.23	37%	0	0%	11.33	4.17	37%	0	0%	11.33	4.11	36%	0	0%
GNA_253921107_Capacity	Central Valley	Fresno	MANCHESTER 1107	253921107	Feeder	None	None	None	CC	CC	CC	8.13	CC	CC	CC	CC	8.13	CC	CC	CC	CC	8.13	CC	CC	CC	CC	8.13	CC	CC	CC	CC	8.13	CC	CC	CC	CC
GNA_2539202_Capacity	Central Valley	Fresno	MANCHESTER BANK 2	2539202	Bank	None	None	None	81%	0.00	0%	44.55	35.88	81%	0	0%	44.55	35.31	79%	0	0%	44.55	34.78	78%	0	0%	44.55	34.33	77%	0	0%	44.55	33.82	76%	0	0%
GNA_253921102_Capacity	Central Valley	Fresno	MANCHESTER 1102	253921102	Feeder	None	None	None	76%	0.00	0%	12.19	9.28	76%	0	0%	12.19	9.18	75%	0	0%	12.19	9.08	74%	0	0%	12.19	9.02	74%	0	0%	12.19	8.93	73%	0	0%
GNA_253921105_Capacity	Central Valley	Fresno	MANCHESTER 1105	253921105	Feeder	None	None	None	68%	0.00	0%	12.36	8.4	68%	0	0%	12.36	8.21	66%	0	0%	12.36	8.08	65%	0	0%	12.36	7.99	65%	0	0%	12.36	7.89	64%	0	0%
GNA_253921106_Capacity	Central Valley	Fresno	MANCHESTER 1106	253921106	Feeder	None	None	None	88%	0.00	0%	10.46	9.19	88%	0	0%	10.46	9.03	86%	0	0%	10.46	8.87	85%	0	0%	10.46	8.74	84%	0	0%	10.46	8.61	82%	0	0%
GNA_253921108_Capacity	Central Valley	Fresno	MANCHESTER 1108	253921108	Feeder	None	None	None	86%	0.00	0%	11.55	9.94	86%	0	0%	11.55	9.74	84%	0	0%	11.55	9.58	83%	0	0%	11.55	9.51	82%	0	0%	11.55	9.41	81%	0	0%
GNA_2539203_Capacity	Central Valley	Fresno	MANCHESTER BANK 3	2539203	Bank	None	None	None	87%	0.00	0%	44.55	38.91	87%	0	0%	44.55	38.4	86%	0	0%	44.55	37.93	85%	0	0%	44.55	37.56	84%	0	0%	44.55	37.12	83%	0	0%
GNA_253921109_Capacity	Central Valley	Fresno	MANCHESTER 1109	253921109	Feeder	None	None	None	88%	0.00	0%	11.33	9.99	88%	0	0%	11.33	9.71	86%	0	0%	11.33	9.45	83%	0	0%	11.33	9.21	81%	0	0%	11.33	9.05	80%	0	0%
GNA_253921110_Capacity	Central Valley	Fresno	MANCHESTER 1110	253921110	Feeder	None	None	None	86%	0.00	0%	11.33	9.79	86%	0	0%	11.33	9.74	86%	0	0%	11.33	9.69	86%	0	0%	11.33	9.67	85%	0	0%	11.33	9.64	85%	0	0%
GNA_253921111_Capacity	Central Valley	Fresno	MANCHESTER 1111	253921111	Feeder	None	None	None	95%	0.00	0%	10.76	10.19	95%	0	0%	10.76	10.04	93%	0	0%	10.76	9.9	92%	0	0%	10.76	9.8	91%	0	0%	10.76	9.7	90%	0	0%
GNA_253921112_Capacity	Central Valley	Fresno	MANCHESTER 1112	253921112	Feeder	None	None	None	89%	0.00	0%	10.76	9.59	89%	0	0%	10.76	9.49	88%	0	0%	10.76	9.39	87%	0	0%	10.76	9.33	87%	0	0%	10.76	9.24	86%	0	0%
GNA_2520401_Capacity	Central Valley	Fresno	AIRWAYS BANK 1	2520401	Bank	None	None	None	100%	0.00	0%	44.55	42.73	96%	0	0%	44.55	43.56	98%	0	0%	44.55	44.35	100%	0	0%	44.55	44.35	100%	0	0%	44.55	44.35	100%	0	0%
GNA_252041101_Capacity	Central Valley	Fresno	AIRWAYS 1101	252041101	Feeder	None	None	None	79%	0.00	0%	11.82	8.58	73%	0	0%	11.82	8.68	73%	0	0%	11.82	8.79	74%	0	0%	11.82	9.16	77%	0	0%	11.82	9.3	79%	0	0%
GNA_252041102_Capacity	Central Valley	Fresno	AIRWAYS 1102	252041102	Feeder	Demand Growth	Capacity	2022	105%	0.00	0%	12.19	12	98%	0	0%	12.19	12.3	101%	0.11	1%	12.19	12.47	102%	0.28	2%	12.19	12.65	104%	0.46	4%	12.19	12.8	105%	0.61	5%
GNA_252041103_Capacity	Central Valley	Fresno	AIRWAYS 1103	252041103	Feeder	None	None	None	79%	0.00	0%	12.19	9.31	76%	0	0%	12.19	9.39	77%	0	0%	12.19	9.39	77%	0	0%	12.19	9.52	78%	0	0%	12.19	9.63	79%	0	0%
GNA_252041104_Capacity	Central Valley	Fresno	AIRWAYS 1104	252041104	Feeder	None	None	None	99%	0.00	0%	12.83	12.72	99%	0	0%	12.83	12.29	96%	0	0%	12.83	12.34	96%	0	0%	12.83	12.39	97%	0	0%	12.83	12.44	97%	0	0%
GNA_2520402_Capacity	Central Valley	Fresno	AIRWAYS BANK 2	2520402	Bank	Demand Growth	Capacity	2024	102%	0.00	0%	44.55	41.9	94%	0	0%	44.55	43.18	97%	0	0%	44.55	44.31	99%	0	0%	44.55	45.2	101%	0.65	1%	44.55	45.28	102%	0.73	2%
GNA_252041105_Capacity	Central Valley	Fresno	AIRWAYS 1105	252041105	Feeder	None	None	None	97%	0.00	0%	11.82	11.18	95%	0	0%	11.82	11.36	96%	0	0%	11.82	11.42	97%	0	0%	11.82	11.42	97%	0	0%	11.82	11.42	97%	0	0%
GNA_252041106_Capacity	Central Valley	Fresno	AIRWAYS 1106	252041106	Feeder	None	None	None	84%	0.00	0%	12.83	9.31	73%	0	0%	12.83	10.16	79%	0	0%	12.83	10.8	84%	0	0%	12.83	10.82	84%	0	0%	12.83	10.82	84%	0	0%
GNA_252041107_Capacity	Central Valley	Fresno	AIRWAYS 1107	252041107	Feeder	Demand Growth	Capacity	2021	119%	0.71	6%	12.83	13.54	106%	0.71	6%	12.83	14.17	110%	1.34	10%	12.83	14.59	114%	1.76	14%	12.83	15.3	119%	2.47	19%	12.83	15.29	119%	2.46	19%
GNA_252041108_Capacity	Central Valley	Fresno	AIRWAYS 1108	252041108	Feeder	None	None	None	75%	0.00	0%	12.83	9.63	75%	0	0%	12.83	9.49	74%	0	0%	12.83	9.36	73%	0	0%	12.83	9.3	72%	0	0%	12.83	9.23	72%	0	0%
GNA_2540801_Capacity	Central Valley	Fresno	CLOVIS BANK 1	2540801	Bank	None	None	None	92%	0.00	0%	44.53	39.12	88%	0	0%	44.53	39.8	89%	0	0%	44.53	40.11													

GNA Need ID	Distribution Planning Region	Division	Facility Information			Distribution Service			Peak Deficiency and Loading			2021					2022					2023					2024					2025				
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (MW) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)
GNA_253151103_Capacity	Central Valley	Fresno	GIFFEN 1103	253151103	Feeder	None	None	None	77%	0.00	0%	12.19	9.17	75%	0	0%	12.19	9.15	75%	0	0%	12.19	9.36	77%	0	0%	12.19	9.36	77%	0	0%	12.19	9.34	77%	0	0%
GNA_2531601_Capacity_RF	Central Valley	Fresno	HURON BANK 1	2531601	Bank	High DG Penetration	Capacity	2021	-104%	-0.74	-4%	18.80	-19.1423875	-102%	-0.34238749	-2%	18.80	-19.2088021	-102%	-0.40880205	-2%	18.80	-19.3375605	-103%	-0.53756046	-3%	18.80	-19.4254065	-103%	-0.62540651	-3%	18.80	-19.5358981	-104%	-0.73589812	-4%
GNA_2531601_Capacity	Central Valley	Fresno	HURON BANK 1	2531601	Bank	None	None	None	88%	0.00	0%	18.80	16.57	88%	0	0%	18.80	16.43	87%	0	0%	18.80	16.38	87%	0	0%	18.80	16.41	87%	0	0%	18.80	16.44	87%	0	0%
GNA_253161106_Capacity	Central Valley	Fresno	HURON 1106	253161106	Feeder	None	None	None	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC
GNA_253161108_Capacity	Central Valley	Fresno	HURON 1108	253161108	Feeder	None	None	None	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC
GNA_253161112_Capacity	Central Valley	Fresno	HURON 1112	253161112	Feeder	None	None	None	56%	0.00	0%	10.69	5.81	54%	0	0%	10.69	5.81	54%	0	0%	10.69	5.86	55%	0	0%	10.69	5.91	55%	0	0%	10.69	5.96	56%	0	0%
GNA_253161116_Capacity	Central Valley	Fresno	HURON 1116	253161116	Feeder	None	None	None	55%	0.00	0%	10.69	5.84	55%	0	0%	10.69	5.83	55%	0	0%	10.69	5.83	55%	0	0%	10.69	5.83	55%	0	0%	10.69	5.82	54%	0	0%
GNA_2528902_Capacity	Central Valley	Fresno	SCHINDLER BANK 2	2528902	Bank	None	None	None	81%	0.00	0%	29.69	24.05	81%	0	0%	29.69	23.99	81%	0	0%	29.69	23.95	81%	0	0%	29.69	23.93	81%	0	0%	29.69	23.89	80%	0	0%
GNA_25289105_Capacity	Central Valley	Fresno	SCHINDLER 1105	252891105	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC
GNA_252891114_Capacity	Central Valley	Fresno	SCHINDLER 1114	252891114	Feeder	Demand Growth	Capacity	2021	118%	2.06	17%	12.19	14.37	118%	2.18	18%	12.19	14.34	118%	2.15	18%	12.19	14.3	117%	2.11	17%	12.19	14.28	117%	2.09	17%	12.19	14.25	117%	2.06	17%
GNA_252891116_Capacity	Central Valley	Fresno	SCHINDLER 1116	252891116	Feeder	None	None	None	CC	CC	CC	9.43	CC	CC	CC	CC	9.43	CC	CC	CC	CC	9.43	CC	CC	CC	CC	9.43	CC	CC	CC	CC	9.43	CC	CC	CC	CC
GNA_2528903_Capacity	Central Valley	Fresno	SCHINDLER BANK 3	2528903	Bank	None	Monitor	None	101%	0.09	0%	29.69	30.02	101%	0.33	1%	29.69	29.94	101%	0.25	1%	29.69	29.93	101%	0.24	1%	29.69	29.87	101%	0.18	1%	29.69	29.78	100%	0.09	0%
GNA_252891110_Capacity	Central Valley	Fresno	SCHINDLER 1110	252891110	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC
GNA_252891111_Capacity	Central Valley	Fresno	SCHINDLER 1111	252891111	Feeder	None	None	None	CC	CC	CC	11.46	CC	CC	CC	CC	11.46	CC	CC	CC	CC	11.46	CC	CC	CC	CC	11.46	CC	CC	CC	CC	11.46	CC	CC	CC	CC
GNA_252891112_Capacity	Central Valley	Fresno	SCHINDLER 1112	252891112	Feeder	Demand Growth	Capacity	2021	CC	CC	CC	9.62	CC	CC	CC	CC	9.62	CC	CC	CC	CC	9.62	CC	CC	CC	CC	9.62	CC	CC	CC	CC	9.62	CC	CC	CC	CC
GNA_2526601_Capacity	Central Valley	Fresno	GUERNSEY BANK 1	2526601	Bank	None	None	None	87%	0.00	0%	29.70	25.46	86%	0	0%	29.70	25.41	86%	0	0%	29.70	25.92	87%	0	0%	29.70	25.9	87%	0	0%	29.70	25.85	87%	0	0%
GNA_252661102_Capacity	Central Valley	Fresno	GUERNSEY 1102	252661102	Feeder	Demand Growth	Capacity	2021	119%	2.35	18%	12.83	15.27	119%	2.44	19%	12.83	15.24	119%	2.41	19%	12.83	15.22	119%	2.39	19%	12.83	15.2	118%	2.37	18%	12.83	15.18	118%	2.35	18%
GNA_252661104_Capacity	Central Valley	Fresno	GUERNSEY 1104	252661104	Feeder	None	None	None	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC
GNA_252661106_Capacity	Central Valley	Fresno	GUERNSEY 1106	252661106	Feeder	None	None	None	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC
GNA_2526602_Capacity	Central Valley	Fresno	GUERNSEY BANK 2	2526602	Bank	None	None	None	58%	0.00	0%	29.70	17.36	58%	0	0%	29.70	17.31	58%	0	0%	29.70	17.25	58%	0	0%	29.70	17.21	58%	0	0%	29.70	17.16	58%	0	0%
GNA_252661101_Capacity	Central Valley	Fresno	GUERNSEY 1101	252661101	Feeder	None	None	None	CC	CC	CC	12.12	CC	CC	CC	CC	12.12	CC	CC	CC	CC	12.12	CC	CC	CC	CC	12.12	CC	CC	CC	CC	12.12	CC	CC	CC	CC
GNA_252661103_Capacity	Central Valley	Fresno	GUERNSEY 1103	252661103	Feeder	None	None	None	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC
GNA_2526801_Capacity	Central Valley	Fresno	HENRIETTA BANK 1	2526801	Bank	None	None	None	40%	0.00	0%	29.70	11.24	38%	0	0%	29.70	11.41	38%	0	0%	29.70	11.39	38%	0	0%	29.70	11.75	40%	0	0%	29.70	11.71	39%	0	0%
GNA_252681104_Capacity	Central Valley	Fresno	HENRIETTA 1104	252681104	Feeder	None	None	None	CC	CC	CC	8.13	CC	CC	CC	CC	8.13	CC	CC	CC	CC	8.13	CC	CC	CC	CC	8.13	CC	CC	CC	CC	8.13	CC	CC	CC	CC
GNA_252681108_Capacity	Central Valley	Fresno	HENRIETTA 1108	252681108	Feeder	None	None	None	59%	0.00	0%	12.29	7.25	59%	0	0%	12.29	7.24	59%	0	0%	12.29	7.22	59%	0	0%	12.29	7.21	59%	0	0%	12.29	7.19	59%	0	0%
GNA_2526805_Capacity	Central Valley	Fres																																		

GNA Need ID	Facility Information				Distribution Service				Peak Deficiency and Loading				2021				2022				2023				2024				2025									
	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025		Peak Facility Loading (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	
GNA 253601102 Capacity	Central Valley	Fresno	LEMOORE 1102	253601102	Feeder	None	None	None	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	CC	12.83	CC	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC
GNA 253601104 Capacity	Central Valley	Fresno	LEMOORE 1104	253601104	Feeder	None	None	None	71%	0.00	0%	9.43	6.47	69%	0	0%	9.43	6.51	69%	0	0%	9.43	6.55	69%	0	0%	9.43	6.62	70%	0	0%	9.43	6.7	71%	0	0%		
GNA 253601105 Capacity	Central Valley	Fresno	LEMOORE 1105	253601105	Feeder	None	None	None	91%	0.00	0%	12.19	11.03	90%	0	0%	12.19	10.94	90%	0	0%	12.19	10.97	90%	0	0%	12.19	11.04	91%	0	0%	12.19	11.09	91%	0	0%		
GNA 2535301 Capacity	Central Valley	Fresno	BOWLES BANK 1	2535301	Bank	None	None	None	78%	0.00	0%	25.69	20.07	78%	0	0%	25.69	20.02	78%	0	0%	25.69	19.98	78%	0	0%	25.69	19.95	78%	0	0%	25.69	19.91	78%	0	0%		
GNA 253531101 Capacity	Central Valley	Fresno	BOWLES 1101	253531101	Feeder	None	None	None	88%	0.00	0%	10.16	8.93	88%	0	0%	10.16	8.93	88%	0	0%	10.16	8.92	88%	0	0%	10.16	8.91	88%	0	0%	10.16	8.9	88%	0	0%		
GNA 253531102 Capacity	Central Valley	Fresno	BOWLES 1102	253531102	Feeder	None	None	None	40%	0.00	0%	7.63	3.05	40%	0	0%	7.63	3.05	40%	0	0%	7.63	3.04	40%	0	0%	7.63	3.04	40%	0	0%	7.63	3.04	40%	0	0%		
GNA 253531103 Capacity	Central Valley	Fresno	BOWLES 1103	253531103	Feeder	None	None	None	49%	0.00	0%	8.55	4.2	49%	0	0%	8.55	4.18	49%	0	0%	8.55	4.18	49%	0	0%	8.55	4.17	49%	0	0%	8.55	4.15	49%	0	0%		
GNA 253531104 Capacity	Central Valley	Fresno	BOWLES 1104	253531104	Feeder	None	None	None	66%	0.00	0%	6.61	4.39	66%	0	0%	6.61	4.39	66%	0	0%	6.61	4.38	66%	0	0%	6.61	4.38	66%	0	0%	6.61	4.38	66%	0	0%		
GNA 2523701 Capacity	Central Valley	Fresno	CARUTHERS BANK 1	2523701	Bank	None	None	None	66%	0.00	0%	29.70	19.29	65%	0	0%	29.70	19.62	66%	0	0%	29.70	19.56	66%	0	0%	29.70	19.53	66%	0	0%	29.70	19.48	66%	0	0%		
GNA 252371101 Capacity	Central Valley	Fresno	CARUTHERS 1101	252371101	Feeder	None	None	None	93%	0.00	0%	11.67	10.82	93%	0	0%	11.67	10.8	93%	0	0%	11.67	10.78	92%	0	0%	11.67	10.78	92%	0	0%	11.67	10.76	92%	0	0%		
GNA 252371102 Capacity	Central Valley	Fresno	CARUTHERS 1102	252371102	Feeder	None	None	None	83%	0.00	0%	12.83	10.3	80%	0	0%	12.83	10.66	83%	0	0%	12.83	10.63	83%	0	0%	12.83	10.61	83%	0	0%	12.83	10.58	82%	0	0%		
GNA 2523702 Capacity	Central Valley	Fresno	CARUTHERS BANK 2	2523702	Bank	None	None	None	70%	0.00	0%	29.70	20.29	68%	0	0%	29.70	20.76	70%	0	0%	29.70	20.72	70%	0	0%	29.70	20.71	70%	0	0							

GNA Need ID	Distribution Planning Region	Division	Facility Information			Distribution Service			Peak Deficiency and Loading			2021					2022					2023					2024					2025				
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)
GNA_253731104_Capacity	Central Valley	Fresno	WEST FRESNO 1104	253731104	Feeder	None	None	None	85%	0.00	0%	12.19	10.42	85%	0	0%	12.19	10.31	85%	0	0%	12.19	10.22	84%	0	0%	12.19	10.19	84%	0	0%	12.19	10.17	83%	0	0%
GNA_253731109_Capacity	Central Valley	Fresno	WEST FRESNO 1109	253731109	Feeder	None	None	None	94%	0.00	0%	10.76	10.1	94%	0	0%	10.76	9.85	92%	0	0%	10.76	9.63	89%	0	0%	10.76	9.45	88%	0	0%	10.76	9.36	87%	0	0%
GNA_2537302_Capacity	Central Valley	Fresno	WEST FRESNO BANK 2	2537302	Bank	None	None	None	CC	CC	CC	44.55	CC	CC	CC	CC	44.55	CC	CC	CC	CC	44.55	CC	CC	CC	CC	44.55	CC	CC	CC	CC	44.55	CC	CC	CC	CC
GNA_253731105_Capacity	Central Valley	Fresno	WEST FRESNO 1105	253731105	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC
GNA_253731106_Capacity	Central Valley	Fresno	WEST FRESNO 1106	253731106	Feeder	None	None	None	50%	0.00	0%	10.46	5.28	50%	0	0%	10.46	5.15	49%	0	0%	10.46	5.01	48%	0	0%	10.46	4.88	47%	0	0%	10.46	4.75	45%	0	0%
GNA_253731107_Capacity	Central Valley	Fresno	WEST FRESNO 1107	253731107	Feeder	None	None	None	CC	CC	CC	11.33	CC	CC	CC	CC	11.33	CC	CC	CC	CC	11.33	CC	CC	CC	CC	11.33	CC	CC	CC	CC	11.33	CC	CC	CC	CC
GNA_253731108_Capacity	Central Valley	Fresno	WEST FRESNO 1108	253731108	Feeder	None	None	None	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC
GNA_253731110_Capacity	Central Valley	Fresno	WEST FRESNO 1110	253731110	Feeder	Demand Growth	Capacity	2021	CC	CC	CC	11.33	CC	CC	CC	CC	11.33	CC	CC	CC	CC	11.33	CC	CC	CC	CC	11.33	CC	CC	CC	CC	11.33	CC	CC	CC	CC
GNA_2537303_Capacity	Central Valley	Fresno	WEST FRESNO BANK 3	2537303	Bank	None	None	None	50%	0.00	0%	44.55	22.23	50%	0	0%	44.55	22.2	50%	0	0%	44.55	22.2	50%	0	0%	44.55	22.32	50%	0	0%	44.55	22.35	50%	0	0%
GNA_253731111_Capacity	Central Valley	Fresno	WEST FRESNO 1111	253731111	Feeder	None	None	None	94%	0.00	0%	12.19	10.97	94%	0	0%	12.19	11.44	94%	0	0%	12.19	11.37	93%	0	0%	12.19	11.43	94%	0	0%	12.19	11.38	93%	0	0%
GNA_253731112_Capacity	Central Valley	Fresno	WEST FRESNO 1112	253731112	Feeder	None	None	None	89%	0.00	0%	12.19	10.86	89%	0	0%	12.19	10.37	85%	0	0%	12.19	10.44	86%	0	0%	12.19	10.5	86%	0	0%	12.19	10.58	87%	0	0%
GNA_2529202_Capacity	Central Valley	Fresno	STONE CORRAL BANK 2	2529202	Bank	None	None	None	36%	0.00	0%	5.20	0	0%	0	0%	12.38	4.41	36%	0	0%	12.38	4.41	36%	0	0%	12.38	4.41	36%	0	0%	12.38	4.41	36%	0	0%
GNA_252921108_Capacity	Central Valley	Fresno	STONE CORRAL 1108	252921108	Feeder	None	None	None	68%	0.00	0%	6.99	4.76	68%	0	0%	6.99	4.75	68%	0	0%	6.99	4.74	68%	0	0%	6.99	4.73	68%	0	0%	6.99	4.72	68%	0	0%
GNA_2529203_Capacity	Central Valley	Fresno	STONE CORRAL BANK 3	2529203	Bank	None	None	None	CC	CC	CC	14.36	CC	CC	CC	CC	14.36	CC	CC	CC	CC	14.36	CC	CC	CC	CC	14.36	CC	CC	CC	CC	14.36	CC	CC	CC	CC
GNA_252921109_Capacity	Central Valley	Fresno	STONE CORRAL 1109	252921109	Feeder	None	None	None	CC	CC	CC	6.99	CC	CC	CC	CC	6.99	CC	CC	CC	CC	6.99	CC	CC	CC	CC	6.99	CC	CC	CC	CC	6.99	CC	CC	CC	CC
GNA_252921110_Capacity	Central Valley	Fresno	STONE CORRAL 1110	252921110	Feeder	None	None	None	84%	0.00	0%	3.72	3.11	84%	0	0%	3.72	3.1	83%	0	0%	3.72	3.09	83%	0	0%	3.72	3.09	83%	0	0%	3.72	3.08	83%	0	0%
GNA_2539601_Capacity	Central Valley	Fresno	BULLARD BANK 1	2539601	Bank	None	None	None	100%	0.00	0%	37.50	37.38	100%	0	0%	37.50	36.95	99%	0	0%	37.50	36.59	98%	0	0%	37.50	36.31	97%	0	0%	37.50	35.99	96%	0	0%
GNA_253962111_Capacity	Central Valley	Fresno	BULLARD 2111	253962111	Feeder	None	None	None	63%	0.00	0%	12.63	7.91	63%	0	0%	12.63	7.69	61%	0	0%	12.63	7.48	59%	0	0%	12.63	7.29	58%	0	0%	12.63	7.09	56%	0	0%
GNA_253962112_Capacity	Central Valley	Fresno	BULLARD 2112	253962112	Feeder	None	None	None	58%	0.00	0%	21.67	12.5	58%	0	0%	21.67	12.35	57%	0	0%	21.67	12.22	56%	0	0%	21.67	12.17	56%	0	0%	21.67	12.11	56%	0	0%
GNA_253962114_Capacity	Central Valley	Fresno	BULLARD 2114	253962114	Feeder	None	None	None	80%	0.00	0%	20.96	16.8	80%	0	0%	20.96	16.68	80%	0	0%	20.96	16.59	79%	0	0%	20.96	16.53	79%	0	0%	20.96	16.5	79%	0	0%
GNA_2540803_Capacity	Central Valley	Fresno	CLOVIS BANK 3	2540803	Bank	None	None	None	83%	0.00	0%	44.55	36.83	83%	0	0%	44.55	36.33	82%	0	0%	44.55	35.95	81%	0	0%	44.55	35.58	80%	0	0%	44.55	35.22	79%	0	0%
GNA_254082109_Capacity	Central Valley	Fresno	CLOVIS 2109	254082109	Feeder	None	None	None	52%	0.00	0%	21.11	10.89	52%	0	0%	21.11	10.76	51%	0	0%	21.11	10.73	51%	0	0%	21.11	10.78	51%	0	0%	21.11	10.81	51%	0	0%
GNA_254082110_Capacity	Central Valley	Fresno	CLOVIS 2110	254082110	Feeder	None	None	None	58%	0.00	0%	20.96	12.25	58%	0	0%	20.96	12.1	58%	0	0%	20.96	12.04	57%	0	0%	20.96	11.93	57%	0	0%	20.96	11.95	57%	0	0%
GNA_254082111_Capacity	Central Valley	Fresno	CLOVIS 2111	254082111	Feeder	None	None	None	74%	0.00	0%	20.96	15.47	74%	0	0%	20.96	15.11	72%	0	0%	20.96	14.76	70%	0	0%	20.96	14.44	69%	0	0%	20.96	14.11	67%	0	0%
GNA_2528501_Capacity	Central Valley	Fresno	PINEDALE BANK 1	2528501	Bank	None	None	None	88%	0.00	0%	44.55	39.24	88%	0	0%	44.55	39.18	88%	0	0%	44.55	39.18	88%	0	0%	44.55	38.84	87%	0	0%	44.55	38.37	86%	0	0%
GNA_252851101_Capacity	Central Valley	Fresno	PINEDALE 2101	252851																																

