

# PG&E'S 2022 DISTRIBUTION DEFERRAL OPPORTUNITY REPORT



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# Executive Summary

Pacific Gas and Electric Company (PG&E) hereby submits its 2022 Distribution Deferral Opportunity Report (DDOR) 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 DDOR is submitted to the Commission, along with PG&E's 2022 Grid Needs Assessment (GNA) Report, to comply with D.18-02-004 and D.21-02-006. Additional grid needs resulting from line section analysis, primarily Voltage Support and Distribution Capacity, will be provided as a supplemental filing on October 17, 2022, as approved in the June 16<sup>th</sup>, 2022, ALJ Ruling. The corresponding line section grid needs, and planned investments data will be published on the DRP Data portal by Oct 30<sup>th</sup>, 2022.

This 2022 DDOR builds off PG&E's 2022 GNA Report and identifies candidate distribution deferral opportunities for consideration of solicitations<sup>1</sup> for cost-effective Distributed Energy Resource (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 – Mitigation of Grid Needs Identified in PG&E's 2022 GNA Report
- Section 3 – Planned Investments
- Section 4 – Candidate Deferral Opportunities
- Section 5 – DER Distribution Service Requirements
- Section 6 – Project Costs
- Section 7 – Prioritization Metrics
- Section 8 – Candidate Deferral Opportunities Prioritization
- Section 9 – Partnership Pilot
- Section 10 – Standard Offer Contract (SOC) Pilot
- Section 11 – Contingency Plans
- Section 12 – Recommendations and Next Steps

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<sup>1</sup> D.18-02-004 and D. 21-02-006

As part of this report, PG&E has identified 18 Candidate Deferral Opportunities (totaling approximately 400 megawatts MW), which are further categorized and prioritized into three tiers. The following table summarizes PG&E's 2022 DDOR Candidate Deferral Opportunities including location, targeted In-Service Date, minimum grid capacity needed (i.e., deficiency), and initially recommended sourcing mechanism.

**PG&E's 2022 DDOR Candidate Deferral Opportunities Summary**

Tier	DDOR ID	Candidate Deferral	In-Service Date	Deficiency (MW)	Sourcing Mechanism*
Tier 1	DDOR109	Blackwell Bank 1	6/1/2025	CC	Standard Offer Contract (SOC)
Tier 1	DDOR1001	Camden 1106	5/31/2025	CC	DIDF RFO
Tier 1	DDOR1007	Carlotta Bank 2	5/31/2025	2.0	Partnership Pilot (PP)
Tier 1	DDOR079	Gabilan Bank 2	5/1/2025	CC	Partnership Pilot (PP)
Tier 1	DDOR1008	Old River Bank 2	5/31/2025	CC	DIDF RFO
Tier 1	DDOR1005	San Joaquin Bank 2	5/31/2025	CC	DIDF RFO
Tier 1	DDOR066	Vasona 1109	6/1/2025	CC	Partnership Pilot (PP)
Tier 2	DDOR1029	7th Standard Bank 2	5/1/2025	CC	Not recommended
Tier 2	DDOR1030	Famoso Bank 1	5/1/2025	CC	Not recommended
Tier 2	DDOR1027	Millbrae Substation	5/2/2025	CC	Not recommended
Tier 3	DDOR091	Chualar Bank 1	5/1/2025	CC	Not recommended
Tier 3	DDOR105	Lockeford Bank 5	5/1/2025	CC	Not recommended
Tier 3	DDOR102	Montague Bank 2	5/1/2025	CC	Not recommended
Tier 3	DDOR1026	Ravenswood Substation	4/1/2025	72.5	Not recommended
Tier 3	DDOR1031	Semitropic Bank 4	5/1/2025	CC	Not recommended
Tier 3	DDOR1032	Tevis Bank 1	5/1/2025	CC	Not recommended
Tier 3	DDOR1034	Tulucay Bank 4	5/31/2025	CC	Not recommended
Tier 3	DDOR1033	Weber Bank 7	5/1/2025	CC	Not recommended

Note: \*Initially recommended DER Sourcing mechanisms  
 DIDF RFO - Distribution Investment Deferral Third party RFO competitive solicitations  
 SOC pilot - Standard Offer Contract (SOC) pilot  
 Partnership Pilot

PG&E will launch a competitive solicitation via a September 15, 2022, RFO for 3 Tier 1 Candidate Deferral Opportunities, as listed below:

- Camden 1106
- Old River Bank 2
- San Joaquin Bank 2

PG&E will also launch a Standard Offer Contract (SOC) Pilot for one Candidate Deferral Opportunity on September 15, 2022. The recommended Candidate Deferral Opportunities for the Standard Offer Contract is listed below:

- Blackwell Bank 1

Additionally, PG&E is recommending 3 Candidate Deferral Opportunities for the first Tranche for the Partnership Pilot. The Candidate Deferral Opportunities recommended for the Partnership Pilot will be discussed at the September 2022 DPAG. On November 15, 2022, PG&E will file a Pilot Advice Letter requesting authorization to launch the subscription period with final cost caps. The recommended Candidate Deferral Opportunities for the Partnership Pilot are listed below:

- Gabilan Bank 2
- Carlotta Bank 2
- Vasona 1109

PG&E does not recommend pursuing the remaining Tier 2 and 3 Candidate Deferral Opportunities at this time due to their low likelihood of achieving a successful outcome. However, these Candidate Deferral Opportunities will be discussed at upcoming Distribution Planning Advisory Group (DPAG) Meetings.

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## 1. Distribution Resources Plan Objectives and Background

On August 14, 2014, the Commission instituted Rulemaking 14-08-013 to establish policies, procedures, and rules to guide the California investor-owned utilities (IOU) in developing their 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 DERs 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.

In February 2018 the Commission issued 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 GNA by June 1 of each year, and a DDOR by September 1 of each year.<sup>2</sup> The DDOR presents a report of the IOUs' Planned Investments that provide one or more of the four distribution services adopted by D.16-12-036: capacity, voltage support, reliability (back-tie) and resiliency (microgrid).

In May 2019, the assigned 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.<sup>3</sup>

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 approve 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 cap, changes to how Locational Net Benefit Analysis (LNBA) data is presented, and recommendations for potential 2020-2021 DIDF cycle reforms.

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<sup>2</sup> D.18-02-004 O.P. 2.d.

<sup>3</sup> May 7, 2019 Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework Process, p. 9. (August 15, 2021 falls on a weekend, therefore PG&E's 2021 GNA/DDOR was filed on the following Monday, August 16, 2021).



In June 2021<sup>4</sup>, the assigned ALJ issued a ruling on recommended reforms to the DIDF process and addressed alignment with requirements adopted by Decision D. 21-02-006. Specifically, the ruling introduced eight new reforms and amended eight reforms. As a result of this ruling, the Partnership and SOC Pilots will align within the current DIDF process and are subject to DIDF reforms while pilots are active.

In November 2021, the Order Instituting Rulemaking to Modernize the Electric Grid for a High Distributed Energy Resources Future (R.21-06-017) was filed to replace the 2014 Distribution Resource Plan and now stands as the OIR home for GNA and DDOR compliance.

In June 2022,<sup>5</sup> the assigned ALJ issued a ruling on recommended reforms for the DIDF process, the Partnership and SOC Pilots.

This report fulfills the requirements associated with the DDOR that are not subject to Commission approval, as determined by D.18-02-004.<sup>6</sup> This report will be provided to the DPAG for review and comment.

### 1.1. Objectives of the Distribution Deferral Opportunity Report

The main objective of the DDOR is to utilize the GNA to identify PG&E's candidate distribution deferral opportunities shortlist. In addition, the DDOR aims to provide transparency into the assumptions and results of the distribution resources planning process that yield the DDOR candidate shortlist and provide the associated DER attributes required to meet these opportunities.

PG&E notes that the information in this DDOR represents PG&E's best information currently available on its electric distribution system,<sup>7</sup> and is subject to change, including updates based on changes in system forecast and local loads, priorities for emergent work on electric distribution facilities, and the results of PG&E's rate cases, including the 2023 General Rate Case (GRC).

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<sup>4</sup> June 21, 2021, Administrative Law Judge's Ruling on recommended reforms for the Distribution Investment Deferral Framework Process

<sup>5</sup> June 16, 2022, Administrative Law Judge's ruling on recommended reforms for the Distribution Investment Deferral Framework process, the Partnership Pilot, and the Standard-Offer-Contract Pilot

<sup>6</sup> Additional Grid Needs and associated Planned Investments resulting from line section analysis will be provided as a supplemental filing on October 17, 2022

<sup>7</sup> Data presented in PG&E's 2022 GNA and DDOR is determined on February 1st, 2022 for Distribution Forecast Data; March 1st, 2022 for Grid Needs Data; and April 1st, 2022 for Planned Investments.

## 1.2. Regulatory Timelines Associated with DDOR

PG&E's DDOR is required to be filed by August 15 of each year, concurrent with the GNA, and is provided to the DPAG<sup>8</sup> for advisory input.

The regulatory timelines for the 2022/2023 DIDF cycle (Pre-DPAG, DPAG and Post DPAG activities) associated with GNA, DDOR, Competitive Solicitations, and Pilots were specified in the Attachment A of the June 2022 ALJ Ruling<sup>9</sup> and summarized in Table 1.

**Table 1. DPAG Schedule for 2022-2023 DIDF Cycle**

Activity	Date <sup>10</sup>
<ul style="list-style-type: none"><li>• Utility GNA/DDOR filings</li><li>• Final IPE Plans circulated</li></ul>	August 15, 2022,
Utilities update DRP Data Portals with GNA/DDOR data	August 30, 2022
IPE Preliminary Analysis of GNA/DDOR data adequacy circulated	September 5, 2022
<ul style="list-style-type: none"><li>• Utilities launch RFOs and SOC pilot (SOC bids due no sooner than 75 days after launch or November 30, 2022)</li><li>• Utilities update Participation Pilot website with prescreened aggregator contact information</li></ul>	September 15, 2022
Participants provide questions and comments to Utilities and IPE	September 25, 2022
DPAG meetings with each Utility	Mid to Late September 2022
Utility responses to questions	October 5, 2022
<ul style="list-style-type: none"><li>• Follow-up Utility meetings via webinar</li><li>• Optional due date for line section data supplement to GNA/DDOR (October 15, 2022)</li></ul>	Week of October 15, 2022
IPE DPAG Reports	October 25, 2022
Tier 2 Advice Letters: <ul style="list-style-type: none"><li>• (1) Approval to launch subscription periods for Partnership Pilot. If applicable, also to seek approval to launch RFOs or SOCs for planned investments elevated to Tier One candidate deferral opportunities during the DPAG</li></ul>	November 15, 2022

<sup>8</sup> As described in D.18-02-004, the DPAG is a distribution planning stakeholder group that provides advisory input on which distribution deferral opportunities should be pursued through competitive solicitation of DER non-wire's solutions.

<sup>9</sup> June 16, 2022, Administrative Law Judge's ruling on recommended reforms for the Distribution Investment Deferral Framework process, the Partnership Pilot, and the Standard-Offer-Contract Pilot

<sup>10</sup> Where dates fall on a weekend or holiday, the activity is intended to occur/be due on the following business day. With advance notice to the service list, activities and dates may be altered by Energy Division based on comments received during DPAG activities or as needed. The calendar is not exhaustive of all dates of DPAG activities. This schedule is intended to cover most DPAG dates and activities, especially those expected to recur each DIDF cycle.

<ul style="list-style-type: none"> <li>• (2) Approval not to launch RFOs, SOC, or Partnership Pilots for any remaining planned investments or candidate deferral opportunities identified in the GNA/DDOR filings, by DPAG stakeholders, by or Energy Division</li> </ul> <p>Procurement Status: Utilities submit DIDF Procurement Status Report to Energy Division, IPE, and IEs (every 6 months)</p>	
Utilities provide draft second round RFO or SOC launch materials to Energy Division for approval in consultation with IPE and IE (if second round needed)	December 10, 2022
<ul style="list-style-type: none"> <li>• Utilities launch second round of RFOs or SOC for DERs (if needed pursuant to the DIDF Advice Letter outcomes)</li> <li>• IOUs launch Partnership Pilot subscription periods</li> </ul>	January 15, 2023 (or within 30 days of DIDF Advice Letter approval if approval is after December 15, 2022)
Utility Presentation to Procurement Review Group of Project Shortlist for first-round RFO and SOC If second round (2022) RFO occurs, Procurement Review Group presentation occurs within 5 months of approval to launch the second RFO	January 2023
Information-Only submittal notification of executed contracts for first round (2022) RFO and SOC solicitations Note: If second round (2023) RFO or SOC occurs, Information-Only submittals are due within 6 months of approval to launch RFO or SOC	February 15, 2023
Partnership Pilot websites updated advertising subscription period launch, and notices availability of procurement tranches	February 15, 2023 (or within 30 days of subscription period launch)
<ul style="list-style-type: none"> <li>• Utility Annual Partnership Pilot Evaluation Reports</li> <li>• IE DIDF RFO/SOC Reports</li> <li>• IPE Post-DPAG Report (covering all three IOUs)</li> </ul> <p>Note: If second round (2023) RFO or SOC occurs, IE DIDF RFO/SOC Report is due within 60 days of RFO contract execution or RFO completion without contracts</p>	March 15, 2023
IE Annual Partnership Pilot Evaluation Reports	March 25, 2023
Annual DIDF and Pilot reform comments (also on SOC Midstream Evaluation)	April 1, 2023
Annual DIDF and Pilot reform reply comments (also on SOC Midstream Evaluation)	April 15, 2023
DIDF and Pilots Reform Ruling (also on SOC Midstream Evaluation)	May 2023