PG&E 2021 Grid Needs Assessment (GNA)

Appendix E: GNA Results - Bank & Feeder Capacity Needs

Version Date: 08/16/21

Public

GNA Need ID	Distribution Planning Region	Division	Facility Information			Distribution Service			Peak Deficiency and Loading			2021					2022					2023					2024					2025					
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	
GNA_43311108_Capacity	Northern	Humboldt	KONOCI 1108	043311108	Feeder	None	None	None	67%	0.00	0%	10.46	6.96	67%	0	0%	10.46	6.92	66%	0	0%	10.46	6.88	66%	0	0%	10.46	6.85	65%	0	0%	10.46	6.81	65%	0	0%	
GNA_433501_Capacity	Northern	Humboldt	LUCERNE BANK 1	0433501	Bank	None	None	None	57%	0.00	0%	12.40	6.9	56%	0	0%	12.40	6.94	56%	0	0%	12.40	6.98	56%	0	0%	12.40	7.03	57%	0	0%	12.40	7.1	57%	0	0%	
GNA_43351103_Capacity	Northern	Humboldt	LUCERNE 1103	043351103	Feeder	None	None	None	68%	0.00	0%	10.76	7.12	66%	0	0%	10.76	7.16	67%	0	0%	10.76	7.2	67%	0	0%	10.76	7.25	67%	0	0%	10.76	7.32	68%	0	0%	
GNA_4335106_Capacity	Northern	Humboldt	LUCERNE BANK 2	0433502	Bank	None	None	None	61%	0.00	0%	15.84	9.48	60%	0	0%	15.84	9.51	60%	0	0%	15.84	9.55	60%	0	0%	15.84	9.6	61%	0	0%	15.84	9.63	61%	0	0%	
GNA_43351106_Capacity	Northern	Humboldt	LUCERNE 1106	043351106	Feeder	None	None	None	88%	0.00	0%	10.76	9.28	86%	0	0%	10.76	9.31	87%	0	0%	10.76	9.35	87%	0	0%	10.76	9.4	87%	0	0%	10.76	9.44	88%	0	0%	
GNA_428701_Capacity	Northern	Humboldt	UPPER LAKE BANK 1	0428701	Bank	Demand Growth	Capacity	2021	110%	0.27	8%	3.24	3.55	110%	0.31	10%	3.24	3.54	109%	0.3	9%	3.24	3.53	109%	0.29	9%	3.24	3.52	109%	0.28	9%	3.24	3.51	108%	0.27	8%	
GNA_4287101_Capacity	Northern	Humboldt	UPPER LAKE 1101	042871101	Feeder	None	None	None	72%	0.00	0%	5.35	3.87	72%	0	0%	5.35	3.86	72%	0	0%	5.35	3.85	72%	0	0%	5.35	3.84	72%	0	0%	5.35	3.83	72%	0	0%	
GNA_1924301_Capacity	Northern	Humboldt	HARRIS BANK 1	1924301	Bank	None	None	None	45%	0.00	0%	15.84	6.84	43%	0	0%	15.84	6.88	43%	0	0%	15.84	6.93	44%	0	0%	15.84	7	44%	0	0%	15.84	7.06	45%	0	0%	
GNA_192431109_Capacity	Northern	Humboldt	HARRIS 1109	192431109	Feeder	None	None	None	67%	0.00	0%	10.69	6.95	65%	0	0%	10.69	7	65%	0	0%	10.69	7.05	66%	0	0%	10.69	7.12	67%	0	0%	10.69	7.18	67%	0	0%	
GNA_1924302_Capacity	Northern	Humboldt	HARRIS BANK 2	1924302	Bank	None	None	None	CC	CC	CC	12.32	CC	CC	CC	CC	12.32	CC	CC	CC	CC	CC	12.32	CC	CC	CC	CC	12.32	CC	CC	CC	CC	12.32	CC	CC	CC	CC
GNA_192431108_Capacity	Northern	Humboldt	HARRIS 1108	192431108	Feeder	None	None	None	CC	CC	CC	11.40	CC	CC	CC	CC	11.40	CC	CC	CC	CC	CC	11.40	CC	CC	CC	CC	11.40	CC	CC	CC	CC	11.40	CC	CC	CC	CC
GNA_1923411_Capacity	Northern	Humboldt	HUM BAY BANK NO. BANK 11	1923411	Bank	None	None	None	CC	CC	CC	10.40	CC	CC	CC	CC	10.40	CC	CC	CC	CC	CC	10.40	CC	CC	CC	CC	10.40	CC	CC	CC	CC	10.40	CC	CC	CC	CC
GNA_192341101_Capacity	Northern	Humboldt	HUMBOLDT BAY 1101	192341101	Feeder	None	None	None	CC	CC	CC	7.12	CC	CC	CC	CC	7.12	CC	CC	CC	CC	CC	7.12	CC	CC	CC	CC	7.12	CC	CC	CC	CC	7.12	CC	CC	CC	CC
GNA_192341102_Capacity	Northern	Humboldt	HUMBOLDT BAY 1102	192341102	Feeder	None	None	None	62%	0.00	0%	6.91	4.21	61%	0	0%	6.91	4.23	61%	0	0%	6.91	4.25	62%	0	0%	6.91	4.28	62%	0	0%	6.91	4.3	62%	0	0%	
GNA_1921201_Capacity	Northern	Humboldt	EUREKA A BANK 1	1921201	Bank	None	None	None	71%	0.00	0%	12.40	8.76	71%	0	0%	12.40	8.75	71%	0	0%	12.40	8.75	71%	0	0%	12.40	8.76	71%	0	0%	12.40	8.76	71%	0	0%	
GNA_192121103_Capacity	Northern	Humboldt	EUREKA A 1103	192121103	Feeder	None	None	None	16%	0.00	0%	10.69	1.76	16%	0	0%	10.69	1.75	16%	0	0%	10.69	1.74	16%	0	0%	10.69	1.73	16%	0	0%	10.69	1.72	16%	0	0%	
GNA_192121106_Capacity	Northern	Humboldt	EUREKA A 1106	192121106	Feeder	None	None	None	CC	CC	CC	9.99	CC	CC	CC	CC	9.99	CC	CC	CC	CC	CC	9.99	CC	CC	CC	CC	9.99	CC	CC	CC	CC	9.99	CC	CC	CC	CC
GNA_192121107_Capacity	Northern	Humboldt	EUREKA A 1107	192121107	Feeder	None	None	None	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC
GNA_1923301_Capacity	Northern	Humboldt	EUREKA E BANK 1	1923301	Bank	None	None	None	46%	0.00	0%	19.75	8.43	43%	0	0%	19.75	8.45	43%	0	0%	19.75	9.01	46%	0	0%	19.75	9.04	46%	0	0%	19.75	9.07	46%	0	0%	
GNA_192331101_Capacity	Northern	Humboldt	EUREKA E 1101	192331101	Feeder	None	None	None	CC	CC	CC	9.99	CC	CC	CC	CC	9.99	CC	CC	CC	CC	CC	9.99	CC	CC	CC	CC	9.99	CC	CC	CC	CC	9.99	CC	CC	CC	CC
GNA_192331104_Capacity	Northern	Humboldt	EUREKA E 1104	192331104	Feeder	None	None	None	40%	0.00	0%	10.52	3.99	38%	0	0%	10.52	4.04	38%	0	0%	10.52	4.09	39%	0	0%	10.52	4.14	39%	0	0%	10.52	4.19	40%	0	0%	
GNA_192331105_Capacity	Northern	Humboldt	EUREKA E 1105	192331105	Feeder	None	None	None	CC	CC	CC	7.51	CC	CC	CC	CC	7.51	CC	CC	CC	CC	CC	7.51	CC	CC	CC	CC	7.51	CC	CC	CC	CC	7.51	CC	CC	CC	CC
GNA_1924501_Capacity	Northern	Humboldt	FAIRHAVEN BANK 1	1924501	Bank	None	None	None	CC	CC	CC	12.38	CC	CC	CC	CC	12.38	CC	CC	CC	CC	CC	12.38	CC	CC	CC	CC	12.38	CC	CC	CC	CC	12.38	CC	CC	CC	CC
GNA_192451103_Capacity	Northern	Humboldt	FAIRHAVEN 1103	192451103	Feeder	None	None	None	17%	0.00	0%	10.69	1.77	17%	0	0%	10.69	1.77	17%	0	0%	10.69	1.77	17%	0	0%	10.69	1.78	17%	0	0%	10.69	1.78	17%	0	0%	
GNA_192451104_Capacity	Northern	Humboldt	FAIRHAVEN 1104	192451104	Feeder	None	None	None	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC
GNA_1923201_Capacity	Northern	Humboldt	FORT SEWARD BANK 1	1923201	Bank	None	None	None	CC	CC	CC	1.62	CC	CC	CC	CC	1.62	CC	CC	CC	CC	CC	1.62	CC	CC	CC	CC	1.62	CC	CC	CC	CC	1.62	CC	CC	CC	CC
GNA_192321121_Capacity	Northern	Humboldt	FORT SEWARD 1121	192321121	Feeder	None	None	None	CC	CC	CC	3.21	CC	CC	CC	CC	3.21	CC	CC	CC	CC	CC	3.21	CC	CC	CC	CC	3.21	CC	CC	CC	CC	3.21	CC	CC	CC	CC
GNA_192321122_Capacity	Northern	Humboldt	FORT SEWARD 1122	192321122	Feeder	None	None	None	CC	CC	CC	3.21	CC	CC	CC	CC	3.21	CC	CC	CC	CC	CC	3.21	CC	CC	CC	CC	3.21	CC	CC	CC	CC	3.21	CC	CC	CC	CC
GNA_1923101_Capacity	Northern	Humboldt	FRUITLAND BANK 1	1923101	Bank	None	None	None	CC	CC	CC	4.70	CC	CC	CC	CC	12.00	CC	CC	CC	CC	CC	12.00	CC	CC	CC	CC	12.00	CC	CC	CC	CC	12.00	CC	CC	CC	CC
GNA_192311141_Capacity	Northern	Humboldt	FRUITLAND 1141	192311141	Feeder	None	None	None	CC	CC	CC	6.09	CC	CC	CC	CC	6.09	CC	CC	CC	CC	CC	6.09	CC	CC	CC	CC	6.09	CC	CC	CC	CC	6.09	CC	CC	CC	CC
GNA_192311142_Capacity	Northern	Humboldt	FRUITLAND 1142	192311142	Feeder	None	None	None	CC	CC	CC	6.09	CC	CC	CC	CC	6.09	CC	CC	CC	CC	CC	6.09	CC	CC	CC	CC	6.09	CC	CC	CC	CC	6.09	CC	CC	CC	CC
GNA_1922201_Capacity	Northern	Humboldt	GARBERVILLE BANK 1	1922201	Bank	Demand Growth	Capacity	2022	155%	0.00	0%	12.32	12.24	99%	0	0%	12.32	12.39	101%	0.07	1%	12.32	12.54	102%	0.22	2%	12.32	18.92	154%	6.6	54%	12.32	19.07	155%	6.75	55%	
GNA_192221101_Capacity	Northern	Humboldt	GARBERVILLE 1101	192221101	Feeder	None	None	None	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC
GNA_192221102_Capacity	Northern	Humboldt	GARBERVILLE 1102	192221102	Feeder	Demand Growth	Capacity	2024	137%	0.00	0%	7.93	6.82	86%	0	0%	7.93	6.85	86%	0	0%	7.93	6.88	87%	0	0%	7.93	10.83	137%	2.9	37%	7.93	10.89	137%	2.96	37%	
GNA_192221103_Capacity	Northern	Humboldt	GARBERVILLE 1103	192221103	Feeder	None	None	None	22%	0.00	0%	8.13	1.76	22%	0	0%	8.13	1.75	22%	0	0%	8.13	1.74	21%	0	0%	8.13	1.73	21%	0	0%	8.13	1.72	21%	0	0%	
GNA_422501_Capacity	Northern	Humboldt	HOPLAND BANK 1	0422501	Bank	None	None	None	CC	CC	CC	11.84	CC	CC	CC	CC	11.84	CC	CC	CC	CC	CC	11.84	CC	CC	CC	CC	11.84	CC	CC	CC	CC	11.84	CC	CC	CC	CC
GNA_42251101_Capacity	Northern	Humboldt	HOPLAND 1101	042251101	Feeder	Demand Growth	Capacity	2021	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC
GNA_1921001_Capacity	Northern	Humboldt	MAPLE CREEK BANK 1	1921001	Bank	None	None	None	CC	CC	CC	1.90	CC	CC	CC	CC	1.90	CC	CC	CC	CC	CC	1.90	CC	CC	CC	CC	1.90	CC	CC	CC	CC	1.90	CC	CC	CC	CC
GNA_192101101_Capacity	Northern	Humboldt	MAPLE CREEK 1101	192101101	Feeder	None	None	None	CC	CC	CC	2.14	CC	CC	CC	CC	2.14	CC	CC	CC	CC	CC	2.14	CC	CC	CC	CC	2.14	CC	CC	CC	CC	2.14	CC	CC	CC	CC
GNA_430801_Capacity	Northern	Humboldt	BIG RIVER BANK 1	0430801	Bank	None	None	None	CC	CC	CC	4.95	CC	CC	CC	CC	4.95	CC	CC	CC	CC	CC															

GNA Need ID	Distribution Planning Region	Division	Facility Information		Distribution Service			Peak Deficiency and Loading				2021					2022					2023					2024					2025				
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)
GNA_192401101_Capacity	Northern	Humboldt	HOOPA 1101	192401101	Feeder	None	None	None	50%	0.00	0%	8.55	4.1	48%	0	0%	8.55	4.14	48%	0	0%	8.55	4.18	49%	0	0%	8.55	4.22	49%	0	0%	8.55	4.26	50%	0	0%
GNA_1921701_Capacity	Northern	Humboldt	WILLOW CREEK BANK 1	1921701	Bank	None	None	None	87%	0.00	0%	7.40	6.42	87%	0	0%	7.40	6.41	87%	0	0%	7.40	6.39	86%	0	0%	7.40	6.38	86%	0	0%	7.40	6.37	86%	0	0%
GNA_192171101_Capacity	Northern	Humboldt	WILLOW CREEK 1101	192171101	Feeder	None	None	None	CC	CC	CC	4.53	CC	CC	CC	CC	4.53	CC	CC	CC	CC	4.53	CC	CC	CC	CC	4.53	CC	CC	CC	CC	4.53	CC	CC	CC	CC
GNA_192171102_Capacity	Northern	Humboldt	WILLOW CREEK 1102	192171102	Feeder	None	None	None	11%	0.00	0%	3.21	0.35	11%	0	0%	3.21	0.35	11%	0	0%	3.21	0.35	11%	0	0%	3.21	0.34	11%	0	0%	3.21	0.34	11%	0	0%
GNA_192171103_Capacity	Northern	Humboldt	WILLOW CREEK 1103	192171103	Feeder	None	None	None	48%	0.00	0%	6.05	2.92	48%	0	0%	6.05	2.9	48%	0	0%	6.05	2.89	48%	0	0%	6.05	2.88	48%	0	0%	6.05	2.86	47%	0	0%
GNA_2538001_Capacity	Central Valley	Kern	ARVIN BANK 1	2538001	Bank	Demand Growth	Capacity	2021	123%	2.48	21%	11.76	14.24	121%	2.48	21%	11.76	14.24	121%	2.48	21%	11.76	14.42	123%	2.66	23%	11.76	14.42	123%	2.66	23%	11.76	14.42	123%	2.66	23%
GNA_253801101_Capacity	Central Valley	Kern	ARVIN 1101	253801101	Feeder	None	None	None	65%	0.00	0%	10.46	6.66	64%	0	0%	10.46	6.66	64%	0	0%	10.46	6.85	65%	0	0%	10.46	6.85	65%	0	0%	10.46	6.85	65%	0	0%
GNA_253801102_Capacity	Central Valley	Kern	ARVIN 1102	253801102	Feeder	None	None	None	CC	CC	CC	6.41	CC	CC	CC	CC	6.41	CC	CC	CC	CC	6.41	CC	CC	CC	CC	6.41	CC	CC	CC	CC	6.41	CC	CC	CC	CC
GNA_253801103_Capacity	Central Valley	Kern	ARVIN 1103	253801103	Feeder	None	None	None	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC
GNA_2534101_Capacity	Central Valley	Kern	LAKEVIEW BANK 1	2534101	Bank	None	None	None	93%	0.00	0%	17.63	15.76	89%	0	0%	17.63	16.36	93%	0	0%	17.63	16.31	93%	0	0%	17.63	15.8	90%	0	0%	17.63	14.51	82%	0	0%
GNA_253411102_Capacity	Central Valley	Kern	LAKEVIEW 1102	253411102	Feeder	None	None	None	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC
GNA_253411103_Capacity	Central Valley	Kern	LAKEVIEW 1103	253411103	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC
GNA_2534102_Capacity	Central Valley	Kern	LAKEVIEW BANK 2	2534102	Bank	None	None	None	CC	CC	CC	29.70	CC	CC	CC	CC	29.70	CC	CC	CC	CC	29.70	CC	CC	CC	CC	29.70	CC	CC	CC	CC	29.70	CC	CC	CC	CC
GNA_253411106_Capacity	Central Valley	Kern	LAKEVIEW 1106 (old 1103)	253411106	Feeder	Demand Growth	Capacity	2024	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC
GNA_253411107_Capacity	Central Valley	Kern	LAKEVIEW 1107 (old 1101)	253411107	Feeder	None	None	None	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC
GNA_2528201_Capacity	Central Valley	Kern	OLD RIVER BANK 1 (old Bank 2 feeders)	2528201	Bank	None	None	None	86%	0.00	0%	29.69	25.33	85%	0	0%	29.69	25.67	86%	0	0%	29.69	25.61	86%	0	0%	29.69	25.56	86%	0	0%	29.69	25.5	86%	0	0%
GNA_252821101_Capacity	Central Valley	Kern	OLD RIVER 1101	252821101	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC
GNA_252821102_Capacity	Central Valley	Kern	OLD RIVER 1102	252821102	Feeder	None	None	None	82%	0.00	0%	10.46	8.26	79%	0	0%	10.46	8.6	82%	0	0%	10.46	8.6	82%	0	0%	10.46	8.59	82%	0	0%	10.46	8.58	82%	0	0%
GNA_252821105_Capacity	Central Valley	Kern	OLD RIVER 1105	252821105	Feeder	None	None	None	CC	CC	CC	15.67	CC	CC	CC	CC	15.67	CC	CC	CC	CC	15.67	CC	CC	CC	CC	15.67	CC	CC	CC	CC	15.67	CC	CC	CC	CC
GNA_2528202_Capacity	Central Valley	Kern	OLD RIVER BANK 2 (old Bank 1 feeders)	2528202	Bank	None	None	None	90%	0.00	0%	15.84	14.28	90%	0	0%	15.84	14.26	90%	0	0%	15.84	14.25	90%	0	0%	15.84	14.23	90%	0	0%	15.84	14.22	90%	0	0%
GNA_252821103_Capacity	Central Valley	Kern	OLD RIVER 1103	252821103	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC
GNA_252821104_Capacity	Central Valley	Kern	OLD RIVER 1104	252821104	Feeder	None	None	None	74%	0.00	0%	12.19	9	74%	0	0%	12.19	8.99	74%	0	0%	12.19	8.99	74%	0	0%	12.19	8.98	74%	0	0%	12.19	8.97	74%	0	0%
GNA_2531901_Capacity	Central Valley	Kern	SAN BERNARD BANK 1	2531901	Bank	Demand Growth	Capacity	2021	CC	CC	CC	18.56	CC	CC	CC	CC	18.56	CC	CC	CC	CC	18.56	CC	CC	CC	CC	18.56	CC	CC	CC	CC	18.56	CC	CC	CC	CC
GNA_253191101_Capacity	Central Valley	Kern	SAN BERNARD 1101	253191101	Feeder	None	None	None	CC	CC	CC	11.67	CC	CC	CC	CC	11.67	CC	CC	CC	CC	11.67	CC	CC	CC	CC	11.67	CC	CC	CC	CC	11.67	CC	CC	CC	CC
GNA_253191102_Capacity	Central Valley	Kern	SAN BERNARD 1102	253191102	Feeder	Demand Growth	Capacity	2021	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC
GNA_253191104_Capacity	Central Valley	Kern	SAN BERNARD 1104	253191104	Feeder	None	None	None	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC
GNA_2529301_Capacity	Central Valley	Kern	TEJON BANK 1	2529301	Bank	Demand Growth	Capacity	2023	110%	0.00	0%	17.63	16.35	93%	0	0%	17.63	16.38	93%	0	0%	17.63	18.71	106%	1.08	6%	17.63	18.99	108%	1.35	8%	17.63	19.35	110%	1.72	10%
GNA_252931101_Capacity	Central Valley	Kern	TEJON 1102	252931102	Feeder	Demand Growth	Capacity	2021	123%	0.82	8%	10.46	11.35	109%	0.89	9%	10.46	11.28	108%	0.82	8%	10.46	12.16	116%	1.7	16%	10.46	12.45	119%	1.99	19%	10.46	12.86	123%	2.4	23%
GNA_252931103_Capacity	Central Valley	Kern	TEJON 1103	252931103	Feeder	None	None	None	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC
GNA_2529302_Capacity	Central Valley	Kern	TEJON BANK 2	2529302	Bank	None	None	None	55%	0.00	0%	29.70	14.06	47%	0	0%	29.70	16.09	54%	0	0%	29.70	16.4	55%	0	0%	29.70	16.38	55%	0	0%	29.70	16.36	55%	0	0%
GNA_252931105_Capacity	Central Valley	Kern	TEJON 1105	252931105	Feeder	None	None	None	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC
GNA_252931106_Capacity	Central Valley	Kern	TEJON 1106	252931106	Feeder	None	None	None	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC
GNA_2534801_Capacity	Central Valley	Kern	WHEELER RIDGE BANK 1	2534801	Bank	Demand Growth	Capacity	2023	CC	CC	CC	25.43	CC	CC	CC	CC	25.43	CC	CC	CC	CC	25.43	CC	CC	CC	CC	25.43	CC	CC	CC	CC	25.43	CC	CC	CC	CC
GNA_253481101_Capacity	Central Valley	Kern	WHEELER RIDGE 1101	253481101	Feeder	Demand Growth	Capacity	2023	CC	CC	CC	10.16	CC	CC	CC	CC	10.16	CC	CC	CC	CC	10.16	CC	CC	CC	CC	10.16	CC	CC	CC	CC	10.16	CC	CC	CC	CC
GNA_253481102_Capacity	Central Valley	Kern	WHEELER RIDGE 1102	253481102	Feeder	None	None	None	CC	CC	CC	9.62	CC	CC	CC	CC	9.62	CC	CC	CC	CC	9.62	CC	CC	CC	CC	9.62	CC	CC	CC	CC	9.62	CC	CC	CC	CC
GNA_253481103_Capacity	Central Valley	Kern	WHEELER RIDGE 1103	253481103	Feeder	None	None	None	CC	CC	CC	5.73	CC	CC	CC	CC	5.73	CC	CC	CC	CC	5.73	CC	CC	CC	CC	5.73	CC	CC	CC	CC	5.73	CC	CC	CC	CC
GNA_2520201_Capacity	Central Valley	Kern	ANTELOPE BANK 1	2520201	Bank	None	None	None	40%	0.00	0%	15.84	6.28	40%	0	0%	15.84	6.26	40%	0	0%	15.84	6.25	39%	0	0%	15.84	6.24	39%	0	0%	15.84	6.23	39%	0	0%
GNA_252021101_Capacity	Central Valley	Kern	ANTELOPE 1101	252021101	Feeder	None	None	None	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC
GNA_252021102_Capacity	Central Valley	Kern	ANTELOPE 1102	252021102	Feeder	None	None	None	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC	8.55	CC	CC	CC	CC
GNA_2546801_Capacity_RF	Central Valley	Kern	BLACKWELL BANK 1	2546801	Bank	High DG Penetration	Capacity	2021	-109%	-1.06	-9%	12.38	-12.6290077	-102%	-0.24900774	-2%	12.38	-12.8201926	-104%	-0.44019259	-4%	12.38	-13.0192859	-105%	-0.6392859	-5%	12.38	-13.2146689	-107%	-0.83466889	-7%</					