### 1.3. Distribution Investment Deferral Framework Process

Figure 1 illustrates the Distribution Investment Deferral Process. The process acts as a funnel to identify candidate deferral projects, based on the grid needs identified in the GNA.<sup>11</sup>

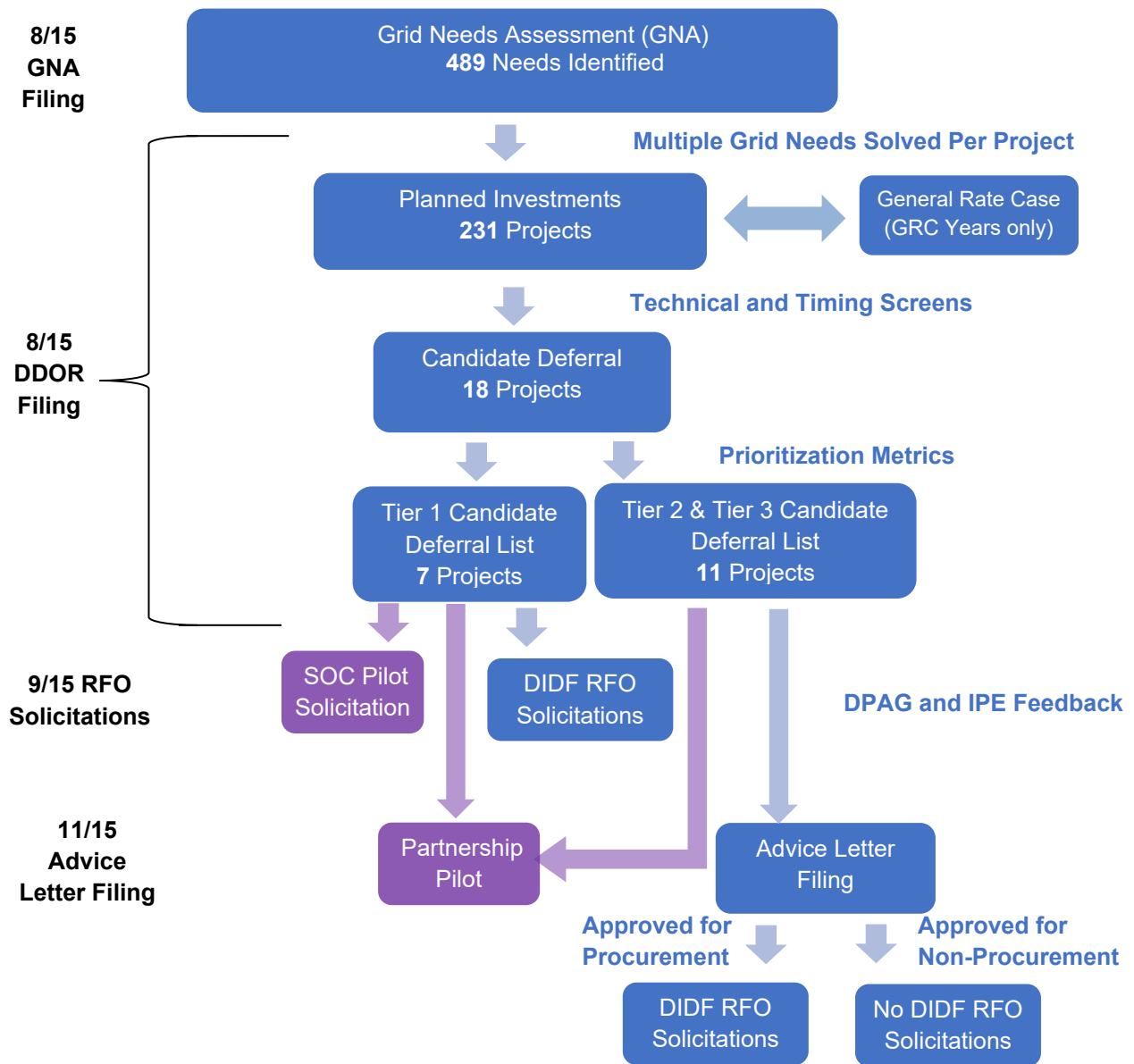


Figure 1. Illustration of Process to Identify Candidate Deferral Opportunities.

### 1.4. Summary of PG&E's 2022 GNA Report

PG&E's 2022 GNA report presents the assumptions and results of the distribution planning process that yield the grid needs to accommodate forecast DER growth. The

<sup>11</sup> Per the June 16, 2022 ALJ Ruling on DIDF Reforms, PG&E's 2022 DDOR reflects its most recent distribution planning process. Therefore, PG&E's 2022 DDOR is not filed in a GRC year, as PG&E's most recent GRC was filed in 2021.

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 Ruling,<sup>12</sup> the May 2020 ALJ Ruling,<sup>13</sup> and June 2021 ALJ Ruling.<sup>14</sup> The 2022 GNA includes substation/bank, feeder, and line section needs. 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.1612036, which are distribution capacity, voltage support, reliability (back-tie) and resiliency (microgrid).

PG&E's 2022 GNA filing identified 489 grid needs. The grid needs for the 2022 GNA included substation, feeder, and line section needs.<sup>15</sup> The GNA identified distribution capacity, reliability (back-tie), voltage, and resiliency (microgrid) needs.<sup>16</sup> PG&E's 2022 GNA load forecast includes the impact of future planned load transfers and circuit reconfigurations that do not require a capacity project. Therefore, PG&E's 2022 GNA only includes identified grid needs that cannot be mitigated via distribution switching and load transfers that do not require a capacity project.

### 1.5. Customer Confidentiality and Critical Energy Infrastructure Information

To respect and protect customer privacy, PG&E follows aggregation and anonymization rules. Areas that do not meet these requirements are redacted in both the public version of the GNA Report and the public version of the DDOR report.<sup>17</sup>

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<sup>12</sup> May 7, 2019 Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework Process, p. A1-A2.

<sup>13</sup> May 11, 2020 Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework Attachment A (subsequently revised on June 12, 2020), — Filing and Process Requirements, Attachment A, p. 89-98.

<sup>14</sup> June 21, 2021, Administrative Law Judge's Ruling on recommended reforms for the Distribution Investment Deferral Framework Process.

<sup>15</sup> Additional grid needs resulting from line section analysis will be provided as a supplemental filing on October 17, 2022.

<sup>16</sup> Additional grid needs resulting from line section analysis, primarily Voltage Support and Distribution Capacity, will be provided as a supplemental filing on October 17, 2022.

<sup>17</sup> Redacted data is marked "CUSTOMER CONFIDENTIAL" or "CC" or Grey Shaded where data violates the 15-15 customer privacy rule. A 15-15 violation occurs if the load is comprised of less than 15 customers or a single customer contributes to more than 15% of the loading value.

## 2. Mitigation of Grid Needs Identified in PG&E's 2022 GNA Report

PG&E's 2022 GNA Report is the basis for the Planned Investments and Candidate Deferral Opportunities included in this report. The GNA identified 489 needs across the PG&E service territory. These grid needs are monitored or mitigated by Planned Investments. A single Planned Investment may mitigate multiple grid needs that are identified in the GNA. Figure 1 summarizes how the grid needs identified in PG&E's 2022 GNA Report are used to identify Planned Investments and Candidate Deferral Opportunities in this report.

PG&E has presented all grid needs separately for the purpose of identifying Planned Investment and Candidate Deferral projects and applying the Prioritization Metrics to determine which projects to include in the DIDF solicitations, as shown in Appendices A, B and C. For those Planned Investments and Candidate Deferral Opportunities for which grid needs were identified that could be combined (e.g., a capacity need on a bank and on an interconnected feeder), PG&E has listed the needs separately in the 2022 DDOR.<sup>18</sup>

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<sup>18</sup> May 11, 2020 Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework, Attachment A (subsequently revised on June 12, 2020), — Grid Needs and Deferral Screens, DIDF Reform #12. p. 91

### 3. Planned Investments

As described in PG&E's 2022 GNA, there are 489 grid needs identified in the 2022 GNA Report that are mitigated by substation, feeder, and line section Planned Investments. Appendix A shows the resulting Planned Investments.

#### 3.1. Summary of Planned Investments

In total, there are 231 substation, feeder, and distribution line section Planned Investments that mitigate the 418 grid needs, because one Planned Investment may mitigate several grid needs.<sup>19</sup> Table 2 summarizes the Planned Investments by project type and by Distribution Planning Region. The Planned Investments consist of substation projects (e.g., banks), feeders, and distribution line section projects (e.g., installation of switches). The Planned Investments are located throughout the Bay Area, Central Valley, North Coast, North Valley and Sierra, and South Bay and Central Coast Distribution Planning Regions.