GNA Need ID	Distribution Planning Region	Division	Facility Information			Distribution Service			Peak Deficiency and Loading			2021					2022					2023					2024					2025						
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)		
GNA_252861103_Capacity	Central Valley	Kern	RIO BRAVO 1103	252861103	Feeder	None	None	None	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	CC	10.46	CC	CC	CC	CC
GNA_2536501_Capacity	Central Valley	Kern	SHAFTER BANK 1	2536501	Bank	None	None	None	66%	0.00	0%	25.08	16.08	64%	0	0%	25.08	16.17	64%	0	0%	25.08	16.27	65%	0	0%	25.08	16.37	65%	0	0%	25.08	16.47	66%	0	0%		
GNA_253651102_Capacity	Central Valley	Kern	SHAFTER 1102	253651102	Feeder	None	None	None	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	CC	10.46	CC	CC	CC	CC
GNA_253651103_Capacity	Central Valley	Kern	SHAFTER 1103	253651103	Feeder	None	None	None	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	CC	10.46	CC	CC	CC	CC
GNA_253651104_Capacity	Central Valley	Kern	SHAFTER 1104	253651104	Feeder	None	None	None	50%	0.00	0%	10.46	5.06	48%	0	0%	10.46	5.11	49%	0	0%	10.46	5.13	49%	0	0%	10.46	5.16	49%	0	0%	10.46	5.19	50%	0	0%		
GNA_2536503_Capacity	Central Valley	Kern	SHAFTER BANK 3	2536503	Bank	None	None	None	39%	0.00	0%	44.55	16.9	38%	0	0%	44.55	17.21	39%	0	0%	44.55	17.29	39%	0	0%	44.55	17.36	39%	0	0%	44.55	17.41	39%	0	0%		
GNA_253651111_Capacity	Central Valley	Kern	SHAFTER 1111	253651111	Feeder	None	None	None	66%	0.00	0%	13.60	8.71	64%	0	0%	13.60	8.76	64%	0	0%	13.60	8.85	65%	0	0%	13.60	8.94	66%	0	0%	13.60	9	66%	0	0%		
GNA_253651112_Capacity	Central Valley	Kern	SHAFTER 1112 (Old 1101)	253651112	Feeder	None	None	None	98%	0.00	0%	10.46	10.04	96%	0	0%	10.46	10.3	98%	0	0%	10.46	10.28	98%	0	0%	10.46	10.27	98%	0	0%	10.46	10.25	98%	0	0%		
GNA_2545601_Capacity	Central Valley	Kern	TUPMAN BANK 1	2545601	Bank	Demand Growth	Capacity	2021	116%	1.77	11%	15.84	17.61	111%	1.77	11%	15.84	18.3	116%	2.46	16%	15.84	18.28	115%	2.44	15%	15.84	18.28	115%	2.44	15%	15.84	18.26	115%	2.42	15%		
GNA_254561103_Capacity	Central Valley	Kern	TUPMAN 1103	254561103	Feeder	None	None	None	69%	0.00	0%	12.19	8.02	66%	0	0%	12.19	8.44	69%	0	0%	12.19	8.43	69%	0	0%	12.19	8.43	69%	0	0%	12.19	8.42	69%	0	0%		
GNA_254561104_Capacity	Central Valley	Kern	TUPMAN 1104	254561104	Feeder	None	None	None	87%	0.00	0%	12.19	10.37	85%	0	0%	12.19	10.66	87%	0	0%	12.19	10.65	87%	0	0%	12.19	10.65	87%	0	0%	12.19	10.64	87%	0	0%		
GNA_2545602_Capacity	Central Valley	Kern	TUPMAN BANK 2	2545602	Bank	None	None	None	43%	0.00	0%	44.53	19.32	43%	0	0%	44.53	19.3	43%	0	0%	44.53	19.28	43%	0	0%	44.53	19.27	43%	0	0%	44.53	19.26	43%	0	0%		
GNA_254561105_Capacity	Central Valley	Kern	TUPMAN 1105	254561105	Feeder	None	None	None	43%	0.00	0%	14.26	6.09	43%	0	0%	14.26	6.09	43%	0	0%	14.26	6.09	43%	0	0%	14.26	6.08	43%	0	0%	14.26	6.08	43%	0	0%		
GNA_254561106_Capacity	Central Valley	Kern	TUPMAN 1106	254561106	Feeder	None	None	None	CC	CC	CC	14.26	CC	CC	CC	CC	14.26	CC	CC	CC	CC	CC	14.26	CC	CC	CC	CC	14.26	CC	CC	CC	CC	CC	14.26	CC	CC	CC	CC
GNA_2527801_Capacity	Central Valley	Kern	MCKITTRICK BANK 1	2527801	Bank	None	None	None	CC	CC	CC	11.89	CC	CC	CC	CC	11.89	CC	CC	CC	CC	CC	11.89	CC	CC	CC	CC	11.89	CC	CC	CC	CC	CC	11.89	CC	CC	CC	CC
GNA_252781101_Capacity	Central Valley	Kern	MCKITTRICK 1101	252781101	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	CC	12.19	CC	CC	CC	CC
GNA_2525501_Capacity	Central Valley	Kern	TEMBLOR BANK 1	2525501	Bank	None	None	None	CC	CC	CC	19.75	CC	CC	CC	CC	19.75	CC	CC	CC	CC	CC	19.75	CC	CC	CC	CC	19.75	CC	CC	CC	CC	CC	19.75	CC	CC	CC	CC
GNA_252551104_Capacity	Central Valley	Kern	TEMBLOR 1104	252551104	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	CC	12.19	CC	CC	CC	CC
GNA_252552103_Capacity	Central Valley	Kern	TEMBLOR 2103	252552103	Feeder	None	None	None	CC	CC	CC	13.53	CC	CC	CC	CC	13.53	CC	CC	CC	CC	CC	13.53	CC	CC	CC	CC	13.53	CC	CC	CC	CC	CC	13.53	CC	CC	CC	CC
GNA_2536401_Capacity	Central Valley	Kern	POSO MOUNTAIN BANK 1	2536401	Bank	None	None	None	CC	CC	CC	19.80	CC	CC	CC	CC	19.80	CC	CC	CC	CC	CC	19.80	CC	CC	CC	CC	19.80	CC	CC	CC	CC	CC	19.80	CC	CC	CC	CC
GNA_253642101_Capacity	Central Valley	Kern	POSO MOUNTAIN 2101	253642101	Feeder	None	None	None	CC	CC	CC	22.22	CC	CC	CC	CC	22.22	CC	CC	CC	CC	CC	22.22	CC	CC	CC	CC	22.22	CC	CC	CC	CC	CC	22.22	CC	CC	CC	CC
GNA_2536402_Capacity	Central Valley	Kern	POSO MOUNTAIN BANK 2	2536402	Bank	None	None	None	CC	CC	CC	44.55	CC	CC	CC	CC	44.55	CC	CC	CC	CC	CC	44.55	CC	CC	CC	CC	44.55	CC	CC	CC	CC	CC	44.55	CC	CC	CC	CC
GNA_253642103_Capacity	Central Valley	Kern	POSO MOUNTAIN 2103	253642103	Feeder	None	None	None	CC	CC	CC	19.07	CC	CC	CC	CC	19.07	CC	CC	CC	CC	CC	19.07	CC	CC	CC	CC	19.07	CC	CC	CC	CC	CC	19.07	CC	CC	CC	CC
GNA_253642104_Capacity	Central Valley	Kern	POSO MOUNTAIN 2104	253642104	Feeder	None	None	None	CC	CC	CC	22.22	CC	CC	CC	CC	22.22	CC	CC	CC	CC	CC	22.22	CC	CC	CC	CC	22.22	CC	CC	CC	CC	CC	22.22	CC	CC	CC	CC
GNA_2538701_Capacity	Central Valley	Kern	COPUS BANK 1	2538701	Bank	None	None	None	CC	CC	CC	11.29	CC	CC	CC	CC	11.29	CC	CC	CC	CC	CC	11.29	CC	CC	CC	CC	11.29	CC	CC	CC	CC	CC	11.29	CC	CC	CC	CC
GNA_253871102_Capacity	Central Valley	Kern	COPUS 1102	253871102	Feeder	None	None	None	CC	CC	CC	5.73	CC	CC	CC	CC	5.73	CC	CC	CC	CC	CC	5.73	CC	CC	CC	CC	5.73	CC	CC	CC	CC	CC	5.73	CC	CC	CC	CC
GNA_253871103_Capacity	Central Valley	Kern	COPUS 1103	253871103	Feeder	None	None	None	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC	CC	10.69	CC	CC	CC	CC
GNA_2538702_Capacity	Central Valley	Kern	COPUS BANK 2	2538702	Bank	None	None	None	CC	CC	CC	15.84	CC	CC	CC	CC	15.84	CC	CC	CC	CC	CC	15.84	CC	CC	CC	CC	15.84	CC	CC	CC	CC	CC	15.84	CC	CC	CC	CC
GNA_253871104_Capacity	Central Valley	Kern	COPUS 1104	253871104	Feeder	None	None	None	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	CC	12.83	CC	CC	CC	CC	12.83	CC	CC	CC	CC	CC	12.83	CC	CC	CC	CC
GNA_2542401_Capacity	Central Valley	Kern	FELLOWS BANK 1	2542401	Bank	None	None	None	CC	CC	CC	29.70	CC	CC	CC	CC	29.70	CC	CC	CC	CC	CC	29.70	CC	CC	CC	CC	29.70	CC	CC	CC	CC	CC	29.70	CC	CC	CC	CC
GNA_254242103_Capacity	Central Valley	Kern	FELLOWS 2103	254242103	Feeder	None	None	None	CC	CC	CC	26.22	CC	CC	CC	CC	26.22	CC	CC	CC	CC	CC	26.22	CC	CC	CC	CC	26.22	CC	CC	CC	CC	CC	26.22	CC	CC	CC	CC
GNA_2542402_Capacity	Central Valley	Kern	FELLOWS BANK 2	2542402	Bank	None	None	None	CC	CC	CC	29.70	CC	CC	CC	CC	29.70	CC	CC	CC	CC	CC	29.70	CC	CC	CC	CC	29.70	CC	CC	CC	CC	CC	29.70	CC	CC	CC	CC
GNA_254242104_Capacity	Central Valley	Kern	FELLOWS 2104	254242104	Feeder	None	None	None	CC	CC	CC	26.22	CC	CC	CC	CC	26.22	CC	CC	CC	CC	CC	26.22	CC	CC	CC	CC	26.22	CC	CC	CC	CC	CC	26.22	CC	CC	CC	CC
GNA_2542101_Capacity	Central Valley	Kern	MARICOPA BANK 1	2542101	Bank	None	None	None	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC	CC	10.76	CC	CC	CC	CC
GNA_254211101_Capacity	Central Valley	Kern	MARICOPA 1101	254211101	Feeder	None	None	None	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	CC	10.46	CC	CC	CC	CC
GNA_254211102_Capacity	Central Valley	Kern	MARICOPA 1102	254211102	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	CC	12.19	CC	CC	CC	CC
GNA_2520803_Capacity	Central Valley	Kern	TAFT BANK 3	2520803	Bank	None	None	None	67%	0.00	0%	10.40	6.95	67%	0	0%	10.40	6.88	66%	0	0%	10.40	6.81	65%	0	0%	10.40	6.75	65%	0	0%	10.40	6.7	64%	0	0%		
GNA_252081101_Capacity	Central Valley	Kern	TAFT 1101	252081101	Feeder	None	None	None	33%	0.00	0%	10.16	3.31	33%	0	0%	10.16	3.28	32%	0	0%	10.16	3.24	32%	0	0%	10.16	3.21	32%	0	0%	10.16	3.17	31%	0	0%		
GNA_252081103_Capacity	Central Valley	Kern	TAFT 1103	252081103	Feeder	None	None	None	46%	0.00	0%	8.25	3.78	46%	0	0%	8.25	3.77	46%	0	0%	8.25	3.75	45%	0	0%	8.25	3.75	45%	0	0%	8.25	3.74	45%	0	0%		
GNA_2520804_Capacity	Central Valley	Kern	TAFT BANK 4	2520804	Bank	None	None	None	84%	0.00	0%	15.84	13.26	84%	0	0%	15.84	13.15																				

Facility Information										Distribution Service		Peak Deficiency and Loading				2021				2022				2023				2024				2025					
GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	
GNA_252721114_Capacity	Central Valley	Kern	KERN OIL 1114	252721114	Feeder	None	None	None	CC	CC	CC	10.31	CC	CC	CC	CC	10.31	CC	CC	CC	CC	CC	10.31	CC	CC	CC	CC	10.31	CC	CC	CC	CC	10.31	CC	CC	CC	CC
GNA_252721116_Capacity	Central Valley	Kern	KERN OIL 1116	252721116	Feeder	Demand Growth	Capacity	2021	103%	0.35	3%	11.33	11.68	103%	0.35	3%	11.33	11.68	103%	0.35	3%	11.33	11.68	103%	0.35	3%	11.33	11.68	103%	0.35	3%	11.33	11.68	103%	0.35	3%	
GNA_2527203_Capacity	Central Valley	Kern	KERN OIL BANK 3	2527203	Bank	None	None	None	CC	CC	CC	44.53	CC	CC	CC	CC	44.53	CC	CC	CC	CC	CC	44.53	CC	CC	CC	CC	44.53	CC	CC	CC	CC	44.53	CC	CC	CC	CC
GNA_252721104_Capacity	Central Valley	Kern	KERN OIL 1104	252721104	Feeder	None	None	None	CC	CC	CC	12.29	CC	CC	CC	CC	12.29	CC	CC	CC	CC	CC	12.29	CC	CC	CC	CC	12.29	CC	CC	CC	CC	12.29	CC	CC	CC	CC
GNA_252721106_Capacity	Central Valley	Kern	KERN OIL 1106	252721106	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC
GNA_252721108_Capacity	Central Valley	Kern	KERN OIL 1108	252721108	Feeder	None	None	None	CC	CC	CC	12.29	CC	CC	CC	CC	12.29	CC	CC	CC	CC	CC	12.29	CC	CC	CC	CC	12.29	CC	CC	CC	CC	12.29	CC	CC	CC	CC
GNA_2545801_Capacity	Central Valley	Kern	7TH STANDARD BANK 1	2545801	Bank	None	None	None	86%	0.00	0%	44.55	38.31	86%	0	0%	44.55	38.23	86%	0	0%	44.55	38.18	86%	0	0%	44.55	38.17	86%	0	0%	44.55	38.25	86%	0	0%	
GNA_254582101_Capacity	Central Valley	Kern	7TH STANDARD 2101	254582101	Feeder	None	None	None	74%	0.00	0%	21.41	15.86	74%	0	0%	21.41	15.87	74%	0	0%	21.41	15.9	74%	0	0%	21.41	15.93	74%	0	0%	21.41	15.94	74%	0	0%	
GNA_254582102_Capacity	Central Valley	Kern	7TH STANDARD 2102	254582102	Feeder	None	None	None	CC	CC	CC	21.41	CC	CC	CC	CC	21.41	CC	CC	CC	CC	CC	21.41	CC	CC	CC	CC	21.41	CC	CC	CC	CC	21.41	CC	CC	CC	CC
GNA_254582103_Capacity	Central Valley	Kern	7TH STANDARD 2103	254582103	Feeder	None	None	None	98%	0.00	0%	8.81	8.44	98%	0	0%	8.81	8.48	98%	0	0%	8.81	8.53	97%	0	0%	8.81	8.59	98%	0	0%	8.81	8.66	98%	0	0%	
GNA_2533901_Capacity	Central Valley	Kern	FRUITVALE BANK 1	2533901	Bank	None	None	None	46%	0.00	0%	17.63	8.14	46%	0	0%	17.63	8.12	46%	0	0%	17.63	8.1	46%	0	0%	17.63	8.09	46%	0	0%	17.63	8.07	46%	0	0%	
GNA_253391101_Capacity	Central Valley	Kern	FRUITVALE BANK 1	253391101	Feeder	None	None	None	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC
GNA_253391103_Capacity	Central Valley	Kern	FRUITVALE 1103	253391103	Feeder	None	None	None	77%	0.00	0%	10.46	8.02	77%	0																						