Table 3 summarizes the Planned Investments by Distribution Service.<sup>20</sup> The majority of Planned Investments are for Distribution Capacity. Table 4 summarizes the Planned Investments by In-Service Date. 213 Planned Investments have an In-Service Date within the next three years, and 18 Planned Investments have an In-Service Date of 2025 or later. All line section Planned Investments have In-Service Dates within the next three years, because PG&E identifies needs for line section and Voltage Support needs for a three-year period.<sup>21</sup>

Table 5 and Table 6 summarize the Planned Investments by Locational Net Benefits Analysis ("LNBA") range. The methodology used in calculating the LNBA range is included in Section 6.2.

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<sup>19</sup> PG&E is using CEC's DER growth forecast in its distribution planning. Grid needs are monitored or mitigated by Planned Investments.

<sup>20</sup> Planned Investments that are meeting both a Distribution Capacity Need and a Voltage Support or Reliability (Back-Tie) or Resiliency (Microgrid) Need are classified as Distribution Capacity for the purposes of this table.

<sup>21</sup> May 7, 2019 Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework Process, p. 6

**Table 2. Summary of Planned Investments by Distribution Planning Region and by Project Type\***

Distribution Planning Region	Project Type				Total
	Substation/ Bank	Bank and Feeder	Feeder	Distribution Line	
Bay Area	3	4	30	13	50
Central Valley	9	18	37	37	101
North Coast	2	4	4	6	16
North Valley and Sierra	4	5	5	16	30
South Bay and Central Coast	3	7	10	14	34
<b>Totals</b>	<b>21</b>	<b>38</b>	<b>86</b>	<b>86</b>	<b>231</b>

\*Additional Grid Needs and associated Planned Investments resulting from line section analysis will be provided as a supplemental filing on October 17, 2022

**Table 3. Summary of Planned Investments by Distribution Service\***

Distribution Service			Total
Capacity	Reliability	Resiliency	
205	14	12	231

\*Additional Grid Needs and associated Planned Investments resulting from line section analysis will be provided as a supplemental filing on October 17, 2022

**Table 4. Summary of Planned Investments by In-Service Date**

In-Service Date					Total
2022	2023	2024	2025	2026	
97	75	41	18	0	231

**Table 5. Summary of Planned Investments by LNBA Range (\$/kW-yr)**

LNBA Range (\$/kW-yr)					Total
\$0-\$50	\$50-\$100	\$100-\$200	\$200-500	>\$500	
124	48	26	18	15	231

**Table 6. Summary of Planned Investments by LNBA Range (\$/Vpu-yr)**

LNBA Range (\$/Vpu-yr)			Total
>\$3M	>\$20M	>\$30M	
0	0	0	0

### 3.2. DER Solutions Planned for IOU Ownership for Planned Investments

PG&E does not have any DER solutions planned for IOU ownership for PG&E's list of Planned Investments in PG&E's 2022 DDOR. PG&E sought bids for IOU ownership for DDOR109 (Blackwell Bank 1) during its 2020-2021 DIDF RFO cycle, although no cost-



effective bids were received. PG&E has no other IOU-owned DER solutions listed in the Planned Investment list because PG&E does not currently have any other plans to own any DER solutions that would defer any of the listed Planned Investments that meet one of the four services as adopted in D.18-02-004.<sup>22</sup> PG&E encourages bids for all forms of resource ownership (e.g., utility-owned, third-party owned, customer-owned, joint ownership) in their DIDF RFOs, allowing for bid participation and evaluation without any bias towards a specific ownership model. As stated in PG&E's Opening Comments to the 2020 DIDF Improvements Ruling,<sup>23</sup> whether a Candidate Deferral Opportunities is suitable for consideration of IOU ownership depends on the specific characteristics of the location (e.g., land, interconnection, etc.). To facilitate IOU ownership more broadly, PG&E recommends re-examination of cost recovery and cost allocation (see Section 12.2).

### 3.3. Planned Investments for DER-Driven Needs

Within the four distribution service types, PG&E has two Planned Investments for a DER driven Capacity need, Blackwell Bank 1 and Huron Bank 1. The Blackwell Bank 1 Planned Investment is a replacement of Blackwell Bank 1 due to backflow caused by photovoltaic (PV) generation on the distribution grid. The Huron Bank 1 Planned Investment is a replacement of Huron Bank 1 with a 30 MVA transformer due to backflow cause by PV generation on the distribution grid. The Blackwell Bank 1 Planned Investment is a non-DER solution and was evaluated as a Candidate Deferral Opportunity in PG&E's 2020 DDOR. PG&E sought bids for IOU ownership for Blackwell Bank 1 during its 2020-2021 DIDF RFO cycle, although no cost-effective bids were received. The Blackwell Bank 1 Planned Investment was also re-evaluated as a Candidate Deferral Opportunity in PG&E's 2021 DDOR, although was not recommended for DER solicitation. Blackwell Bank 1 is again evaluated as a Candidate Deferral Opportunity in PG&E's 2022 DDOR and is recommended for solicitation via the SOC Pilot (Section 10). For the Huron Bank 1 Planned Investment, PG&E solicited, contracted, and received approval for a DER solution to address the DER-driven needs.<sup>24</sup> The DER contract for the deferral of Huron Bank 1 was terminated on September 15, 2020, and the contingency plan was implemented. The approved contingency plan for Huron Bank 1 considered both DER solutions, if possible, and non-DER solutions (see Section 11).

Regarding equipment necessary to integrate DERs with the grid that could feasibly be owned by a third party, after several years of development as part of the EPIC 3.03

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<sup>22</sup> Example programs where PG&E is considering the use of DERs are included in Section 4.4 of the GNA.

<sup>23</sup> PG&E, Opening Comments of PG&E on Administrative Law Judge's Ruling on Possible Improvements to the 2020 Distribution Investment Deferral Framework Process, filed January 17, 2020, p. 19

<sup>24</sup> PG&E AL 5707-E

DER Headend Project, PG&E announced the deployment of a Customer-Owned Telemetry (COT) option for Distribution Interconnection Customers with generation systems that are 1MW or greater to fulfill their mandated telemetry requirement. The cost of telemetry has long been flagged by the solar industry (and the CPUC) as a barrier to DER adoption and this new COT solution greatly decreases the costs for customers to fulfill their telemetry requirements. PG&E's DER Headend Server utilizes the IEEE 2030.5 protocol to communicate with DERs and customers can choose between 2 gateway vendors that have undergone extensive interoperability testing with PG&E (2 additional aggregators are currently undergoing testing). More information about the solution and the process to integrate new COT onto the system can be found on PG&E's Distribution Interconnection Handbook website.<sup>25</sup>

### 3.4. Pre-Application and Post-Application Projects

There are neither Pre-Application Projects nor Post-Application Projects in PG&E's Planned Investment or Candidate Deferral Opportunities List for the 2022 DDOR. PG&E has no projects that are expected to require General Order 131-D compliance within the 10-year planning horizon and that currently have Planned Investments for sub-transmission or distribution components. PG&E does have one Distribution Grid Need identified in its 2022 GNA that will be mitigated by the transmission components

### 3.5. Status of Pre-Application and Post-Application Projects

PG&E currently has no Pre-Application Projects or Post-Application Projects that have Planned Investments for sub-transmission or distribution components within the 10-year forecast horizon.<sup>26</sup>

### 3.6. DER Solutions Planned from Prior DIDF Solicitations

PG&E had three Candidate Deferral Opportunities (Mormon Bank 2, Lakeview 1110, and Saratoga 1102) that were solicited in the 2021 DIDF RFO and for which it is currently negotiating contracts for DERs. In addition, PG&E has four Candidate Deferral Opportunities (Anita 1105, Rocklin 1105, Embarcadero 1116, and Embarcadero 1118) for which it has an open Subscription Period for Tranche 1 of the 2021 Partnership Pilot (see Section 9.5). As these projects already have open solicitations for DERs, they are not included as Planned Investments in PG&E's 2022 DDOR.

## 4. Candidate Deferral Opportunities

As illustrated in Figure 1, the application of screens to the Planned Investments list (Appendix A) results in the identification of the Candidate Deferral Opportunities.

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<sup>25</sup> [https://www.pge.com/en\\_US/large-business/services/alternatives-to-pge/distribution-handbook.page](https://www.pge.com/en_US/large-business/services/alternatives-to-pge/distribution-handbook.page)

<sup>26</sup> May 11, 2020 Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework, Attachment A (subsequently revised on June 12, 2020), — Pre-Application Projects - Reform # 37

D.18-02-004 requires the application of two screens: (1) technical screen and (2) timing screen. These two screens are further described in the following sections.

#### 4.1. Technical Screen

The purpose of the Technical Screen is to identify the Distribution Services that DERs can provide to potentially defer a distribution project. The following definitions for the key distribution services that DERs can provide were adopted by D.16-12-036, 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.
- 4) Resiliency (microgrid) services are load-modifying or supply services capable of improving local distribution reliability and/or resiliency. This service provides a fast reconnection and availability of excess reserves to reduce demand when restoring customers during abnormal configurations.