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Facility Information				Distribution Service				Peak Deficiency and Loading				2021				2022				2023				2024				2025				
GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	
GNA_182671111_Capacity	Central Coast	Los Padres	SANTA MARIA 1111	182671111	Feeder	None	None	None	CC	CC	CC	12.06	CC	CC	CC	CC	12.06	CC	CC	CC	CC	CC	12.06	CC	CC	CC	CC	12.06	CC	CC	CC	CC
GNA_182671112_Capacity	Central Coast	Los Padres	SANTA MARIA 1112	182671112	Feeder	None	None	None	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC
GNA_1830401_Capacity	Central Coast	Los Padres	BUELLTON BANK 1	1830401	Bank	None	None	None	96%	0.00	0%	10.40	9.93	95%	0	0%	10.40	9.9	95%	0	0%	10.40	9.9	95%	0	0%	10.40	9.95	96%	0	0%	
GNA_183041101_Capacity	Central Coast	Los Padres	BUELLTON 1101	183041101	Feeder	None	None	None	84%	0.00	0%	12.19	10.27	84%	0	0%	12.19	10.24	84%	0	0%	12.19	10.24	84%	0	0%	12.19	10.28	84%	0	0%	
GNA_1830402_Capacity	Central Coast	Los Padres	BUELLTON BANK 2	1830402	Bank	None	None	None	98%	0.00	0%	10.40	10.24	98%	0	0%	10.40	10.14	98%	0	0%	10.40	10.04	97%	0	0%	10.40	9.94	96%	0	0%	
GNA_183041102_Capacity	Central Coast	Los Padres	BUELLTON 1102	183041102	Feeder	None	None	None	78%	0.00	0%	12.19	9.46	78%	0	0%	12.19	9.36	77%	0	0%	12.19	9.25	76%	0	0%	12.19	9.15	75%	0	0%	
GNA_1827201_Capacity	Central Coast	Los Padres	SANTA YNEZ BANK 1	1827201	Bank	None	None	None	78%	0.00	0%	10.40	8.13	78%	0	0%	10.40	8.14	78%	0	0%	10.40	8.15	78%	0	0%	10.40	8.16	78%	0	0%	
GNA_182721101_Capacity	Central Coast	Los Padres	SANTA YNEZ 1101	182721101	Feeder	None	None	None	62%	0.00	0%	11.82	7.27	62%	0	0%	11.82	7.28	62%	0	0%	11.82	7.29	62%	0	0%	11.82	7.3	62%	0	0%	
GNA_1827202_Capacity	Central Coast	Los Padres	SANTA YNEZ BANK 2	1827202	Bank	None	None	None	68%	0.00	0%	29.70	20.17	68%	0	0%	29.70	20.15	68%	0	0%	29.70	20.12	68%	0	0%	29.70	20.1	68%	0	0%	
GNA_182721102_Capacity	Central Coast	Los Padres	SANTA YNEZ 1102	182721102	Feeder	None	None	None	83%	0.00	0%	12.19	10.06	83%	0	0%	12.19	10.02	82%	0	0%	12.19	9.99	82%	0	0%	12.19	9.95	82%	0	0%	
GNA_182721104_Capacity	Central Coast	Los Padres	SANTA YNEZ 1104	182721104	Feeder	None	None	None	92%	0.00	0%	12.19	11.04	91%	0	0%	12.19	11.07	91%	0	0%	12.19	11.1	91%	0	0%	12.19	11.13	91%	0	0%	
GNA_1836801_Capacity	Central Coast	Los Padres	ZACA BANK 1	1836801	Bank	None	None	None	77%	0.00	0%	10.40	7.99	77%	0	0%	10.40	7.99	77%	0	0%	10.40	7.99	76%	0	0%	10.40	7.93	76%	0	0%	
GNA_183681101_Capacity	Central Coast	Los Padres	ZACA 1101	183681101	Feeder	None	None	None	CC	CC	CC	7.93	CC	CC	CC	CC	7.93	CC	CC	CC	CC	CC	7.93	CC	CC	CC	CC	7.93	CC	CC	CC	CC
GNA_182681102_Capacity	Central Coast	Los Padres	ZACA 1102	182681102	Feeder	None	None	None	75%	0.00	0%	10.69	8	75%	0	0%	10.69	7.98	75%	0	0%	10.69	7.97	75%	0	0%	10.69	7.97	75%	0	0%	
GNA_1830301_Capacity	Central Coast	Los Padres	PALMER BANK 1	1830301	Bank	None																										

GNA_1029401_Capacity	Northern	North Valley	DAYTON ROAD BANK 1	1029401	Bank	None	None	None	None	55%	0.00	0%	1.98	1.08	55%	0	0%	1.98	1.08	55%	0	0%	1.98	1.08	55%	0	0%	1.98	1.08	55%	0	0%					
GNA_102940401_Capacity	Northern	North Valley	DAYTON ROAD 0401	102940401	Feeder	None	None	None	None	57%	0.00	0%	1.98	1.12	57%	0	0%	1.98	1.12	57%	0	0%	1.98	1.12	57%	0	0%	1.98	1.12	57%	0	0%					
GNA_1024901_Capacity	Northern	North Valley	CHICO B BANK 1 (TCAP'd)	1024901	Bank	None	None	None	None	CC	CC	CC	17.82	CC	CC	CC	CC	15.84	CC	CC	CC	CC	CC	15.84	CC	CC	CC	CC	CC	15.84	CC	CC	CC	CC			
GNA_102491101_Capacity	Northern	North Valley	CHICO B 1101	102491101	Feeder	None	None	None	None	74%	0.00	0%	10.46	7.77	74%	0	0%	10.46	7	67%	0	0%	10.46	6.98	67%	0	0%	10.46	6.97	67%	0	0%	10.46	6.95	66%	0	0%
GNA_102491102_Capacity	Northern	North Valley	CHICO B 1102	102491102	Feeder	None	None	None	None	CC	CC	CC	9.02	CC	CC	CC	CC	9.02	CC	CC	CC	CC	CC	9.02	CC	CC	CC	CC	CC	9.02	CC	CC	CC	CC			
GNA_102491103_Capacity	Northern	North Valley	CHICO B 1103	102491103	Feeder	None	None	None	None	57%	0.00	0%	10.46	5.92	57%	0	0%	10.46	5.92	57%	0	0%	10.46	5.93	57%	0	0%	10.46	5.94	57%	0	0%	10.46	5.94	57%	0	0%
GNA_1024902_Capacity	Northern	North Valley	CHICO B BANK 2	1024902	Bank	None	None	None	None	CC	CC	CC	15.84	CC	CC	CC	CC	15.84	CC	CC	CC	CC	CC	15.84	CC	CC	CC	CC	CC	15.84	CC	CC	CC	CC			

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GNA Need ID	Distribution Planning Region	Division	Facility Information			Distribution Service			Peak Deficiency and Loading										2021										2022										2023										2024										2025									
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)																											
GNA_24011108_Capacity	Central Coast	Peninsula	BAY MEADOWS 1108	024011108	Feeder	None	None	None	58%	0.00	0%	10.28	5.94	58%	0	0%	10.28	5.99	58%	0	0%	10.28	5.95	58%	0	0%	10.28	5.94	58%	0	0%	10.28	5.94	58%	0	0%	10.28	5.93	58%	0	0%																											
GNA_240103_Capacity	Central Coast	Peninsula	BAY MEADOWS BANK 3	0240103	Bank	None	None	None	87%	0.00	0%	44.60	37.02	83%	0	0%	44.60	38.89	87%	0	0%	44.60	38.97	87%	0	0%	44.60	38.97	87%	0	0%	44.60	38.92	87%	0	0%	44.60	38.92	87%	0	0%																											
GNA_24011102_Capacity	Central Coast	Peninsula	BAY MEADOWS 1102	024011102	Feeder	None	None	None	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC																						
GNA_24011103_Capacity	Central Coast	Peninsula	BAY MEADOWS 1103	024011103	Feeder	None	None	None	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC																						
GNA_24011104_Capacity	Central Coast	Peninsula	BAY MEADOWS 1104	024011104	Feeder	None	None	None	101%	0.00	0%	9.99	8.16	82%	0	0%	9.99	9.94	99%	0	0%	9.99	10.05	101%	0.06	1%	10	100%	0.01	0%	9.99	9.94	99%	0	0%	9.99	9.94	99%	0	0%	9.99	9.94	99%	0	0%																							
GNA_24011105_Capacity	Central Coast	Peninsula	BAY MEADOWS 1105	024011105	Feeder	None	None	None	CC	CC	CC	11.65	CC	CC	CC	CC	11.65	CC	CC	CC	CC	11.65	CC	CC	CC	CC	11.65	CC	CC	CC	CC	11.65	CC	CC	CC	CC	11.65	CC	CC	CC	CC	11.65	CC	CC	CC	CC																						
GNA_24011106_Capacity	Central Coast	Peninsula	BAY MEADOWS 1106	024011106	Feeder	None	None	None	97%	0.00	0%	10.28	9.94	97%	0	0%	10.28	9.92	96%	0	0%	10.28	9.93	97%	0	0%	10.28	9.98	97%	0	0%	10.28	10.02	97%	0	0%	10.28	10.02	97%	0	0%	10.28	10.02	97%	0	0%																						
GNA_240301_Capacity	Central Coast	Peninsula	BELMONT BANK 1	0240301	Bank	None	None	None	85%	0.00	0%	44.60	38.01	85%	0	0%	44.60	37.74	85%	0	0%	44.60	36.01	81%	0	0%	44.60	36.03	81%	0	0%	44.60	35.98	81%	0	0%	44.60	35.98	81%	0	0%	44.60	35.98	81%	0	0%																						
GNA_240304_Capacity	Central Coast	Peninsula	BELMONT BANK 4	0240304	Bank	None	None	None	52%	0.00	0%	12.38	6.44	52%	0	0%	12.38	6.46	52%	0	0%	12.38	6.47	52%	0	0%	12.38	6.48	52%	0	0%	12.38	6.49	52%	0	0%	1																															

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Facility Information										Distribution Service				Peak Deficiency and Loading				2021				2022				2023				2024				2025			
GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	
GNA_241802_Capacity	Central Coast	Peninsula	SAN CARLOS BANK 2	0241802	Bank	None	None	None	98%	0.00	0%	15.80	15.47	98%	0	0%	15.80	15.32	97%	0	0%	15.80	15.21	96%	0	0%	15.80	15.13	96%	0	0%	15.80	15.05	95%	0	0%	
GNA_24181102_Capacity	Central Coast	Peninsula	SAN CARLOS 1102	024181102	Feeder	None	None	None	45%	0.00	0%	11.82	5.37	45%	0	0%	11.82	5.35	45%	0	0%	11.82	5.33	45%	0	0%	11.82	5.32	45%	0	0%	11.82	5.3	45%	0	0%	
GNA_24181104_Capacity	Central Coast	Peninsula	SAN CARLOS 1104	024181104	Feeder	None	None	None	69%	0.00	0%	12.19	8.46	69%	0	0%	12.19	8.47	69%	0	0%	12.19	8.47	69%	0	0%	12.19	8.47	69%	0	0%	12.19	8.47	69%	0	0%	
GNA_241803_Capacity	Central Coast	Peninsula	SAN CARLOS BANK 3	0241803	Bank	None	None	None	CC	CC	CC	12.40	CC	CC	CC	CC	12.40	CC	CC	CC	CC	12.40	CC	CC	CC	CC	12.40	CC	CC	CC	CC	12.40	CC	CC	CC	CC	
GNA_24181101_Capacity	Central Coast	Peninsula	SAN CARLOS 1101	024181101	Feeder	None	None	None	CC	CC	CC	10.18	CC	CC	CC	CC	10.18	CC	CC	CC	CC	10.18	CC	CC	CC	CC	10.18	CC	CC	CC	CC	10.18	CC	CC	CC	CC	
GNA_24181103_Capacity	Central Coast	Peninsula	SAN CARLOS 1103	024181103	Feeder	None	None	None	CC	CC	CC	11.97	CC	CC	CC	CC	11.97	CC	CC	CC	CC	11.97	CC	CC	CC	CC	11.97	CC	CC	CC	CC	11.97	CC	CC	CC	CC	
GNA_242501_Capacity	Central Coast	Peninsula	WOODSIDE BANK 1	0242501	Bank	None	None	None	62%	0.00	0%	29.69	18.2	61%	0	0%	29.69	18.24	61%	0	0%	29.69	18.28	62%	0	0%	29.69	18.32	62%	0	0%	29.69	18.34	62%	0	0%	
GNA_24251101_Capacity	Central Coast	Peninsula	WOODSIDE 1101	024251101	Feeder	None	None	None	68%	0.00	0%	11.65	7.81	67%	0	0%	11.65	7.83	67%	0	0%	11.65	7.86	67%	0	0%	11.65	7.88	68%	0	0%	11.65	7.89	68%	0	0%	
GNA_24251102_Capacity	Central Coast	Peninsula	WOODSIDE 1102	024251102	Feeder	None	None	None	70%	0.00	0%	12.83	8.94	70%	0	0%	12.83	8.96	70%	0	0%	12.83	8.97	70%	0	0%	12.83	8.99	70%	0	0%	12.83	9	70%	0	0%	
GNA_242502_Capacity	Central Coast	Peninsula	WOODSIDE BANK 2	0242502	Bank	None	None	None	63%	0.00	0%	29.70	18.77	63%	0	0%	29.70	18.77	63%	0	0%	29.70	18.77	63%	0	0%	29.70	18.78	63%	0	0%	29.70	18.77	6			

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GNA Need ID	Distribution Planning Region	Division	Facility Information				Distribution Service				Peak Deficiency and Loading				2021				2022				2023				2024				2025			
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)			
GNA_62031113_Capacity	Northern	Sacramento	WOODLAND 1113	062031113	Feeder	None	None	None	CC	CC	CC	14.86	CC	CC	CC	CC	14.86	CC	CC	CC	CC	CC	14.86	CC	CC	CC	CC	14.86	CC	CC	CC	CC		
GNA_620302_Capacity	Northern	Sacramento	WOODLAND BANK 2	0620302	Bank	None	Monitor	None	100%	0.00	0%	44.60	44.31	99%	0	0%	44.60	44.07	99%	0	0%	44.60	44.25	99%	0	0%	44.60	44.67	100%	0.07	0%			
GNA_62031104_Capacity	Northern	Sacramento	WOODLAND 1104	062031104	Feeder	None	None	None	70%	0.00	0%	10.76	7.52	70%	0	0%	10.76	7.43	69%	0	0%	10.76	7.34	68%	0	0%	10.76	7.26	67%	0	0%			
GNA_62031105_Capacity	Northern	Sacramento	WOODLAND 1105	062031105	Feeder	Demand Growth	Capacity	2024	104%	0.00	0%	12.19	11.65	96%	0	0%	12.19	11.64	95%	0	0%	12.19	12.05	99%	0	0%	12.19	12.44	102%	0.25	2%			
GNA_62031106_Capacity	Northern	Sacramento	WOODLAND 1106	062031106	Feeder	None	None	None	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC		
GNA_62031107_Capacity	Northern	Sacramento	WOODLAND 1107	062031107	Feeder	None	None	None	85%	0.00	0%	10.76	9.15	85%	0	0%	10.76	9.12	85%	0	0%	10.76	9.1	85%	0	0%	10.76	9.09	84%	0	0%			
GNA_62031108_Capacity	Northern	Sacramento	WOODLAND 1108	062031108	Feeder	None	None	None	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC		
GNA_620303_Capacity	Northern	Sacramento	WOODLAND BANK 3	0620303	Bank	None	None	None	CC	CC	CC	44.60	CC	CC	CC	CC	44.60	CC	CC	CC	CC	CC	44.60	CC	CC	CC	CC	44.60	CC	CC	CC	CC		
GNA_62031109_Capacity	Northern	Sacramento	WOODLAND 1109	062031109	Feeder	None	None	None	95%	0.00	0%	12.19	11.53	95%	0	0%	12.19	11.52	95%	0	0%	12.19	11.5	94%	0	0%	12.19	11.48	94%	0	0%			
GNA_62031110_Capacity	Northern	Sacramento	WOODLAND 1110	062031110	Feeder	None	None	None	90%	0.00	0%	10.76	9.69	90%	0	0%	10.76	9.66	90%	0	0%	10.76	9.62	89%	0	0%	10.76	9.6	89%	0	0%			
GNA_62031111_Capacity	Northern	Sacramento	WOODLAND 1111	062031111	Feeder	Demand Growth	Capacity	2021	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC	CC	12.19	CC	CC	CC	CC	12.19	CC	CC	CC	CC		
GNA_62031112_Capacity	Northern	Sacramento	WOODLAND 1112	062031112	Feeder	None	None	None	89%	0.00	0%	10.76	9.61	89%	0	0%	10.76	9.6	89%	0														

Facility Information				Distribution Service				Peak Deficiency and Loading				2021				2022				2023				2024				2025								
GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (MW) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)					
GNA_225301_Capacity	Bay Area	San Francisco	6TH AVENUE BANK 1	0225301	Bank	None	None	None	51%	0.00	0%	1.98	1.01	51%	0	0%	1.98	1.01	51%	0	0%	1.98	1.01	51%	0	0%	1.98	1.01	51%	0	0%					
GNA_22530401_Capacity	Bay Area	San Francisco	6TH AVENUE 0401	022530401	Feeder	None	None	None	46%	0.00	0%	2.18	1.01	46%	0	0%	2.18	1.01	46%	0	0%	2.18	1.01	46%	0	0%	2.18	1.01	46%	0	0%					
GNA_225303_Capacity	Bay Area	San Francisco	6TH AVENUE BANK 3	0225303	Bank	None	None	None	51%	0.00	0%	1.98	1	51%	0	0%	1.98	1.01	51%	0	0%	1.98	1.01	51%	0	0%	1.98	1.01	51%	0	0%					
GNA_22530403_Capacity	Bay Area	San Francisco	6TH AVENUE 0403	022530403	Feeder	None	None	None	46%	0.00	0%	2.18	1	46%	0	0%	2.18	1	46%	0	0%	2.18	1.01	46%	0	0%	2.18	1.01	46%	0	0%					
GNA_221001_Capacity	Bay Area	San Francisco	SF H BANK 1 (MARTIN)	0221001	Bank	Demand Growth	Capacity	2022	118%	0.00	0%	44.60	40.42	91%	0	0%	44.60	52.25	117%	7.65	17%	44.60	52.06	117%	7.46	17%	44.60	52.56	118%	7.96	18%	44.60	52.38	117%	7.78	17%
GNA_22101101_Capacity	Bay Area	San Francisco	MARTIN (SF H) 1101	022101101	Feeder	Demand Growth	Capacity	2022	CC	CC	CC	12.06	CC	CC	CC	CC	12.06	CC	CC	CC	CC	12.06	CC	CC	CC	CC	12.06	CC	CC	CC	CC	12.06	CC	CC	CC	CC
GNA_22101102_Capacity	Bay Area	San Francisco	MARTIN (SF H) 1102	022101102	Feeder	None	None	None	CC	CC	CC	7.70	CC	CC	CC	CC	7.70	CC	CC	CC	CC	7.70	CC	CC	CC	CC	7.70	CC	CC	CC	CC	7.70	CC	CC	CC	CC
GNA_22101103_Capacity	Bay Area	San Francisco	MARTIN (SF H) 1103	022101103	Feeder	None	None	None	84%	0.00	0%	10.22	8.61	84%	0	0%	10.22	8.58	84%	0	0%	10.22	8.56	84%	0	0%	10.22	8.55	84%	0	0%	10.22	8.52	83%	0	0%
GNA_22101104_Capacity	Bay Area	San Francisco	MARTIN (SF H) 1104	022101104	Feeder	None	None	None	CC	CC	CC	9.09	CC	CC	CC	CC	9.09	CC	CC	CC	CC	9.09	CC	CC	CC	CC	9.09	CC	CC	CC	CC	9.09	CC	CC	CC	CC
GNA_22101106_Capacity	Bay Area	San Francisco	MARTIN (SF H) 1106	022101106	Feeder	None	None	None	CC	CC	CC	12.62	CC	CC	CC	CC	12.62	CC	CC	CC	CC	12.62	CC	CC	CC	CC	12.62	CC	CC</							

Facility Information										Distribution Service				Peak Deficiency and Loading				2021				2022				2023				2024				2025			
GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	
GNA_22090402_Capacity	Bay Area	San Francisco	SF G 0402	022090402	Feeder	None	None	None	33%	0.00	0%	2.50	0.8	32%	0	0%	2.50	0.8	32%	0	0%	2.50	0.81	32%	0	0%	2.50	0.81	32%	0	0%	2.50	0.82	33%	0	0%	
GNA_22090404_Capacity	Bay Area	San Francisco	SF G 0404	022090404	Feeder	None	None	None	61%	0.00	0%	2.07	1.27	61%	0	0%	2.07	1.27	61%	0	0%	2.07	1.27	61%	0	0%	2.07	1.27	61%	0	0%	2.07	1.27	61%	0	0%	
GNA_22090406_Capacity	Bay Area	San Francisco	SF G 0406	022090406	Feeder	None	None	None	32%	0.00	0%	2.50	0.78	31%	0	0%	2.50	0.79	32%	0	0%	2.50	0.8	32%	0	0%	2.50	0.8	32%	0	0%	2.50	0.81	32%	0	0%	
GNA_22090408_Capacity	Bay Area	San Francisco	SF G 0408	022090408	Feeder	None	None	None	45%	0.00	0%	2.50	1.11	44%	0	0%	2.50	1.11	44%	0	0%	2.50	1.12	45%	0	0%	2.50	1.13	45%	0	0%	2.50	1.13	45%	0	0%	
GNA_22090410_Capacity	Bay Area	San Francisco	SF G 0410	022090410	Feeder	None	None	None	CC	CC	CC	2.50	CC	CC	CC	CC	2.50	CC	CC	CC	CC	2.50	CC	CC	CC	CC	2.50	CC	CC	CC	CC	2.50	CC	CC	CC	CC	
GNA_22090412_Capacity	Bay Area	San Francisco	SF G 0412	022090412	Feeder	None	None	None	38%	0.00	0%	2.57	0.98	38%	0	0%	2.57	0.98	38%	0	0%	2.57	0.98	38%	0	0%	2.57	0.98	38%	0	0%	2.57	0.98	38%	0	0%	
GNA_22090414_Capacity	Bay Area	San Francisco	SF G 0414	022090414	Feeder	None	None	None	CC	CC	CC	2.42	CC	CC	CC	CC	2.42	CC	CC	CC	CC	2.42	CC	CC	CC	CC	2.42	CC	CC	CC	CC	2.42	CC	CC	CC	CC	
GNA_22131101_Cap																																					

GNA Need ID	Distribution Planning Region	Division	Facility Information			Distribution Service			Peak Deficiency and Loading			2021					2022					2023					2024					2025					
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (MW) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)						
GNA_822603_Capacity	Central Coast	San Jose	SAN JOSE B BANK 3	0822603	Bank	None	None	None	None	80%	0.00	0%	44.60	29.84	67%	0	0%	44.60	30.25	68%	0	0%	44.60	34.19	77%	0	0%	44.60	35.04	79%	0	0%	44.60	35.78	80%	0	0%
GNA_82261109_Capacity	Central Coast	San Jose	SAN JOSE B 1109	082261109	Feeder	None	None	None	None	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC
GNA_82261110_Capacity	Central Coast	San Jose	SAN JOSE B 1110	082261110	Feeder	None	None	None	None	89%	0.00	0%	12.06	10.69	89%	0	0%	12.06	10.58	88%	0	0%	12.06	10.48	87%	0	0%	12.06	10.41	86%	0	0%	12.06	10.33	86%	0	0%
GNA_82261111_Capacity	Central Coast	San Jose	SAN JOSE B 1111	082261111	Feeder	None	None	None	None	78%	0.00	0%	11.05	7.58	69%	0	0%	11.05	7.62	69%	0	0%	11.05	7.88	71%	0	0%	11.05	8.22	74%	0	0%	11.05	8.59	78%	0	0%
GNA_82261112_Capacity	Central Coast	San Jose	SAN JOSE B 1112	082261112	Feeder	None	None	None	None	96%	0.00	0%	11.57	11.14	96%	0	0%	11.57	11.06	96%	0	0%	11.57	10.98	95%	0	0%	11.57	10.94	95%	0	0%	11.57	10.88	94%	0	0%
GNA_82261113_Capacity	Central Coast	San Jose	SAN JOSE B 1113	082261113	Feeder	None	None	None	None	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC	11.57	CC	CC	CC	CC
GNA_822604_Capacity	Central Coast	San Jose	SAN JOSE B BANK 4	0822604	Bank	None	None	None	None	CC	CC	CC	44.54	CC	CC	CC	CC	44.54	CC	CC	CC	CC	44.54	CC													

Facility Information							Distribution Service		Peak Deficiency and Loading				2021				2022				2023				2024				2025							
GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)
GNA_831803_Capacity	Central Coast	San Jose	LLAGAS BANK 3	0831803	Bank	Demand Growth	Capacity	2021	122%	3.99	8%	49.06	53.05	108%	3.99	8%	44.60	54.19	122%	9.59	22%	44.60	53.98	121%	9.38	21%	44.60	53.93	121%	9.33	21%	44.60	53.81	121%	9.21	21%
GNA_83182105_Capacity	Central Coast	San Jose	LLAGAS 2105	083182105	Feeder	None	None	None	99%	0.00	0%	21.11	20.64	98%	0	0%	21.11	20.86	99%	0	0%	21.11	20.76	98%	0	0%	21.11	20.7	98%	0	0%	21.11	20.63	98%	0	0%
GNA_83182106_Capacity	Central Coast	San Jose	LLAGAS 2106	083182106	Feeder	None	None	None	85%	0.00	0%	22.22	18.3	82%	0	0%	22.22	18.91	85%	0	0%	22.22	18.9	85%	0	0%	22.22	18.95	85%	0	0%	22.22	18.96	85%	0	0%
GNA_83182107_Capacity	Central Coast	San Jose	LLAGAS 2107	083182107	Feeder	None	None	None	92%	0.00	0%	21.11	19.12	91%	0	0%	21.11	19.41	92%	0	0%	21.11	19.27	91%	0	0%	21.11	19.2	91%	0	0%	21.11	19.11	91%	0	0%
GNA_832401_Capacity	Central Coast	San Jose	MORGAN HILL BANK 1	0832401	Bank	None	None	None	77%	0.00	0%	44.60	34.44	77%	0	0%	44.60	33.5	75%	0	0%	44.60	32.85	74%	0	0%	44.60	32.58	73%	0	0%	44.60	33.55	75%	0	0%
GNA_83242104_Capacity	Central Coast	San Jose	MORGAN HILL 2104	083242104	Feeder	None	None	None	87%	0.00	0%	21.74	18.68	86%	0	0%	21.74	18.19	84%	0	0%	21.74	17.83	82%	0	0%	21.74	17.71	81%	0	0%	21.74	18.84	87%	0	0%
GNA_83242105_Capacity	Central Coast	San Jose	MORGAN HILL 2105	083242105	Feeder	None	None	None	81%	0.00	0%	22.22	17.89	81%	0	0%	22.22	17.45	79%	0	0%	22.22	17.18	77%	0	0%	22.22	17.04	77%	0	0%	22.22	16.91	76%	0	0%
GNA_832402_Capacity	Central Coast	San Jose	MORGAN HILL BANK 2	0832402	Bank	None	None	None	94%	0.00	0%	29.70	27.02	91%	0	0%	29.70	28.01	94%	0	0%	29.70	27.85	94%	0	0%	29.70	27.89	94%	0	0%	29.70	27.79	94%	0	0%
GNA_83242106_Capacity	Central Coast	San Jose	MORGAN HILL 2106	083242106	Feeder	None	None	None	77%	0.00	0%	13.22	9.23	70%	0	0%	13.22	10.14	77%	0	0%	13.22														

Facility Information										Distribution Service		Peak Deficiency and Loading				2021				2022				2023				2024				2025						
GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)		
GNA_83431112_Capacity	Central Coast	San Jose	HICKS 1112	083431112	Feeder	None	None	None	CC	CC	CC	12.44	CC	CC	CC	CC	12.44	CC	CC	CC	CC	CC	12.44	CC	CC	CC	CC	CC	12.44	CC	CC	CC	CC	12.44	CC	CC	CC	CC
GNA_834303_Capacity	Central Coast	San Jose	HICKS BANK 3	0834303	Bank	None	None	None	90%	0.00	0%	44.60	40.21	90%	0	0%	44.60	39.84	89%	0	0%	44.60	39.55	89%	0	0%	44.60	39.43	88%	0	0%	44.60	39.22	88%	0	0%		
GNA_83431113_Capacity	Central Coast	San Jose	HICKS 1113	083431113	Feeder	None	None	None	94%	0.00	0%	12.06	11.32	94%	0	0%	12.06	11.19	93%	0	0%	12.06	11.09	92%	0	0%	12.06	11.04	92%	0	0%	12.06	10.96	91%	0	0%		
GNA_83431114_Capacity	Central Coast	San Jose	HICKS 1114	083431114	Feeder	None	None	None	87%	0.00	0%	12.06	10.44	87%	0	0%	12.06	10.34	86%	0	0%	12.06	10.27	85%	0	0%	12.06	10.23	85%	0	0%	12.06	10.17	84%	0	0%		
GNA_83431115_Capacity	Central Coast	San Jose	HICKS 1115	083431115	Feeder	None	None	None	95%	0.00	0%	12.06	11.36	94%	0	0%	12.06	11.37	94%	0	0%	12.06	11.39	94%	0	0%	12.06	11.42	95%	0	0%	12.06	11.44	95%	0	0%		
GNA_83431116_Capacity	Central Coast	San Jose	HICKS 1116	083431116	Feeder	None	None	None	98%	0.00	0%	12.44	12.18	98%	0	0%	12.44	12.04	97%	0	0%	12.44	11.93	96%	0	0%	12.44	11.87	95%	0	0%	12.44	11.78	95%	0	0%		
GNA_1521001_Capacity	Northern	Sierra	ALLEGHANY BANK 1	1521001	Bank	None	None	None	14%	0.00	0%	11.73	1.69	14%	0	0%	11.73	1.68	14%	0	0%	11.73	1.66	14%	0	0%	11.73	1.66	14%	0	0%	11.73	1.64	14%	0	0%		
GNA_15210101_Capacity	Northern	Sierra	ALLEGHANY 1101	15210101	Feeder	None	None	None	20%	0.00	0%	7.12	1.43	20%	0	0%	7.12	1.42	20%	0	0%	7.12	1.42	20%	0	0%	7.12	1.42	20%	0	0%	7.12	1.42	20%	0	0%		
GNA_15210102_Capacity	Northern	Sierra	ALLEGHANY 1102	15210102	Feeder	None	None	None	CC	CC	CC	4.49	CC	CC	CC	CC	4.49	CC	CC	CC	CC	CC	4.49	CC	CC	CC	CC	CC	4.49	CC	CC	CC	CC	4.49	CC	CC	CC	CC
GNA_1536601_Capacity	Northern	Sierra	APPLE HILL BANK 1	1536601	Bank	None	None	None	87%	0.00	0%	15.84	13.85	87%	0	0%	15.84	13.66	86%	0	0%	15.84	13.5	85%	0	0%	15.84	13.38	84%	0	0%	15.84	13.25	84%	0	0%		
GNA_1536602_Capacity	Northern	Sierra	APPLE HILL 2102	153662102	Feeder	None	None	None	81%	0.00	0%	16.44	13.31	81%	0	0%	16.44	13.12	80%	0	0%	16.44	12.96	79%	0	0%	16.44	12.84	78%	0	0%	16.44	12.71	77%	0	0%		
GNA_1536603_Capacity	Northern	Sierra	APPLE HILL BANK 2	1536602	Bank	None	None	None	61%	0.00	0%	15.84	9.73	61%	0	0%	15.84	9.49	60%	0	0%	15.84	9.49	60%	0	0%	15.84	9.46	60%	0	0%	15.84	9.43	60%	0	0%		
GNA_15366103_Capacity	Northern	Sierra	APPLE HILL 1103	15366103																																		

GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Distribution Service			Peak Deficiency and Loading			2021			2022			2023			2024			2025							
						Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Capacity (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)
GNA_1525901_Capacity	Northern	Sierra	SUMMIT BANK 1	1525901	Bank	None	None	None	23%	0.00	0%	8.44	1.94	23%	0	0%	8.44	1.92	23%	0	0%	8.44	1.89	22%	0	0%	8.44	1.84	22%	0	0%
GNA_152591101_Capacity	Northern	Sierra	SUMMIT 1101	152591101	Feeder	None	None	None	21%	0.00	0%	7.12	1.48	21%	0	0%	7.12	1.48	21%	0	0%	7.12	1.48	21%	0	0%	7.12	1.49	21%	0	0%
GNA_152591102_Capacity	Northern	Sierra	SUMMIT 1102	152591102	Feeder	None	None	None	19%	0.00	0%	3.55	0.68	19%	0	0%	3.55	0.67	19%	0	0%	3.55	0.66	19%	0	0%	3.55	0.65	18%	0	0%
GNA_1522901_Capacity	Northern	Sierra	TAMARACK BANK 1	1522901	Feeder	None	None	None	CC	CC	CC	9.77	CC	CC	CC	CC	9.77	CC	CC	CC	CC	9.77	CC	CC	CC	CC	9.77	CC	CC	CC	CC
GNA_152291101_Capacity	Northern	Sierra	TAMARACK 1101	152291101	Feeder	None	None	None	CC	CC	CC	3.36	CC	CC	CC	CC	3.36	CC	CC	CC	CC	3.36	CC	CC	CC	CC	3.36	CC	CC	CC	CC
GNA_152291102_Capacity	Northern	Sierra	TAMARACK 1102	152291102	Feeder	None	None	None	5%	0.00	0%	3.36	0.18	5%	0	0%	3.36	0.18	5%	0	0%	3.36	0.18	5%	0	0%	3.36	0.18	5%	0	0%
GNA_1521801_Capacity	Northern	Sierra	FOREST HILL BANK 1	1521801	Bank	None	None	None	46%	0.00	0%	19.73	9.17	46%	0	0%	19.73	9.09	46%	0	0%	19.73	9.01	46%	0	0%	19.73	8.95	45%	0	0%
GNA_152181101_Capacity	Northern	Sierra	FORESTHILL 1101	152181101	Feeder	None	None	None	74%	0.00	0%	10.69	7.88	74%	0	0%	10.69	7.81	73%	0	0%	10.69	7.75	72%	0	0%	10.69	7.71	72%	0	0%
GNA_152181102_Capacity	Northern	Sierra	FORESTHILL 1102	152181102	Feeder	None	None	None	52%	0.00	0%	3.19	1.66	52%	0	0%	3.19	1.64	51%	0	0%	3.19	1.62	51%	0	0%	3.19	1.61	50%	0	0%
GNA_1525701_Capacity	Northern	Sierra	HORSESHOE BANK 1	1525701	Bank	None	None	None	57%	0.00	0%	44.55	24.67	55%	0	0%	44.55	24.85	56%	0	0%	44.55	25.03	56%	0	0%	44.55	25.23	57%	0	0%
GNA_152571101_Capacity	Northern	Sierra	HORSESHOE 1101	152571101	Feeder	None	None	None	70%	0.00	0%	12.19	8.24	68%	0	0%	12.19	8.31	68%	0	0%	12.19	8.37	69%	0	0%	12.19	8.44	69%	0	0%
GNA_152571102_Capacity	Northern	Sierra	HORSESHOE 1102	152571102	Feeder	None	None	None	72%	0.00	0%	12.19	8.52	70%	0	0%	12.19	8.58	70%	0	0%	12.19	8.64	71%	0	0%	12.19	8.71	71%	0	0%
GNA_152571103_Capacity	Northern	Sierra	HORSESHOE 1103	152571103	Feeder	None	None	None	73%	0.00	0%	12.36	8.91	72%	0	0%	12.36	8.93	72%	0	0%	12.36	8.95	72%	0	0%	12.36	8.98	73%	0	0%
GNA_1525702_Capacity	Northern	Sierra	HORSESHOE BANK 2	1525702	Bank	None	None	None	60%	0.00	0%	44.55	26.86	60%	0	0%	44.55	26.8	60%	0	0%	44.55	26.73	60%	0	0%	44.55	26.7	60%	0	0%
GNA_152571104_Capacity	Northern	Sierra	HORSESHOE 1104	152571104	Feeder	None	None	None	64%	0.00	0%	12.19	7.75	64%	0	0%	12.19	7.72	63%	0	0%	12.19	7.68	63%	0	0%	12.19	7.66	63%	0	0%
GNA_152571105_Capacity	Northern	Sierra	HORSESHOE 1105	152571105	Feeder	None	None	None	81%	0.00	0%	12.19	9.85	81%	0	0%	12.19	9.81	80%	0	0%	12.19	9.76	80%	0	0%	12.19	9.73	80%	0	0%
GNA_152571106_Capacity	Northern	Sierra	HORSESHOE 1106	152571106	Feeder	None	None	None	82%	0.00	0%	12.36	10	81%	0	0%	12.36	10.01	81%	0	0%	12.36	10.06	81%	0	0%	12.36	10.13	82%	0	0%
GNA_1537001_Capacity	Northern	Sierra	LINCOLN BANK 1	1537001	Bank	None	None	None	80%	0.00	0%	29.70	23.9	80%	0	0%	29.70	23.64	80%	0	0%	29.70	23.6	79%	0	0%	29.70	23.57	79%	0	0%
GNA_153701101_Capacity	Northern	Sierra	LINCOLN 1101	153701101	Feeder	None	None	None	73%	0.00	0%	15.12	10.71	71%	0	0%	15.12	10.73	71%	0	0%	15.12	10.88	72%	0	0%	15.12	10.97	73%	0	0%
GNA_153701102_Capacity	Northern	Sierra	LINCOLN 1102	153701102	Feeder	None	None	None	84%	0.00	0%	15.12	12.69	84%	0	0%	15.12	12.52	83%	0	0%	15.12	12.41	82%	0	0%	15.12	12.37	82%	0	0%
GNA_1537021_Capacity	Northern	Sierra	LINCOLN BANK 2	1537002	Bank	None	None	None	54%	0.00	0%	44.55	24.03	54%	0	0%	44.55	23.75	53%	0	0%	44.55	23.59	53%	0	0%	44.55	23.75	53%	0	0%
GNA_153702108_Capacity	Northern	Sierra	LINCOLN 2108	153702108	Feeder	None	None	None	85%	0.00	0%	10.67	8.8	82%	0	0%	10.67	8.83	83%	0	0%	10.67	8.9	83%	0	0%	10.67	9.03	85%	0	0%
GNA_153702109_Capacity	Northern	Sierra	LINCOLN 2109	153702109	Feeder	None	None	None	65%	0.00	0%	22.22	14.39	65%	0	0%	22.22	14.22	64%	0	0%	22.22	14.18	64%	0	0%	22.22	14.24	64%	0	0%
GNA_1537003_Capacity	Northern	Sierra	LINCOLN BANK 3	1537003	Bank	None	None	None	97%	0.00	0%	15.84	15.06	95%	0	0%	15.84	15.15	96%	0	0%	15.84	15.23	96%	0	0%	15.84	15.33	97%	0	0%
GNA_153701104_Capacity	Northern	Sierra	LINCOLN 1104	153701104	Feeder	None	None	None	81%	0.00	0%	8.13	6.36	78%	0	0%	8.13	6.41	79%	0	0%	8.13	6.45	79%	0	0%	8.13	6.51	80%	0	0%
GNA_153701105_Capacity	Northern	Sierra	LINCOLN 1105	153701105	Feeder	None	None	None	66%	0.00	0%	15.12	9.82	65%	0	0%	15.12	9.86	65%	0	0%	15.12	9.9	65%	0	0%	15.12	9.95	66%	0	0%
GNA_1523302_Capacity	Northern	Sierra	EAST MARYSVILLE BANK 2	1523302	Bank	None	None	None	97%	0.00	0%	12.31	11.78	96%	0	0%	12.31	11.81	96%	0	0%	12.31	11.84	96%	0	0%	12.31	11.88	97%	0	0%
GNA_152331105_Capacity	Northern	Sierra	EAST MARYSVILLE 1105	152331105	Feeder	None	None	None	92%	0.00	0%	12.19	11.1	91%	0	0%	12.19	11.13	91%	0	0%	12.19	11.16	92%	0	0%	12.19	11.21	92%	0	0%
GNA_1523303_Capacity	Northern	Sierra	EAST MARYSVILLE BANK 3	1523303	Bank	None	None	None	98%	0.00	0%	12.38	12.1	98%	0	0%	12.38	12.06	97%	0	0%	12.38	12.01	97%	0	0%	12.38	12	97%	0	0%
GNA_152331107_Capacity	Northern	Sierra	EAST MARYSVILLE 1107	152331107	Feeder	None	None	None	60%	0.00	0%	11.33	6.78	60%	0	0%	11.33	6.71	59%	0	0%	11.33	6.64	59%	0	0%	11.33	6.63	59%	0	0%
GNA_152331108_Capacity	Northern	Sierra	EAST MARYSVILLE 1108	152331108	Feeder	None	None	None	CC	CC	CC	11.33	CC	CC	CC	CC	11.33	CC	CC	CC	CC	11.33	CC	CC	CC	CC	11.33	CC	CC	CC	CC
GNA_1520101_Capacity	Northern	Sierra	MARYSVILLE BANK 1	1520101	Bank	None	None	None	72%	0.00	0%	29.70	21.28	72%	0	0%	29.70	21.26	72%	0	0%	29.70	21.25	72%	0	0%	29.70	21.28	72%	0	0%
GNA_152011106_Capacity	Northern	Sierra	MARYSVILLE 1106	152011106	Feeder	None	None	None	CC	CC	CC	12.36	CC	CC	CC	CC	12.36	CC	CC	CC	CC	12.36	CC	CC	CC	CC	12.36	CC	CC	CC	CC
GNA_152011107_Capacity	Northern	Sierra	MARYSVILLE 1107	152011107	Feeder	None	None	None	66%	0.00	0%	10.46	6.87	66%	0	0%	10.46	6.69	64%	0	0%	10.46	6.5	62%	0	0%	10.46	6.34	61%	0	0%
GNA_152011108_Capacity	Northern	Sierra	MARYSVILLE 1108	152011108	Feeder	None	None	None	85%	0.00	0%	13.60	11.43	84%	0	0%	13.60	11.46	84%	0	0%	13.60	11.51	85%	0	0%	13.60	11.57	85%	0	0%
GNA_1520103_Capacity	Northern	Sierra	MARYSVILLE BANK 3	1520103	Bank	None	None	None	87%	0.00	0%	17.63	14.68	83%	0	0%	17.63	14.84	84%	0	0%	17.63	15	85%	0	0%	17.63	15.18	86%	0	0%
GNA_152011102_Capacity	Northern	Sierra	MARYSVILLE 1102	152011102	Feeder	None	None	None	30%	0.00	0%	13.68	4.01	29%	0	0%	13.68	4.01	29%	0	0%	13.68	4.02	29%	0	0%	13.68	4.03	29%	0	0%
GNA_152011103_Capacity	Northern	Sierra	MARYSVILLE 1103	152011103	Feeder	None	None	None	CC	CC	CC	6.61	CC	CC	CC	CC	6.61	CC	CC	CC	CC	6.61	CC	CC	CC	CC	6.61	CC	CC	CC	CC
GNA_152011104_Capacity	Northern	Sierra	MARYSVILLE 1104	152011104	Feeder	None	None	None	29%	0.00	0%	8.13	2.28	28%	0	0%	8.13	2.31	28%	0	0%	8.13	2.33	29%	0	0%	8.13	2.36	29%	0	0%
GNA_152011105_Capacity	Northern	Sierra	MARYSVILLE 1105	152011105	Feeder	None	None	None	61%	0.00	0%	9.58	5.58	58%	0	0%	9.58	5.63	59%	0	0%	9.58	5.69	59%	0	0%	9.58	5.75	60%	0	0%
GNA_1529001_Capacity	Northern	Sierra	OLIVEHURST BANK 1	1529001	Bank	None	None	None	38%	0.00	0%	29.70	10.93	37%	0	0%	29.70	10.96	37%	0	0%	29.70	11.06	37%	0	0%	29.70	11.15	38%	0	0%
GNA_152901101_Capacity	Northern	Sierra	OLIVEHURST 1101	152901101	Feeder	None	None	None	70%	0.00	0%	9.41	6.26	67%	0	0%	9.41	6.3	67%	0	0%	9.41	6.41	68%	0	0%	9.41	6.51	69%	0	0%
GNA_152901102_Capacity	Northern	Sierra	OLIVEHURST 1102	152901102	Feeder	None	None	None	40%	0.00	0%	10.69	4.25	40%	0	0%	10.69	4.24	40%	0	0%	10.69	4.23	40%	0	0%	10.69	4.22	39%	0	0%
GNA_1529002_Capacity	Northern	Sierra	OLIVEHURST BANK 2	1529002	Bank	None	None	None	82%	0.00	0%	29.70	24.29	82%	0	0%	29.70	24.01	81%	0	0%	29.70	24.08	81%	0	0%	29.70	24.33	82%	0	0%
GNA_152901103_Capacity	Northern	Sierra	OLIVEHURST 1103	152901103	Feeder	Demand Growth	Capacity	2021	109%	0.64	5%	12.36	13.14	106%	0.78	6%	12.36	13	105%	0.64	5%										

Facility Information										Distribution Service		Peak Deficiency and Loading				2021				2022				2023				2024				2025				
GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)
GNA_1524403_Capacity	Northern	Sierra	PLEASANT GROVE BANK 3	1524403	Bank	None	None	None	73%	0.00	0%	44.60	29.96	67%	0	0%	44.60	32.26	72%	0	0%	44.60	32.3	72%	0	0%	44.60	32.56	73%	0	0%	44.60	31.64	71%	0	0%
GNA_152442109_Capacity	Northern	Sierra	PLEASANT GROVE 2109	152442109	Feeder	Demand Growth	Capacity	2022	110%	0.00	0%	18.63	17.86	96%	0	0%	18.63	20.21	108%	1.58	8%	18.63	20.25	109%	1.62	9%	18.63	20.48	110%	1.85	10%	18.63	19.52	105%	0.89	5%
GNA_152442110_Capacity	Northern	Sierra	PLEASANT GROVE 1100	152442110	Feeder	None	None	None	CC	CC	CC	34.41	CC	CC	CC	CC	34.41	CC	CC	CC	CC	34.41	CC	CC	CC	34.41	CC	CC	34.41	CC	CC	34.41	CC	CC	CC	CC
GNA_1520601_Capacity	Northern	Sierra	ROCKLIN BANK 1	1520601	Bank	None	None	None	97%	0.00	0%	15.84	15.42	97%	0	0%	15.84	14.08	89%	0	0%	15.84	14.1	89%	0	0%	15.84	14.15	89%	0	0%	15.84	14.17	89%	0	0%
GNA_152061101_Capacity	Northern	Sierra	ROCKLIN 1101	152061101	Feeder	None	None	None	67%	0.00	0%	10.76	7.2	67%	0	0%	10.76	5.82	54%	0	0%	10.76	5.82	54%	0	0%	10.76	5.81	54%	0	0%	10.76	5.81	54%	0	0%
GNA_152061102_Capacity	Northern	Sierra	ROCKLIN 1102	152061102	Feeder	None	None	None	73%	0.00	0%	12.10	8.8	73%	0	0%	12.10	8.78	73%	0	0%	12.10	8.81	73%	0	0%	12.10	8.86	73%	0	0%	12.10	8.89	73%	0	0%
GNA_1520602_Capacity	Northern	Sierra	ROCKLIN BANK 2	1520602	Bank	None	None	None	102%	0.00	0%	9.88	10.09	102%	0.21	2%	9.88	10.02	101%	0.14	1%	9.88	9.77	99%	0	0%	9.88	9.76	99%	0	0%	9.88	9.73	98%	0	0%
GNA_152061103_Capacity	Northern	Sierra	ROCKLIN 1103	152061103	Feeder	None	None	None	60%	0.00	0%	10.76	6.46	60%	0	0%	10.76	6.37	59%	0	0%	10.76	6.28	58%	0	0%	10.76	6.21	58%	0	0%	10.76	6.19	58%	0	0%
GNA_152061104_Capacity	Northern	Sierra	ROCKLIN 1104	152061104	Feeder	None	None	None	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC	10.76	CC	CC	CC	CC
GNA_1521101_Capacity	Northern	Sierra	BARRY BANK 1	1521101	Bank	None	None	None	97%	0.00	0%	4.95	4.78	97%	0	0%	4.95	4.77	96%	0	0%	4.95	4.76	96%	0	0%	4.95	4.75	96%	0	0%	4.95	4.74	96%	0	0%
GNA_15211101_Capacity	Northern	Sierra	BARRY 1101	15211101	Feeder	None	None	None	19%	0.00	0%	6.41	1.23	19%	0	0%	6.41	1.23	19%	0	0%	6.41	1.22	19%	0	0%	6.41	1.22	19%	0	0%	6.41	1.22	19%	0	0%
GNA_15211102_Capacity	Northern	Sierra	BARRY 1102	15211102	Feeder	None	None	None	31%	0.00	0%	4.94	1.55	31%	0	0%	4.94	1.54	31%	0	0%	4.94	1.54	31%	0	0%	4.94	1.54	31%	0	0%	4.94	1.54	31%	0	0%
GNA_15211103_Capacity	Northern	Sierra	BARRY 1103	15211103	Feeder	None</																														

GNA Need ID	Distribution Planning Region	Facility Information				Distribution Service				Peak Deficiency and Loading			2021			2022			2023			2024			2025											
		Division	Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date		Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)				
GNA_42631108_Capacity	Northern	Sonoma	PETALUMA C 1108	042631108	Feeder	None	None	None		88%	0.00	0%	12.10	10.6	88%	0	0%	12.10	10.59	88%	0	0%	12.10	10.58	87%	0	0%	12.10	10.59	88%	0	0%				
GNA_42631105_Capacity	Northern	Sonoma	PETALUMA C 1105	042631105	Feeder	None	None	None		63%	0.00	0%	10.69	6.74	63%	0	0%	10.69	6.68	62%	0	0%	10.69	6.63	62%	0	0%	10.69	6.6	62%	0	0%				
GNA_42631106_Capacity	Northern	Sonoma	PETALUMA C 1106	042631106	Feeder	None	None	None		85%	0.00	0%	10.69	9.1	85%	0	0%	10.69	8.97	84%	0	0%	10.69	8.87	83%	0	0%	10.69	8.81	82%	0	0%				
GNA_426304_Capacity	Northern	Sonoma	PETALUMA C BANK 4	0426304	Bank	None	None	None		56%	0.00	0%	15.80	8.89	56%	0	0%	15.80	8.85	56%	0	0%	15.80	8.85	56%	0	0%	15.80	8.87	56%	0	0%				
GNA_42631109_Capacity	Northern	Sonoma	PETALUMA C 1109	042631109	Feeder	None	None	None		73%	0.00	0%	11.33	8.25	73%	0	0%	11.33	8.21	72%	0	0%	11.33	8.22	73%	0	0%	11.33	8.25	73%	0	0%				
GNA_42631110_Capacity	Northern	Sonoma	PETALUMA C 1110	042631110	Feeder	None	None	None	CC	CC	CC	CC	6.61	CC	CC	CC	CC	6.61	CC	CC	CC	CC	CC	6.61	CC	CC	CC	CC	6.61	CC	CC	CC	CC			
GNA_421201_Capacity	Northern	Sonoma	PETALUMA A BANK 1	0421201	Bank	None	None	None		78%	0.00	0%	2.85	2.22	78%	0	0%	2.85	2.21	78%	0	0%	2.85	2.2	77%	0	0%	2.85	2.19	77%	0	0%				
GNA_42120411_Capacity	Northern	Sonoma	PETALUMA A 0411	042120411	Feeder	None	None	None	CC	CC	CC	CC	2.71	CC	CC	CC	CC	2.71	CC	CC	CC	CC	CC	2.71	CC	CC	CC	CC	2.71	CC	CC	CC	CC			
GNA_42120413_Capacity	Northern	Sonoma	PETALUMA A 0413	042120413	Feeder	None	None	None		39%	0.00	0%	2.85	1.12	39%	0	0%	2.85	1.12	39%	0	0%	2.85	1.11	39%	0	0%	2.85	1.1	39%	0	0%				
GNA_433001_Capacity	Northern	Sonoma	MONROE BANK 1	0433001	Bank	None	None	None		47%	0.00	0%	44.55	17	38%	0	0%	44.55	17.64	40%	0	0%	44.55	20.83	47%	0	0%	44.55	20.88	47%	0	0%				
GNA_43302102_Capacity	Northern	Sonoma	MONROE 2102	043302102	Feeder	None	None	None		45%	0.00	0%	18.26	6.91	38%	0	0%	18.26	7.41	41%	0	0%	18.26	7.97	44%	0	0%	18.26	8.12	44%	0	0%				
GNA_43302103_Capacity	Northern	Sonoma	MONROE 2103	043302103	Feeder	None	None	None		75%	0.00	0%	19.63	11.86	60%	0	0%	19.63	12.19	62%	0	0%	19.63	14.77	75%	0	0%	19.63	14.69	75%	0	0%				
GNA_433002_Capacity	Northern	Sonoma	MONROE BANK 2	0433002	Bank	None	None	None		76%	0.00	0%	41.22	31.38	76%	0	0%	41.22	31.36	76%	0	0%	41.22	31.43	76%	0	0%	41.22	31.43	76%	0	0%				
GNA_43301104_Capacity	Northern	Sonoma	MONROE 1104	043301104	Feeder	None	None	None		86%	0.00	0%	10.76	9.23	86%	0	0%	10.76	9.19	85%	0	0%	10.76	9.15	85%	0	0%	10.76	9.13	85%	0	0%				
GNA_43301105_Capacity	Northern	Sonoma	MONROE 1105	043301105	Feeder	None	None	None		96%	0.00	0%	12.83	12.25	95%	0	0%	12.83	12.27	96%	0	0%	12.83	12.19	95%	0	0%	12.83	12.18	95%	0	0%				
GNA_43301106_Capacity	Northern	Sonoma	MONROE 1106	043301106	Feeder	None	None	None		90%	0.00	0%	12.19	10.6	87%	0	0%	12.19	10.6	87%	0	0%	12.19	10.71	88%	0	0%	12.19	10.83	89%	0	0%				
GNA_433003_Capacity	Northern	Sonoma	MONROE BANK 3	0433003	Bank	None	None	None	CC	CC	CC	CC	44.55	CC	CC	CC	CC	44.55	CC	CC	CC	CC	CC	44.55	CC	CC	CC	CC	44.55	CC	CC	CC	CC			
GNA_43302107_Capacity	Northern	Sonoma	MONROE 2107	043302107	Feeder	None	None	None	CC	CC	CC	CC	18.63	CC	CC	CC	CC	18.63	CC	CC	CC	CC	CC	18.63	CC	CC	CC	CC	18.63	CC	CC	CC	CC			
GNA_433201_Capacity	Northern	Sonoma	RINCON BANK 1 (TCAP'd)	0433201	Bank	Demand Growth	Capacity	2021	139%	2.44	12%	19.80	22.24	112%	2.44	12%	15.84	22.02	139%	6.18	39%	15.84	21.87	138%	6.03	38%	15.84	21.79	138%	5.95	38%	15.84	21.71	137%	5.87	37%
GNA_43321101_Capacity	Northern	Sonoma	RINCON 1101	043321101	Feeder	None	None	None		91%	0.00	0%	11.33	10.33	91%	0	0%	11.33	10.19	90%	0	0%	11.33	10.1	89%	0	0%	11.33	10.05	89%	0	0%				
GNA_43321102_Capacity	Northern	Sonoma	RINCON 1102	043321102	Feeder	None	None	None		85%	0.00	0%	11.42	9.69	85%	0	0%	11.42	9.63	84%	0	0%	11.42	9.57	84%	0	0%	11.42	9.53	83%	0	0%				
GNA_433202_Capacity	Northern	Sonoma	RINCON BANK 2	0433202	Bank	Demand Growth	Capacity	2021	137%	5.62	36%	15.80	21.48	136%	5.68	36%	15.80	21.42	136%	5.62	36%	15.80	21.51	136%	5.71	36%	15.80	21.6	137%	5.8	37%	15.80	21.67	137%	5.87	37%
GNA_43321103_Capacity	Northern	Sonoma	RINCON 1103	043321103	Feeder	None	None	None		82%	0.00	0%	11.33	9.01	80%	0	0%	11.33	9.06	80%	0	0%	11.33	9.14	81%	0	0%	11.33	9.21	81%	0	0%				
GNA_43321104_Capacity	Northern	Sonoma	RINCON 1104	043321104	Feeder	None	None	None		96%	0.00	0%	12.19	11.72	96%	0	0%	12.19	11.65	96%	0	0%	12.19	11.58	95%	0	0%	12.19	11.54	95%	0	0%				
GNA_421501_Capacity	Northern	Sonoma	SANTA ROSA A BANK 1	0421501	Bank	Demand Growth	Capacity	2021	122%	1.95	5%	43.21	45.16	105%	1.95	5%	43.21	46.77	108%	3.56	8%	43.21	46.78	108%	3.57	8%	43.21	47.07	109%	3.86	9%	43.21	52.65	122%	9.44	22%
GNA_42151101_Capacity	Northern	Sonoma	SANTA ROSA A 1101	042151101	Feeder	None	None	None		73%	0.00	0%	10.76	7.87	73%	0	0%	10.76	7.83	73%	0	0%	10.76	7.79	72%	0	0%	10.76	7.77	72%	0	0%				
GNA_42151102_Capacity	Northern	Sonoma	SANTA ROSA A 1102	042151102	Feeder	Demand Growth	Capacity	2021	201%	4.89	55%	8.87	13.76	155%	4.89	55%	8.87	14.48	163%	5.61	63%	8.87	14.59	164%	5.72	64%	8.87	14.94	168%	6.07	68%	8.87	17.81	201%	8.94	101%
GNA_42151103_Capacity	Northern	Sonoma	SANTA ROSA A 1103	042151103	Feeder	Demand Growth	Capacity	2021	138%	1.23	10%	12.19	13.42	110%	1.23	10%	12.19	14.26	116%	2	16%	12.19	14.26	117%	2.07	17%	12.19	14.38	118%	2.19	18%	12.19	16.78	138%	4.59	38%
GNA_42151104_Capacity	Northern	Sonoma	SANTA ROSA A 1104	042151104	Feeder	None	None	None		86%	0.00	0%	10.76	9.28	86%	0	0%	10.76	9.16	85%	0	0%	10.76	9.08	84%	0	0%	10.76	9.04	84%	0	0%				
GNA_421502_Capacity	Northern	Sonoma	SANTA ROSA A BANK 2	0421502	Bank	None	None	None		89%	0.00	0%	43.21	33.15	77%	0	0%	43.21	37.18	86%	0	0%	43.21	37.09	86%	0	0%	43.21	38.27	89%	0	0%				
GNA_42151105_Capacity	Northern	Sonoma	SANTA ROSA A 1105	042151105	Feeder	Demand Growth	Capacity	2022	CC	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC	CC	10.28	CC	CC	CC	CC	10.28	CC	CC	CC	CC			
GNA_42151106_Capacity	Northern	Sonoma	SANTA ROSA A 1106	042151106	Feeder	None	None	None		89%	0.00	0%	9.45	8.37	89%	0	0%	9.45	8.28	88%	0	0%	9.45	8.21	87%	0	0%	9.45	8.17	86%	0	0%				
GNA_42151107_Capacity	Northern	Sonoma	SANTA ROSA A 1107	042151107	Feeder	None	None	None		66%	0.00	0%	8.87	5.88	66%	0	0%	8.87	5.84	66%	0	0%	8.87	5.82	66%	0	0%	8.87	5.8	65%	0	0%				
GNA_42151108_Capacity	Northern	Sonoma	SANTA ROSA A 1108	042151108	Feeder	Demand Growth	Capacity	2022	118%	0.00	0%	10.95	10.77	98%	0	0%	10.95	11.45	105%	0.5	5%	10.95	11.56	106%	0.61	6%	10.95	12.87	118%	1.92	18%	10.95	12.94	118%	1.99	18%
GNA_421503_Capacity	Northern	Sonoma	SANTA ROSA A BANK 3	0421503	Bank	None	None	None		73%	0.00	0%	44.55	32.4	73%	0	0%	44.55	32.07	72%	0	0%	44.55	31.88	72%	0	0%	44.55	31.81	71%	0	0%				
GNA_42151109_Capacity	Northern	Sonoma	SANTA ROSA A 1109	042151109	Feeder	None	None	None	CC	CC	CC	CC	8.87	CC	CC	CC	CC	8.87	CC	CC	CC	CC	CC	8.87	CC	CC	CC	CC	8.87	CC	CC	CC	CC			
GNA_42151110_Capacity	Northern	Sonoma	SANTA ROSA A 1110	042151110	Feeder	Demand Growth	Capacity	2021	112%	1.03	12%	8.87	9.94	112%	1.07	12%	8.87	9.9	112%	1.03	12%	8.87	9.93	112%	1.06	12%	8.87	9.96	112%	1.09	12%	8.87	9.97	112%	1.1	12%
GNA_42151111_Capacity	Northern	Sonoma	SANTA ROSA A 1111	042151111	Feeder	Demand Growth	Capacity	2021	122%	1.70	19%	8.87	10.57	119%	1.7	19%	8.87	10.62	120%	1.75	20%	8.87	10.69	121%	1.82	21%	8.87	10.75	121%	1.88	21%	8.87	10.8	122%	1.93	22%
GNA_42151112_Capacity	Northern	Sonoma	SANTA ROSA A 1112	042151112	Feeder	None	None	None		73%	0.00	0%	10.78	7.91	73%	0	0%	10.78	7.84	73%	0	0%	10.78	7.79	72%	0	0%	10.78	7.76	72%	0	0%				
GNA_420901_Capacity	Northern	Sonoma	MIRABEL BANK 1	0420901	Bank	None	None	None		98%	0.00	0%	10.40	10.17	98%	0	0%	10.40	10.13	97%	0	0%	10.40	10.15	98%	0	0%	10.40	10.19	98%	0	0%				
GNA_42091101_Capacity	Northern	Sonoma	MIRABEL 1101	042091101	Feeder	None	None	None	CC	CC	CC	CC	10.39	CC	CC	CC	CC	10.39	CC	CC	CC	CC	CC	10.39	CC	CC	CC	CC	10.39	CC	CC	CC	CC			
GNA_42091102_Capacity	Northern	Sonoma	MIRABEL 1102	042091102	Feeder	None	None	None		63%	0.00	0%	10.39	6.46	62%	0	0%	10.39	6.48	62%	0	0%	10.39	6.49	62%	0	0%	10.39								

GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Distribution Service			Peak Deficiency and Loading			2021					2022					2023					2024					2025				
						Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)
GNA_1637502_Capacity	Central Valley	Stockton	PINE GROVE BANK 2	1637502	Bank	None	None	None	93%	0.00	0%	12.36	11.44	93%	0	0%	12.36	11.25	91%	0	0%	12.36	11.08	90%	0	0%	12.36	10.96	89%	0	0%	12.36	10.82	88%	0	0%
GNA_163751102_Capacity	Central Valley	Stockton	PINE GROVE 1102	163751102	Feeder	None	None	None	89%	0.00	0%	13.19	11.78	89%	0	0%	13.19	11.59	88%	0	0%	13.19	11.43	87%	0	0%	13.19	11.31	86%	0	0%	13.19	11.17	85%	0	0%
GNA_1623003_Capacity	Central Valley	Stockton	VALLEY SPRINGS NEW BANK 3 (2020)	1623003	Bank	None	None	None	17%	0.00	0%	29.70	5.17	17%	0	0%	29.70	5.17	17%	0	0%	29.70	5.17	17%	0	0%	29.70	5.17	17%	0	0%	29.70	5.17	17%	0	0%
GNA_162301101_Capacity	Central Valley	Stockton	VALLEY SPRINGS NEW 1101 (2020)	162301101	Bank	None	None	None	40%	0.00	0%	12.83	5.17	40%	0	0%	12.83	5.17	40%	0	0%	12.83	5.17	40%	0	0%	12.83	5.17	40%	0	0%	12.83	5.17	40%	0	0%
GNA_1632002_Capacity	Central Valley	Stockton	WEST POINT BANK 2	1632002	Bank	None	None	None	77%	0.00	0%	4.70	3.63	77%	0	0%	4.70	3.61	77%	0	0%	4.70	3.58	76%	0	0%	4.70	3.57	76%	0	0%	4.70	3.55	76%	0	0%
GNA_163201101_Capacity	Central Valley	Stockton	WEST POINT 1101	163201101	Feeder	None	None	None	65%	0.00	0%	5.73	3.74	65%	0	0%	5.73	3.71	65%	0	0%	5.73	3.69	64%	0	0%	5.73	3.68	64%	0	0%	5.73	3.66	64%	0	0%
GNA_1632003_Capacity	Central Valley	Stockton	WEST POINT BANK 3	1632003	Bank	None	None	None	88%	0.00	0%	6.90	6.09	88%	0	0%	6.90	6.07	88%	0	0%	6.90	6.05	88%	0	0%	6.90	6.04	88%	0	0%	6.90	6.01	87%	0	0%
GNA_163201102_Capacity	Central Valley	Stockton	WEST POINT 1102	163201102	Feeder	None	None	None	82%	0.00	0%	7.48	6.17	82%	0	0%	7.48	6.15	82%	0	0%	7.48	6.12	82%	0	0%	7.48	6.11	82%	0	0%	7.48	6.09	81%	0	0%
GNA_1620701_Capacity	Central Valley	Stockton	LINDEN BANK 1	1620701	Bank	None	None	None	85%	0.00	0%	19.30	16.31	85%	0	0%	19.30	16.28	84%	0	0%	19.30	16.24	84%	0	0%	19.30	16.23	84%	0	0%	19.30	16.19	84%	0	0%
GNA_162071101_Capacity	Central Valley	Stockton	LINDEN 1101	162071101	Feeder	None	None	None	48%	0.00	0%	10.46	5.03	48%	0	0%	10.46	5.03	48%	0	0%	10.46	5.03	48%	0	0%	10.46	5.03	48%	0	0%	10.46	5.02	48%	0	0%
GNA_162071103_Capacity	Central Valley	Stockton	LINDEN 1103	162071103	Feeder	None	None	None	65%	0.00	0%	10.46	6.79	65%	0	0%	10.46	6.79	65%	0	0%	10.46	6.78	65%	0	0%	10.46	6.78	65%	0	0%	10.46	6.77	65%	0	0%
GNA_162071104_Capacity	Central Valley	Stockton	LINDEN 1104	162071104	Feeder	None	None	None	53%	0.00	0%	10.46	5.57	53%	0	0%	10.46	5.56	53%	0	0%	10.46	5.55	53%	0	0%	10.46	5.54	53%	0	0%	10.46	5.53	53%	0	0%
GNA_1632101_Capacity	Central Valley	Stockton	MORMON BANK 1	1632101	Bank	None	None	None	99%	0.00	0%	29.70	29.05	98%	0	0%	29.70	29.39	99%	0	0%	29.70	29.41	99%	0	0%	29.70	29.48	99%	0	0%	29.70	29.51	99%	0	0%
GNA_163211101_Capacity	Central Valley	Stockton	MORMON 1101	163211101	Feeder	None	None	None	88%	0.00	0%	12.36	10.92	88%	0	0%	12.36	10.88	88%	0	0%	12.36	10.84	88%	0	0%	12.36	10.82	88%	0	0%	12.36	10.78	87%	0	0%
GNA_163211102_Capacity	Central Valley	Stockton	MORMON 1102	163211102	Feeder	Demand Growth	Capacity	2021	105%	0.51	4%	12.36	12.87	104%	0.51	4%	12.36	12.9	104%	0.54	4%	12.36	12.92	105%	0.56	5%	12.36	12.96	105%	0.6	5%	12.36	12.99	105%	0.63	5%
GNA_163211103_Capacity	Central Valley	Stockton	MORMON 1103	163211103	Feeder	None	None	None	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC	10.46	CC	CC	CC	CC
GNA_1622302_Capacity	Central Valley	Stockton	COLONY BANK 2	1622302	Bank	Demand Growth	Capacity	2021	115%	0.72	13%	5.41	6.2	115%	0.79	15%	5.41	6.18	114%	0.77	14%	5.41	6.16	114%	0.75	14%	5.41	6.15	114%	0.74	14%	5.41	6.13	113%	0.72	13%
GNA_162231101_Capacity	Central Valley	Stockton	COLONY 1101	162231101	Feeder	None	None	None	47%	0.00	0%	4.06	1.9	47%	0	0%	4.06	1.89	47%	0	0%	4.06	1.89	47%	0	0%	4.06	1.88	46%	0	0%	4.06	1.88	46%	0	0%
GNA_162231102_Capacity	Central Valley	Stockton	COLONY 1102	162231102	Feeder	None	None	None	68%	0.00	0%	6.78	4.62	68%	0	0%	6.78	4.6	68%	0	0%	6.78	4.59	68%	0	0%	6.78	4.58	68%	0	0%	6.78	4.57	67%	0	0%
GNA_1636804_Capacity	Central Valley	Stockton	LOCKEFORD BANK 4	1636804	Bank	Demand Growth	Capacity	2021	114%	0.74	2%	29.70	33.98	114%	4.28	14%	29.70	30.47	103%	0.77	3%	29.70	30.44	102%	0.74	2%	29.70	30.49	103%	0.79	3%	29.70	30.47	103%	0.77	3%
GNA_163682101_Capacity	Central Valley	Stockton	LOCKEFORD 2101	163682101	Feeder	None	None	None	61%	0.00	0%	21.11	12.81	61%	0	0%	21.11	9.35	44%	0	0%	21.11	9.37	44%	0	0%	21.11	9.43	45%	0	0%	21.11	9.45	45%	0	0%
GNA_163682102_Capacity	Central Valley	Stockton	LOCKEFORD 2102	163682102	Feeder	None	None	None	88%	0.00	0%	21.11	18.55	88%	0	0%	21.11	18.53	88%	0	0%	21.11	18.5	88%	0	0%	21.11	18.52	88%	0	0%	21.11	18.5	88%	0	0%
GNA_1621102_Capacity	Central Valley	Stockton	LODI BANK 2	1621102	Bank	Demand Growth	Capacity	2023	101%	0.00	0%	19.75	19.68	100%	0	0%	19.75	19.73	100%	0	0%	19.75	19.77	100%	0.02	0%	19.75	19.85	101%	0.1	1%	19.75	19.9	101%	0.15	1%
GNA_162111101_Capacity	Central Valley	Stockton	LODI 1101	162111101	Feeder	None	None	None	86%	0.00	0%	10.76	9.3	86%	0	0%	10.76	9.24	86%	0	0%	10.76	9.2	86%	0	0%	10.76	9.19	85%	0	0%	10.76	9.16	85%	0	0%
GNA_162111102_Capacity	Central Valley	Stockton	LODI 1102	162111102	Feeder	None	None	None	97%	0.00	0%	10.76	10.34	96%	0	0%	10.76	10.36	96%	0	0%	10.76	10.38	96%	0	0%	10.76	10.42	97%	0	0%	10.76	10.44	97%	0	0%
GNA_1637003_Capacity	Central Valley	Stockton	METTLER BANK 3	1637003	Bank	None	None	None	75%	0.00	0%	10.40	7.81	75%	0	0%	10.40	7.79	75%	0	0%	10.40	7.77	75%	0	0%	10.40	7.76	75%	0	0%	10.40	7.74	74%	0	0%
GNA_163701103_Capacity	Central Valley	Stockton	METTLER 1103	163701103	Feeder	None	None	None	CC	CC	CC	8.92	CC	CC	CC	CC	8.92	CC	CC	CC	CC	8.92	CC	CC	CC	CC	8.92	CC	CC	CC	CC	8.92	CC	CC	CC	CC
GNA_163701110_Capacity	Central Valley	Stockton	METTLER 1110	163701110	Feeder	None	None	None	45%	0.00	0%	10.28	4.58	45%	0	0%	10.28	4.57	44%	0	0%	10.28	4.55	44%	0	0%	10.28	4.55	44%	0	0%	10.28	4.54	44%	0	0%
GNA_1620801_Capacity	Central Valley	Stockton	NEW HOPE BANK 1	1620801	Bank	None	None	None	98%	0.00	0%	5.38	5.25	98%	0	0%	5.38	4.34	81%	0	0%	5.38	4.32	80%	0	0%	5.38	4.32	80%	0	0%	5.38	4.3	80%	0	0%
GNA_162081101_Capacity	Central Valley	Stockton	NEW HOPE 1101	162081101	Feeder	None	None	None	85%	0.00	0%	3.72	3.15	85%	0	0%	3.72	3.15	85%	0	0%	3.72	3.15	85%	0	0%	3.72	3.15	85%	0	0%	3.72	3.15	85%	0	0%
GNA_162081102_Capacity	Central Valley	Stockton	NEW HOPE 1102	162081102	Feeder	None	None	None	CC	CC	CC	6.48	CC	CC	CC	CC	6.48	CC	CC	CC	CC	6.48	CC	CC	CC	CC	6.48	CC	CC	CC	CC	6.48	CC	CC	CC	CC
GNA_1630201_Capacity	Central Valley	Stockton	TERMINOUS BANK 1	1630201	Bank	None	None	None	CC	CC	CC	5.41	CC	CC	CC	CC	5.41	CC	CC	CC	CC	5.41	CC	CC	CC	CC	5.41	CC	CC	CC	CC	5.41	CC	CC	CC	CC
GNA_163021102_Capacity	Central Valley	Stockton	TERMINOUS 1102	163021102	Feeder	None	None	None	CC	CC	CC	7.48	CC	CC	CC	CC	7.48	CC	CC	CC	CC	7.48	CC	CC	CC	CC	7.48	CC	CC	CC	CC	7.48	CC	CC	CC	CC
GNA_163021103_Capacity	Central Valley	Stockton	TERMINOUS 1103	163021103	Feeder	None	None	None	CC	CC	CC	8.13	CC	CC	CC	CC	8.13	CC	CC	CC	CC	8.13	CC	CC	CC	CC	8.13	CC	CC	CC	CC	8.13	CC	CC	CC	CC
GNA_1632801_Capacity	Central Valley	Stockton	VICTOR BANK 1	1632801	Bank	None	None	None	60%	0.00	0%	29.70	14.49	49%	0	0%	29.70	17.88	60%	0	0%	29.70	17.85	60%	0	0%	29.70	17.83	60%	0	0%	29.70	17.8	60%	0	0%
GNA_163281101_Capacity	Central Valley	Stockton	VICTOR 1101	163281101	Feeder	None	None	None	73%	0.00	0%	8.92	6.49	73%	0	0%	8.92	6.42	72%	0	0%	8.92	6.36	71%	0	0%	8.92	6.31	71%	0	0%	8.92	6.26	70%	0	0%
GNA_163281102_Capacity	Central Valley	Stockton	VICTOR 1102	163281102	Feeder	None	None	None	100%	0.00	0%	10.69	7.32	68%	0	0%	10.69	10.73	100%	0.04	0%	10.69	10.71	100%	0.02	0%	10.69	10.7	100%	0.01	0%	10.69	10.68	100%	0	0%
GNA_1635701_Capacity	Central Valley	Stockton	AVENA BANK 1	1635701	Bank	Demand Growth	Capacity	2021	100%	0.29	2%	15.00	15.29	102%	0.29	2%	15.00	15.29	102%	0.29	2%	15.00	15.29	102%	0.29	2%	15.00	15.33	102%	0.33	2%	15.00	15.34	102%	0.34	2%
GNA_163571701_Capacity	Central Valley	Stockton	AVENA 1701	163571701	Feeder	None	None	None	56%	0.00	0%	13.86	7.61	55%	0	0%	13.86	7.64																		

GNA Need ID	Distribution Planning Region	Division	Facility Information			Distribution Service			Peak Deficiency and Loading			2021										2022										2023										2024										2025									
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Deficiency (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)										
GNA_1636201_Capacity	Central Valley	Stockton	WEST LANE BANK 1	1636201	Bank	None	None	None	73%	0.00	0%	29.70	21.76	73%	0	0%	29.70	21.54	73%	0	0%	29.70	21.39	72%	0	0%	29.70	21.5	72%	0	0%	29.70	21.44	72%	0	0%	29.70	21.44	72%	0	0%	29.70	21.44	72%	0	0%	29.70	21.44	72%	0	0%										
GNA_163621101_Capacity	Central Valley	Stockton	WEST LANE 1101	163621101	Feeder	None	None	None	62%	0.00	0%	10.46	6.49	62%	0	0%	10.46	6.38	61%	0	0%	10.46	6.32	60%	0	0%	10.46	6.44	62%	0	0%	10.46	6.48	62%	0	0%	10.46	6.48	62%	0	0%	10.46	6.48	62%	0	0%	10.46	6.48	62%	0	0%										
GNA_163621102_Capacity	Central Valley	Stockton	WEST LANE 1102	163621102	Feeder	None	None	None	78%	0.00	0%	10.46	8.19	78%	0	0%	10.46	8.12	78%	0	0%	10.46	8.07	77%	0	0%	10.46	8.11	78%	0	0%	10.46	8.12	78%	0	0%	10.46	8.12	78%	0	0%	10.46	8.12	78%	0	0%	10.46	8.12	78%	0	0%										
GNA_163621103_Capacity	Central Valley	Stockton	WIGHT LANE 1103	163621103	Feeder	CC	CC	CC	65%	0.00	0%	11.97	CC	CC	CC	CC	11.97	CC	CC	CC	CC	11.97	CC	CC	CC	CC	11.97	CC	CC	CC	CC	11.97	CC	CC	CC	CC	11.97	CC	CC	CC	CC	11.97	CC	CC	CC	CC	11.97	CC	CC	CC	CC										
GNA_1639102_Capacity	Central Valley	Stockton	EIGHT MILE BANK 2	1639102	Bank	None	None	None	65%	0.00	0%	44.55	28.6	64%	0	0%	44.55	28.75	65%	0	0%	44.55	28.69	64%	0	0%	44.55	28.68	64%	0	0%	44.55	28.66	64%	0	0%	44.55	28.66	64%	0	0%	44.55	28.66	64%	0	0%	44.55	28.66	64%	0	0%										
GNA_16391104_Capacity	Central Valley	Stockton	EIGHT MILE 2104	163912104	Feeder	None	None	None	72%	0.00	0%	21.11	15.22	72%	0	0%	21.11	14.98	71%	0	0%	21.11	14.8	70%	0	0%	21.11	14.71	70%	0	0%	21.11	14.65	69%	0	0%	21.11	14.57	69%	0	0%	21.11	14.57	69%	0	0%	21.11	14.57	69%	0	0%										
GNA_163912105_Capacity	Central Valley	Stockton	EIGHT MILE 2105	163912105	Feeder	None	None	None	56%	0.00	0%	21.11	11.8	56%	0	0%	21.11	11.67	55%	0	0%	21.11	11.58	55%	0	0%	21.11	11.55	55%	0	0%	21.11	11.57	55%	0	0%	21.11	11.57	55%	0	0%	21.11	11.57	55%	0	0%	21.11	11.57	55%	0	0%										
GNA_163912106_Capacity	Central Valley	Stockton	EIGHT MILE 2106	163912106	Feeder	None	None	None	CC	CC	CC	24.48	CC	CC	CC	CC	24.48	CC	CC	CC	CC	24.48	CC	CC	CC	CC	24.48	CC	CC	CC	CC	24.48	CC	CC	CC	CC	24.48	CC	CC	CC	CC	24.48	CC	CC	CC	CC	24.48	CC	CC	CC	CC										
GNA_1639103_Capacity	Central Valley	Stockton	EIGHT MILE BANK 3	1639103	Bank	None	None	None	96%	0.00	0%	44.55	42.34	95%	0	0%	44.55	42.68	96%	0	0%	44.55	42.68	96%	0	0%	44.55	42.68	96%	0	0%	44.55	42.74	96%	0	0%	44.55	42.74	96%	0	0%	44.55	42.74	96%	0	0%	44.55	42.74	96%	0	0%										
GNA_163912101_Capacity	Central Valley	Stockton	EIGHT MILE 2101	163912101	Feeder	None	None	None	81%	0.00	0%	18.96	15.21	80%	0	0%	18.96	15.27	81%	0	0%	18.96	15.32	81%	0	0%	18.96	15.39	81%	0	0%	18.96	15.44	81%	0	0%	18.96	15.44	81%	0	0%	18.96	15.44	81%	0	0%	18.96	15.44	81%	0	0%										
GNA_163912102_Capacity	Central Valley	Stockton	EIGHT MILE 2102	163912102	Feeder	None	None	None	67%	0.00	0%	18.96	12.62	67%	0	0%	18.96	12.67	67%	0	0%	18.96	12.67	67%	0	0%	18.96	12.72	67%	0	0%	18.96	12.77	67%	0	0%	18.96	12.77	67%	0	0%	18.96	12.77	67%	0	0%	18.96	12.77	67%	0	0%										
GNA_163912103_Capacity	Central Valley	Stockton	EIGHT MILE 2103	163912103	Feeder	None	None	None	48%	0.00	0%	18.96	9.16	48%	0	0%	18.96	8.9	47%	0	0%	18.96	8.87	47%	0	0%	18.96	8.87	47%	0	0%	18.96	8.85	47%	0	0%	18.96	8.85	47%	0	0%	18.96	8.85	47%	0	0%	18.96	8.85	47%	0	0%										
GNA_1637201_Capacity	Central Valley	Stockton	MOSHER BANK 1	1637201	Bank	None	None	None	66%	0.00	0%	29.70	19.66	66%	0	0%	29.70	19.34	65%	0	0%	29.70	19.12	64%	0	0%	29.70	19.03	64%	0	0%	29.70	18.89	64%	0	0%	29.70	18.89	64%	0	0%	29.70	18.89	64%	0	0%	29.70	18.89	64%	0	0%										
GNA_16372105_Capacity	Central Valley	Stockton	MOSHER 2105	163722105	Feeder	None	None	None	41%	0.00	0%	18.63	7.73	41%	0	0%	18.63	7.7	41%	0	0%	18.63	7.68	41%	0	0%	18.63	7.69	41%	0	0%	18.63	7.69	41%	0	0%	18.63	7.69	41%	0	0%	18.63	7.69	41%	0	0%	18.63	7.69	41%	0	0%										
GNA_163722104_Capacity	Central Valley	Stockton	MOSHER 2104	163722104	Feeder	None	None	None	71%	0.00	0%	18.63	13.32	71%	0	0%	18.63	13.05	70%	0	0%	18.63	12.81	69%	0	0%	18.63	12.64	68%	0	0%	18.63	12.47	67%	0	0%	18.63	12.47	67%	0	0%	18.63	12.47	67%	0	0%	18.63	12.47	67%	0	0%										
GNA_1637202_Capacity	Central Valley	Stockton	MOSHER BANK 2	1637202	Bank	None	None	None	86%	0.00	0%	29.70	25.59	86%	0	0%	29.70	25.31	85%	0	0%	29.70	25.11	85%	0	0%	29.70	25.04	84%	0	0%	29.70	24.92	84%	0	0%	29.70	24.92	84%	0	0%	29.70	24.92	84%	0	0%	29.70	24.92	84%	0	0%										
GNA_163722107_Capacity	Central Valley	Stockton	MOSHER 2107	163722107	Feeder	None	None	None	44%	0.00	0%	21.22	9.44	44%	0	0%	21.22	9.3	44%	0	0%	21.22	9.18	43%	0	0%	21.22	9.1	43%	0	0%	21.22	9.01	42%	0	0%	21.22	9.01	42%	0	0%	21.22	9.01	42%	0	0%	21.22	9.01	42%	0	0%										
GNA_163722108_Capacity	Central Valley	Stockton	MOSHER 2108	163722108	Feeder	None	None	None	86%	0.00	0%	21.11	18.06	86%	0	0%	21.11	17.91	85%	0	0%	21.11	17.83	84%	0	0%	21.11	17.84	85%	0	0%	21.11	17.83	84%	0	0%	21.11	17.83	84%	0	0%	21.11	17.83	84%	0	0%	21.11	17.83	84%	0	0%										
GNA_1637203_Capacity	Central Valley	Stockton	MOSHER BANK 3	1637203	Bank	None	None	None	54%	0.00	0%	44.52	24.02	54%	0	0%	44.52	23.75	53%	0	0%	44.52	23.52	53%	0	0%	44.52	23.38	53%	0	0%	44.52	23.2	52%	0	0%	44.52	23.2	52%	0	0%	44.52	23.2	52%	0	0%	44.52	23.2	52%	0	0%										
GNA_163722110_Capacity	Central Valley	Stockton	MOSHER 2110	163722110	Feeder	None	None	None	CC	CC	CC	21.41	CC	CC	CC	CC	21.41	CC	CC	CC	CC	21.41	CC	CC	CC	CC	21.41	CC	CC	CC	CC	21.41	CC	CC	CC	CC	21.41	CC	CC	CC	CC	21.41	CC	CC	CC	CC	21.41	CC	CC	CC	CC										
GNA_163722111_Capacity	Central Valley	Stockton	MOSHER 2111	163722111	Feeder	None	None	None	79%	0.00	0%	21.41	16.84	79%	0	0%	21.41	16.68	78%	0	0%	21.41	16.57	77%	0	0%	21.41	16.51	77%	0	0%	21.41	16.44	77%	0	0%	21.41	16.44	77%	0	0%	21.41	16.44	77%	0	0%	21.41	16.44	77%	0	0%										
GNA_1624205_Capacity	Central Valley	Stockton	STAGG BANK 5	1624205	Bank	None	None	None	70%	0.00	0%	74.23	51.61	70%	0	0%	74.23	50.86	69%	0	0%	74.23	50.21	68%	0	0%	74.23	49.81	67%	0	0%	74.23	49.29	66%	0	0%	74.23	49.29	66%	0	0%	74.23	49.29	66%	0	0%	74.23	49.29	66%	0	0%										
GNA_162422103_Capacity	Central Valley	Stockton	STAGG 2103	162422103	Feeder	None	None	None	67%	0.00	0%	20.00	13.37	67%	0	0%	20.00	13.18	66%	0	0%	20.00	13	65%	0	0%	20.00	12.89	64%	0	0%	20.00	12.74	64%	0	0%	20.00	12.74	64%	0	0%	20.00	12.74	64%	0	0%	20.00	12.74	64%	0	0%										
GNA_162422104_Capacity	Central Valley	Stockton	STAGG 2104	162422104	Feeder	None	None	None	87%	0.00	0%	21.22	18.56	87%	0	0%	21.22	18.29	86%	0	0%	21.22	18.05	85%	0	0%	21.22	17.93	84%	0	0%	21.22	17.76	84%	0	0%	21.22	17.76	84%	0	0%	21.22	17.76	84%	0	0%	21.22	17.76	84%	0	0%										
GNA_162422105_Capacity	Central Valley	Stockton	STAGG 2105	162422105	Feeder	None	None	None	92%	0.00	0%	21.41	19.61	92%	0	0%	21.41	19.31	90%	0	0%	21.41	19.04	89%	0	0%	21.41	18.87	88%	0	0%	21.41	18.66	87%	0	0%	21.41	18.66	87%	0	0%	21.41	18.66	87%	0	0%	21.41	18.66	87%	0	0%										
GNA_1624206_Capacity	Central Valley	Stockton	STAGG BANK 6	1624206	Bank	None	None	None	49%	0.00	0%	74.23	36.53	49%	0	0%	74.23	36.06	48%	0	0%	74.23	35.64	48%	0	0%	74.23	35.2	47%	0	0%	74.23	35.2	47%	0	0%	74.23	35.2	47%	0	0%	74.23	35.2	47%	0	0%	74.23	35.2	47%	0	0%										
GNA_162422106_Capacity	Central Valley	Stockton	STAGG 2106	162422106	Feeder	None	None	None	70%	0.00	0%	18.96	13.35	70%	0	0%	18.96	13.06	69%	0	0%	18.96	12.83	68%	0	0%	18.96	12.72	67%	0	0%	18.96	12.58	66%	0	0%	18.96	12.58	66%	0	0%	18.96	12.58	66%	0	0%	18.96	12.58													

GNA Need ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Distribution Service			Peak Deficiency and Loading			2021					2022					2023					2024					2025					
						Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Loading (%) 2021-2025	Peak Facility Deficiency (MW) 2021-2025	Peak Facility Capacity (%) 2021-2025	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Facility Loading (%)	Deficiency (MW)	Deficiency (%)	
GNA_162370410_Capacity	Central Valley	Stockton	STOCKTON A 0410	162370410	Feeder	None	None	None	66%	0.00	0%	2.94	1.94	66%	0	0%	2.94	1.91	65%	0	0%	2.94	1.88	64%	0	0%	2.94	1.85	63%	0	0%	2.94	1.82	62%	0	0%	
GNA_1624701_Capacity	Central Valley	Stockton	BANTA BANK 1	1624701	Bank	None	None	None	113%	0.00	0%	8.80	9.98	113%	1.18	13%	8.80	7.18	82%	0	0%	8.80	7.15	81%	0	0%	8.80	7.13	81%	0	0%	8.80	7.1	81%	0	0%	
GNA_162471101_Capacity	Central Valley	Stockton	BANTA 1101	162471101	Feeder	None	None	None	CC	CC	CC	8.81	CC	CC	CC	CC	8.81	CC	CC	CC	CC	CC	8.81	CC	CC	CC	CC	8.81	CC	CC	CC	CC	8.81	CC	CC	CC	CC
GNA_162471102_Capacity	Central Valley	Stockton	BANTA 1102	162471102	Feeder	None	None	None	CC	CC	CC	8.81	CC	CC	CC	CC	8.81	CC	CC	CC	CC	CC	8.81	CC	CC	CC	CC	8.81	CC	CC	CC	CC	8.81	CC	CC	CC	CC
GNA_162471103_Capacity	Central Valley	Stockton	BANTA 1103	162471103	Feeder	None	None	None	95%	0.00	0%	6.41	6.11	95%	0	0%	6.41	6.1	95%	0	0%	6.41	6.09	95%	0	0%	6.41	6.08	95%	0	0%	6.41	6.08	95%	0	0%	
GNA_1630901_Capacity	Central Valley	Stockton	CARBONA BANK 1	1630901	Bank	Demand Growth	Capacity	2023	106%	0.00	0%	29.70	24.08	81%	0	0%	29.70	29.65	100%	0	0%	29.70	29.94	101%	0.24	1%	29.70	30.72	103%	1.02	3%	29.70	31.48	106%	1.78	6%	
GNA_163091101_Capacity	Central Valley	Stockton	CARBONA 1101	163091101	Feeder	Demand Growth	Capacity	2025	CC	CC	CC	12.91	CC	CC	CC	CC	12.91	CC	CC	CC	CC	CC	12.91	CC	CC	CC	CC	12.91	CC	CC	CC	CC	12.91	CC	CC	CC	CC
GNA_163091103_Capacity	Central Valley	Stockton	CARBONA 1103	163091103	Feeder	None	None	None	CC	CC	CC	12.42	CC	CC	CC	CC	12.42	CC	CC	CC	CC	CC	12.42	CC	CC	CC	CC	12.42	CC	CC	CC	CC	12.42	CC	CC	CC	CC
GNA_163091104_Capacity	Central Valley	Stockton	CARBONA 1104	163091104	Feeder	None	None	None	97%	0.00	0%	12.19	10.18	84%	0	0%	12.19	11.78	97%	0	0%	12.19	11.75	96%	0	0%	12.19	11.74	96%	0	0%	12.19	11.72	96%	0	0%	
GNA_1630902_Capacity	Central Valley	Stockton	CARBONA BANK 2	1630902	Bank	None	None	None	CC	CC	CC	7.40	CC	CC	CC	CC	29.70	CC	CC	CC	CC	CC	29.70	CC	CC	CC	CC	29.70	CC	CC	CC	CC	29.70	CC	CC	CC	CC
GNA_163091102_Capacity	Central Valley	Stockton	CARBONA 1102	163091102	Feeder	None	None	None	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC	10.69	CC	CC	CC	CC
GNA_1637401_Capacity	Central Valley	Stockton	HERDLYN BANK 1	1637401	Bank	None	None	None	102%	0.00	0%	12.40	12.65	102%	0.25	2%	12.40	11.25	91%	0	0%	12.40	11.25	91%	0	0%	12.40	11.36	92%	0	0%	12.40	11.45	92%	0	0%	
GNA_163741102_Capacity	Central Valley	Stockton	HERDLYN 1102	163741102	Feeder	None	None	None	79%	0.00	0%	12.19	9.58	79%	0	0%	12.19	8.19	67%	0	0%	12.19	8.19	67%	0	0%	12.19	8.31	68%	0	0%	12.19	8.42	69%	0	0%	
GNA_163741103_Capacity	Central Valley	Stockton	HERDLYN 1103	163741103	Feeder	Demand Growth	Capacity	2021	102%	0.02	1%	3.72	3.79	102%	0.07	2%	3.72	3.78	102%	0.06	2%	3.72	3.76	101%	0.04	1%	3.72	3.75	101%	0.03	1%	3.72	3.74	101%	0.02	1%	
GNA_1627701_Capacity	Central Valley	Stockton	LAMMERS BANK 1	1627701	Bank	None	None	None	73%	0.00	0%	44.60	32.77	73%	0	0%	44.60	28.29	63%	0	0%	44.60	28.73	64%	0	0%	44.60	29.18	65%	0	0%	44.60	29.26	66%	0	0%	
GNA_162771101_Capacity	Central Valley	Stockton	LAMMERS 1101	162771101	Feeder	Demand Growth	Capacity	2021	CC	CC	CC	12.36	CC	CC	CC	CC	12.36	CC	CC	CC	CC	CC	12.36	CC	CC	CC	CC	12.36	CC	CC	CC	CC	12.36	CC	CC	CC	CC
GNA_162771102_Capacity	Central Valley	Stockton	LAMMERS 1102	162771102	Feeder	None	None	None	CC	CC	CC	12.36	CC	CC	CC	CC	12.36	CC	CC	CC	CC	CC	12.36	CC	CC	CC	CC	12.36	CC	CC	CC	CC	12.36	CC	CC	CC	CC
GNA_162771103_Capacity	Central Valley	Stockton	LAMMERS 1103	162771103	Feeder	None	None	None	99%	0.00	0%	12.36	12.24	99%	0	0%	12.36	8.63	70%	0	0%	12.36	8.57	69%	0	0%	12.36	8.55	69%	0	0%	12.36	8.5	69%	0	0%	
GNA_1627702_Capacity	Central Valley	Stockton	LAMMERS BANK 2	1627702	Bank	None	None	None	74%	0.00	0%	44.60	32.5	73%	0	0%	44.60	33.13	74%	0	0%	44.60	33.09	74%	0	0%	44.60	33.18	74%	0	0%	44.60	33.21	74%	0	0%	
GNA_162771105_Capacity	Central Valley	Stockton	LAMMERS 1105	162771105	Feeder	None	None	None	94%	0.00	0%	12.36	11.57	94%	0	0%	12.36	8.23	67%	0	0%	12.36	8.21	66%	0	0%	12.36	8.24	67%	0	0%	12.36	8.28	67%	0	0%	
GNA_162771106_Capacity	Central Valley	Stockton	LAMMERS 1106	162771106	Feeder	Demand Growth	Capacity	2022	113%	0.00	0%	12.36	10.59	86%	0	0%	12.36	13.87	112%	1.51	12%	12.36	13.85	112%	1.49	12%	12.36	13.89	112%	1.53	12%	12.36	13.92	113%	1.56	13%	
GNA_162771107_Capacity	Central Valley	Stockton	LAMMERS 1107	162771107	Feeder	None	None	None	105%	0.00	0%	12.36	13	105%	0.64	5%	12.36	12.27	99%	0	0%	12.36	12.24	99%	0	0%	12.36	12.26	99%	0	0%	12.36	12.26	99%	0	0%	
GNA_1628801_Capacity	Central Valley	Stockton	TRACY BANK 1	1628801	Bank	Demand Growth	Capacity	2022	121%	0.00	0%	29.70	27.67	93%	0	0%	29.70	31.24	105%	1.54	5%	29.70	35.05	118%	5.35	18%	29.70	35.69	120%	5.99	20%	29.70	36.04	121%	6.34	21%	
GNA_162880405_Capacity	Central Valley	Stockton	TRACY 0405	162880405	Feeder	None	None	None	94%	0.00	0%	2.46	2.31	94%	0	0%	2.46	0.1	4%	0	0%	2.46	0.09	4%	0	0%	2.46	0.08	3%	0	0%	2.46	0.07	3%	0	0%	
GNA_162881102_Capacity	Central Valley	Stockton	TRACY 1102	162881102	Feeder	Demand Growth	Capacity	2022	CC	CC	CC	12.25	CC	CC	CC	CC	12.25	CC	CC	CC	CC	CC	12.25	CC	CC	CC	CC	12.25	CC	CC	CC	CC	12.25	CC	CC	CC	CC
GNA_162881103_Capacity	Central Valley	Stockton	TRACY 1103	162881103	Feeder	None	None	None	98%	0.00	0%	12.36	12.06	98%	0	0%	12.36	11.97	97%	0	0%	12.36	11.89	96%	0	0%	12.36	11.84	96%	0	0%	12.36	11.78	95%	0	0%	
GNA_162881104_Capacity	Central Valley	Stockton	TRACY 1104	162881104	Feeder	None	None	None	100%	0.00	0%	10.95	7.23	66%	0	0%	10.95	7.77	71%	0	0%	10.95	8.31	76%	0	0%	10.95	8.25	75%	0	0%	10.95	8.17	75%	0	0%	
GNA_1628802_Capacity	Central Valley	Stockton	TRACY BANK 2	1628802	Bank	None	None	None	92%	0.00	0%	44.55	37.74	85%	0	0%	44.55	41.05	92%	0	0%	44.55	41.05	92%	0	0%	44.55	41.05	92%	0	0%	44.55	41.05	92%	0	0%	
GNA_162881105_Capacity	Central Valley	Stockton	TRACY 1105	162881105	Feeder	Demand Growth	Capacity	2021	121%	2.00	18%	10.95	13.23	121%	2.28	21%	10.95	13.14	120%	2.19	20%	10.95	13.06	119%	2.11	19%	10.95	13.02	119%	2.07	19%	10.95	12.95	118%	2	18%	
GNA_162881106_Capacity	Central Valley	Stockton	TRACY 1106	162881106	Feeder	Demand Growth	Capacity	2022	102%	0.00	0%	12.19	11.76	96%	0	0%	12.19	12.46	102%	0.27	2%	12.19	12.46	102%	0.27	2%	12.19	12.46	102%	0.27	2%	12.19	12.46	102%	0.27	2%	
GNA_162881107_Capacity	Central Valley	Stockton	TRACY 1107	162881107	Feeder	None	None	None	103%	0.00	0%	12.19	12.61	103%	0.42	3%	12.19	11.72	96%	0	0%	12.19	11.69	96%	0	0%	12.19	11.7	96%	0	0%	12.19	11.69	96%	0	0%	
GNA_162880402_Capacity	Central Valley	Stockton	TRACY 0402	162880402	Feeder	None	None	None	64%	0.00	0%	2.03	1.3	64%	0	0%	2.03	1.29	64%	0	0%	2.03	1.28	63%	0	0%	2.03	1.27	63%	0	0%	2.03	1.26	62%	0	0%	
GNA_1628803_Capacity	Central Valley	Stockton	TRACY BANK 3	1628803	Bank	None	Monitor	None	102%	0.06	0%	29.69	30.18	102%	0.49	2%	29.69	29.75	100%	0.06	0%	29.69	29.75	100%	0.06	0%	29.69	29.84	101%	0.15	1%	29.69	29.83	100%	0.14	0%	
GNA_162881109_Capacity	Central Valley	Stockton	TRACY 1109	162881109	Feeder	None	None	None	102%	0.00	0%	12.19	12.47	102%	0.28	2%	12.19	11.9	98%	0	0%	12.19	11.97	98%	0	0%	12.19	12.05	99%	0	0%	12.19	12.1	99%	0	0%	
GNA_162881110_Capacity	Central Valley	Stockton	TRACY 1110	162881110	Feeder	None	None	None	CC	CC	CC	12.25	CC	CC	CC	CC	12.25	CC	CC	CC	CC	CC	12.25	CC	CC	CC	CC	12.25	CC	CC	CC	CC	12.25	CC	CC	CC	CC
GNA_162881111_Capacity	Central Valley	Stockton	TRACY 1111	162881111	Feeder	None	None	None	90%	0.00	0%	12.19	9.64	79%	0	0%	12.19	10.98	90%	0	0%	12.19	10.9	89%	0	0%	12.19	10.87	89%	0	0%	12.19	10.82	89%	0	0%	
GNA_1628804_Capacity	Central Valley	Stockton	TRACY BANK 4	1628804	Bank	None	None	None	89%	0.00	0%	15.84	14.05	89%	0	0%	15.84	12.15	77%	0	0%	15.84	12.12	77%	0	0%	15.84	12.12	77%	0	0%	15.84	12.1	76%	0	0%	
GNA_162881112_Capacity	Central Valley	Stockton	TRACY 1112	162881112	Feeder	None	None	None	109%	0.00	0%	12.83	13.93	109%	1.1	9%	12.83	12.03	94%	0	0%	12.83	12	94%	0	0%	12.83	12	94%	0	0%	12.83	11.98	93%	0	0%	
GNA_2536101_Capacity	Central Valley	Yosemite	ATWATER BANK 1	2536101	Bank	None	None	None</																													

PG&E 2021 Grid Needs Assessment (GNA)
Appendix F: GNA Results - Reliability/Resiliency Needs
Version Date: 08/16/21
Public

GNA NEED ID	Distribution Planning Region	Division	Facility Information			Distribution Service			Peak Deficiency	2021				2022				2023				2024				2025			
			Facility Name	Facility ID	Facility Type	Primary Driver	Distribution Service Required	Anticipated Need Date	Peak Facility Deficiency (MW) 2021 - 2025	Facility Rating (MW)	Facility Loading (MW)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Deficiency (MW)	Deficiency (%)	Facility Rating (MW)	Facility Loading (MW)	Deficiency (MW)	Deficiency (%)
GNA_012091116_Resiliency (micro-grid)	Bay Area	East Bay	OAKLAND J 1116	012091116	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	2.57	10.16	11.59	2.54	28%	10.16	11.62	2.55	28%	10.16	11.66	2.56	28%	10.16	11.68	2.56	28%	10.16	11.70	2.57	28%
GNA_012541115_Resiliency (micro-grid)	Bay Area	East Bay	OAKLAND X 1115	012541115	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	1.23	11.87	6.27	1.22	24%	11.87	6.28	1.22	24%	11.87	6.29	1.23	24%	11.87	6.31	1.23	24%	11.87	6.32	1.23	24%
GNA_022101107_Resiliency (micro-grid)	Bay Area	San Francisco	MARTIN (SF H) 1107	022101107	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	0.87	10.76	5.60	0.87	18%	10.76	5.58	0.87	18%	10.76	5.55	0.86	18%	10.76	5.53	0.86	18%	10.76	5.51	0.85	18%
GNA_022101108_Resiliency (micro-grid)	Bay Area	San Francisco	MARTIN (SF H) 1108	022101108	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	CC	11.57	CC	CC	CC	11.57	CC	CC	CC	11.57	CC	CC	CC	11.57	CC	CC	CC	11.57	CC	CC	CC
GNA_022011113_Resiliency (micro-grid)	Bay Area	San Francisco	MISSION (SF X) 1113	022011113	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	0.93	6.84	5.48	0.88	19%	6.84	5.55	0.89	19%	6.84	5.62	0.90	19%	6.84	5.72	0.92	19%	6.84	5.79	0.93	19%
GNA_083622106_Resiliency (micro-grid)	Central Coast	Central Coast	CAMP EVERS 2106	083622106	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	1.14	20.67	16.28	1.14	8%	20.67	16.28	1.14	8%	20.67	16.28	1.14	8%	20.67	16.29	1.14	8%	20.67	16.29	1.14	8%
GNA_182222104_Resiliency (micro-grid)	Central Coast	Central Coast	DEL MONTE 2104	182222104	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	1.59	21.11	15.40	1.57	11%	21.11	15.45	1.58	11%	21.11	15.50	1.58	11%	21.11	15.56	1.59	11%	21.11	15.61	1.59	11%
GNA_182222105_Resiliency (micro-grid)	Central Coast	Central Coast	DEL MONTE 2105	182222105	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	4.20	22.22	11.41	4.20	58%	22.22	11.40	4.20	58%	22.22	11.40	4.20	58%	22.22	11.40	4.20	58%	22.22	11.40	4.20	58%
GNA_083692105_Resiliency (micro-grid)	Central Coast	Central Coast	ROB ROY 2105	083692105	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	3.69	22.04	11.47	3.69	48%	22.04	11.46	3.69	48%	22.04	11.45	3.69	48%	22.04	11.46	3.69	48%	22.04	11.46	3.69	48%
GNA_182011102_Resiliency (micro-grid)	Central Coast	Central Coast	SALINAS 1102	182011102	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	CC	12.83	CC	CC	CC	12.83	CC	CC	CC	12.83	CC	CC	CC	12.83	CC	CC	CC	12.83	CC	CC	CC
GNA_182601106_Resiliency (micro-grid)	Central Coast	Los Padres	OCEANO 1106	182601106	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	0.97	14.26	7.20	0.97	16%	14.26	7.18	0.96	16%	14.26	7.15	0.96	16%	14.26	7.14	0.96	16%	14.26	7.12	0.96	16%
GNA_013501105_Resiliency (micro-grid)	Central Coast	Mission	JARVIS 1105	013501105	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	0.64	10.31	10.45	0.62	6%	10.31	10.54	0.62	6%	10.31	10.62	0.63	6%	10.31	10.71	0.63	6%	10.31	10.78	0.64	6%
GNA_013501111_Resiliency (micro-grid)	Central Coast	Mission	JARVIS 1111	013501111	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	0.79	13.15	13.52	0.79	6%	13.15	13.48	0.79	6%	13.15	13.52	0.79	6%	13.15	13.55	0.79	6%	13.15	13.57	0.79	6%
GNA_013501112_Resiliency (micro-grid)	Central Coast	Mission	JARVIS 1112	013501112	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	CC	11.16	CC	CC	CC	11.16	CC	CC	CC	11.16	CC	CC	CC	11.16	CC	CC	CC	11.16	CC	CC	CC
GNA_013111107_Resiliency (micro-grid)	Central Coast	Mission	SAN LEANDRO U 1107	013111107	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	0.55	12.83	9.03	0.55	7%	12.83	9.03	0.55	7%	12.83	9.03	0.55	7%	12.83	9.03	0.55	7%	12.83	9.02	0.55	7%
GNA_082952108_Resiliency (micro-grid)	Central Coast	San Jose	EDENVALE 2108	082952108	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	1.99	20.04	17.97	1.82	11%	20.04	19.66	1.99	11%	20.04	19.66	1.99	11%	20.04	19.68	1.99	11%	20.04	19.68	1.99	11%
GNA_014452103_Resiliency (micro-grid)	Bay Area	Diablo	KIRKER 2103	014452103	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	1.81	33.07	26.59	1.81	7%	33.07	26.55	1.80	7%	33.07	26.51	1.80	7%	33.07	26.51	1.80	7%	33.07	26.45	1.80	7%
GNA_042011108_Resiliency (micro-grid)	Bay Area	North Bay	SAN RAFAEL 1108	042011108	Feeder	> 6000 cust	Resiliency (micro-grid)	2021	0.50	11.65	11.79	0.49	4%	11.65	11.82	0.49	4%	11.65	11.85	0.49	4%	11.65	11.89	0.50	4%	11.65	11.92	0.50	4%
GNA_014592112_Reliability / Other	Bay Area	Diablo	BRENTWOOD 2112	014592112	Feeder	> 600A	Reliability / Other	2021	7.05	26.22	26.02	3.80	17%	26.22	29.27	7.05	32%	26.22	29.03	6.81	31%	26.22	29.07	6.85	31%	26.22	29.10	6.88	31%
GNA_014452103_Reliability / Other	Bay Area	Diablo	KIRKER 2103	014452103	Feeder	> 600A	Reliability / Other	2021	4.37	33.07	26.59	4.37	20%	33.07	26.55	4.33	19%	33.07	26.51	4.29	19%	33.07	26.51	4.29	19%	33.07	26.45	4.23	19%
GNA_022571106_Reliability / Other	Central Coast	Peninsula	EAST GRAND 1106	022571106	Feeder	> 600A	Reliability / Other	2021	CC	18.11	CC	CC	CC	18.11	CC	CC	CC	18.11	CC	CC	CC	18.11	CC	CC	CC	18.11	CC	CC	CC
GNA_083871101_Reliability / Other	Central Coast	San Jose	FMC 1101	083871101	Feeder	> 600A	Reliability / Other	2021	CC	21.38	CC	CC	CC	21.38	CC	CC	CC	21.38	CC	CC	CC	21.38	CC	CC	CC	21.38	CC	CC	CC
GNA_254762102_Reliability / Other	Central Valley	Kern	ROSEDALE 2102	254762102	Feeder	> 600A	Reliability / Other	2021	0.03	21.38	12.86	0.03	0%	21.38	12.73	-0.10	-1%	21.38	12.59	-0.24	-2%	21.38	12.47	-0.36	-3%	21.38	12.33	-0.50	-4%
GNA_153781105_Reliability / Other	Northern	Sierra	BOGUE 1105	153781105	Feeder	> 600A	Reliability / Other	2021	2.02	14.26	14.68	1.85	14%	14.26	14.71	1.88	15%	14.26	14.73	1.90	15%	14.26	14.79	1.96	15%	14.26	14.85	2.02	16%
GNA_0138005_Reliability / Other	Bay Area	Diablo	MORAGA BANK 5	0138005	Bank	Emergency Bank Loss	Reliability / Other	2021	13.40	40.60	39.70	13.40	33%	40.60	39.47	13.40	33%	40.60	39.28	13.40	33%	40.60	39.21	13.40	33%	40.60	39.07	13.40	33%
GNA_014592105_Reliability / Other	Bay Area	Diablo	BRENTWOOD 2105	014592105	Line section	Mainline Loop	Reliability / Other	2021	1.20	21.41	16.20	1.20	6%	21.41	16.69	1.20	6%	21.41	17.19	1.20	6%	21.41	17.19	1.20	6%	21.41	17.14	1.20	6%
GNA_042481101_Reliability / Other	Bay Area	North Bay	IGNACIO 1101	042481101	Line section	Mainline Loop	Reliability / Other	2021	2.90	11.80	9.98	2.90	25%	11.80	9.94	2.90	25%	11.80	9.90	2.90	25%	11.80	9.87	2.90	25%	11.80	9.83	2.90	25%
GNA_182671112_Reliability / Other	Central Coast	Los Padres	SANTA MARIA 1112	182671112	Line section	Mainline Loop	Reliability / Other	2021	CC	11.57	CC	CC	CC	11.57	CC	CC	CC	11.57	CC	CC	CC	11.57	CC	CC	CC	11.57	CC	CC	CC
GNA_255002101_Reliability / Other	Central Valley	Fresno	AVENAL 2101	255002101	Line section	Mainline Loop	Reliability / Other	2021	CC	18.52	CC	CC	CC	18.52	CC	CC	CC	18.52	CC	CC	CC	18.52	CC	CC	CC	18.52	CC	CC	CC
GNA_252241116_Reliability / Other	Central Valley	Fresno	KINGSBURG 1116	252241116	Line section	Mainline Loop	Reliability / Other	2021	1.30	11.55	11.68	1.30	11%	11.55	11.71	1.30	11%	11.55	11.75	1.30	11%	11.55	11.83	1.30	11%	11.55	11.87	1.30	11%
GNA_163722108_Reliability / Other	Central Valley	Stockton	MOSHER 2108	163722108	Line section	Mainline Loop	Reliability / Other	2021	11.50	21.11	18.06	4.90	23%	21.11	17.91	11.50	23%	21.11	17.83	4.90	23%	21.11	17.84	4.90	23%	21.11	17.83	4.90	23%
GNA_062041102_Reliability / Other	Northern	Sacramento	DAVIS 1102	062041102	Line section	Mainline Loop	Reliability / Other	2021	2.10	12.19	11.87	2.10	17%	12.19	11.73	2.10	17%	12.19	11.68	2.10	17%	12.19	11.66	2.10	17%	12.19	11.66	2.10	17%
GNA_063172101_Reliability / Other	Northern	Sacramento	MADISON 2101	063172101	Line section	Mainline Loop	Reliability / Other	2021	CC	18.11	CC	CC	CC	18.11	CC	CC	CC	18.11	CC	CC	CC	18.11	CC	CC	CC	18.11	CC	CC	CC
GNA_063642106_Reliability / Other	Northern	Sacramento	PEABODY 2106	063642106	Line section	Mainline Loop	Reliability / Other	2021	CC	18.63	CC	CC	CC	18.63	CC	CC	CC	18.63	CC	CC	CC	18.63	CC	CC	CC	18.63	CC	CC	CC
GNA_042151111_Reliability / Other	Northern	Sonoma	SANTA ROSA A 1111	042151111	Line section	Mainline Loop	Reliability / Other	2021	0.70	8.87	10.57	0.70	8%	8.87	10.62	0.70	8%	8.87	10.69	0.70	8%	8.87	10.75	0.70	8%	8.87	10.80	0.70	8%
GNA_162301101_Reliability / Other	Central Valley	Stockton	VALLEY SPRINGS NEW 1101 (2020)	162301101	Feeder	Emergency line loss	Reliability / Other	2021	5.17	12.83	5.17	5.17	100%	12.83	5.17	5.17	100%	12.83	5.17	5.17	100%	12.83	5.17	5.17	100%	12.83	5.17	5.17	100%
GNA_1636804_Resiliency (micro-grid)	Central Valley	Stockton	LOCKEFORD BANK 4	1636804	Bank	Emergency Bank Loss	Resiliency (micro-grid)	2021	14.80	29.70	33.98	14.80	50%	29.70	30.47	14.80	50%	29.70	30.44	14.80	50%	29.70	30.49	14.80	50%	29.70	30.47	14.80	50%
GNA_153761102_Reliability / Other	Northern	Sierra	CATLETT 1102	153761102	Line Section	Back-Tie	Reliability / Other	2026	6.00	7.61	5.61	6.00	52%	7.61	5.60	6.00	52%	7.61	5.58	6.00	52%	7.61	5.58	6.00	52%	7.61	5.56	6.00	52%
GNA_838903_Resiliency (micro-grid)	Central Coast	San Jose	MONTAGUE BANK 3	838903	Bank	Emergency Bank Loss	Resiliency (micro-grid)	2025	7.60	44.60	34.45	7.60	17%	44.60	40.37	7.60	17%	59.40	44.30	7.60	13%	59.40	46.29	7.60	13%	59.40	47.97	7.60	13%
GNA_1825601_Reliability / Other	Central Coast	Los Padres	Cholame Sub DA	1825601	Substation	T-line clearance	Reliability / Other	2021	4.75	12.32	4.75	4.75	45%	12.32	4.72	4.72	38%	12.32	4.68	4.68	38%	12.32	4.65	4.65	38%	12.32	4.60	4.60	37%
GNA_1825601_Reliability / Other	Central Coast	Los Padres	Cholame Sub RT	1825601	Substation	T-line emergency	Reliability / Other	2021	4.75	12.32	4.75	4.75	45%	12.32	4.72	4.72	38%	12.32	4.68	4.68	38%	12.32	4.65	4.65	38%	12.32	4.60	4.60	37%
GNA_182561101_Reliability / Other	Central Coast	Los Padres	Cholame Between X14 and R96	182561101	Substation	Emergency line loss	Reliability / Other	2021	4.89	8.13	4.89	4.89	12%	8.13	4.85	4.85	60%	8.13											

PG&E 2021 Grid Needs Assessment (GNA)
Appendix G: GNA Results - Line Section Capacity and Voltage Needs
Version Date: 08/16/21 (Will be appended via Supplemental Filing on 10/15/21)
Public

	Facility Information					Distribution Service				2021					2022					2023				
GNA NEED ID	Distribution Planning Region	Division	Facility Name	Facility ID	Facility Type	Distribution Service Required	Anticipated Need Date	Facility Rating	Facility Rating Units	2021 Distribution Service Required	2021 VPU	2021 Volt	2021 Deficiency (kW)	2021 Deficiency (%)	2022 Distribution Service Required	2022 VPU	2022 Volt	2022 Deficiency (kW)	2022 Deficiency (%)	2023 Distribution Service Required	2023 VPU	2023 Volt	2023 Deficiency (kW)	2023 Deficiency (%)
GNA_1_Voltage	Central Valley	Yosemite	Storey 1104	254611104	Line Section	Voltage	2021	120	V	Undervoltage	0.97	116.00	NA	3.73%	Undervoltage	0.96	115.42	NA	4.22%	Undervoltage	0.96	15.41	NA	4.22%
GNA_2_Voltage	Central Valley	Fresno	Airways 1107	252041107	Line Section	Voltage	2021	120	V	Undervoltage	0.99	118.48	NA	1.68%	Undervoltage	0.98	118.03	NA	2.05%	Undervoltage	0.98	17.76	NA	2.27%
GNA_3_Voltage	Northern	Humboldt	Garberville 1102	192221102	Line Section	Voltage	2021	120	V	Undervoltage	0.83	100.00	NA	17.01%	Undervoltage	0.83	100.00	NA	17.01%	Undervoltage	0.83	100.00	NA	17.01%