The technical screen was applied to the 2022 GNA, upon which this report is based. The needs and Planned Investments identified in PG&E's 2022 GNA and DDOR are limited to the four Distribution Services listed above. PG&E's 2022 GNA and DDOR include substation, feeder, and line section needs and Planned Investments.

#### 4.2. Timing Screen

The purpose of the Timing Screen is to ensure that cost-effective DER solutions can be procured with sufficient time to fully deploy and begin commercial operation in advance of the forecast need date. For this year, PG&E is using the Competitive Solicitation Framework and a 2025 or later In-Service Date which is considered adequate time for DER developers to design, develop, market and deploy the DER solution as well as to minimize the cost of providing for a contingency plan should the DER procurement be unsuccessful. As shown in Table 4 and Table 9, 213 out of 231 projects were filtered out of the Planned Investments list using the timing screen.

### 4.3. Summary of Candidate Deferral Opportunities

The application of the timing and technical screens results in 18 Candidate Deferral Opportunities, as shown in Appendix B. Table 7 summarizes the Candidate Deferral Opportunities by Project Type and by Distribution Planning Region. Table 8 summarizes the Candidate Deferral Opportunities by Distribution Service. The majority of the Candidate Deferral Opportunities are Substation (Bank) and Feeder projects for Distribution Capacity service. Table 9 summarizes the Candidate Deferral Opportunities by In-Service Date. Due to the application of the timing screen, all Candidate Deferral Opportunities have an In-Service Date of 2025 or later. Table 10 summarizes the Candidate Deferral Opportunities by LNBA Range. The methodology used in calculating the LNBA range is included in Section 6.2.

**Table 7. Summary of Candidate Deferral Opportunities by Project Type and Distribution Planning Region**

Distribution Planning Region	Project Type				Total
	Substation / Bank	Bank and Feeder	Feeder	Distribution Line	
Bay Area	0	2	0	0	2
Central Valley	2	7	1	0	10
North Coast	1	0	0	0	1
North Valley and Sierra	0	1	0	0	1
South Bay and Central Coast	1	2	0	1	4
Totals	4	12	1	1	18

**Table 8. Summary of Candidate Deferral Opportunities by Distribution Service**

Distribution Service				Total
Distribution Capacity	Voltage Support	Reliability (Back-Tie)	Resiliency	
17	0	0	1	18

**Table 9. Summary of Candidate Deferral Opportunities by In-Service Date**

In-Service Date					Total
2022	2023	2024	2025	2026	
0	0	0	18	0	18

**Table 10. Summary of Candidate Deferral Opportunities by LNBA Range**

LNBA Range (\$/kW-yr)					Total
\$0-\$50	\$50-\$100	\$100-\$200	\$200-500	>\$500	
4	6	5	3	0	18

## 5. DER Distribution Service Requirements

For each of the Candidate Deferral Opportunities listed in Appendix B, the DER Service Requirements were defined for each grid need. Since each Candidate Deferral Opportunity may mitigate one or more grid needs, there may be one or more sets of DER Service Requirements for a given Candidate Deferral Opportunity. All the DER Service Requirements for a given Candidate Deferral Opportunity are necessary to defer the investment.

The following annual DER Service Requirements were determined for each grid need: months required, number of calls per year, estimated hours of need, and maximum duration (hours) per call of required DER distribution service.<sup>27</sup> To determine these requirements, PG&E evaluated the forecast peak load on each facility over the span of one year, using a 576-hour load profile<sup>28</sup> to determine when the overloads occur. The basis for the DER distribution service requirements was determined from the highest overload for the period from the In-Service Date until the end of the 10-year forecast horizon.<sup>29</sup> Therefore, the distribution service requirement may be based on a later year than identified need year included in the GNA, which used a 5-year forecast as the study horizon for identifying grid needs. The need included in the Planned Investments (Appendix A) will also be based on a 10-year forecast.<sup>30</sup> Using the 576-hour load profile, PG&E calculated the months, the number of days in the year, and the timespan and duration in which the electric facility is projected to overload or require the distribution service. Load transfers associated with new capital upgrade projects are excluded to ensure consistency between projects since some of these load transfers require part of the project to be completed.

For the Candidate Deferral Opportunities with reliability needs, PG&E identified operational requirements that include Real Time (RT) dispatch capability (i.e., within 5 minutes<sup>31</sup>) for the DERs to defer the project. These reliability needs are driven by the need to reduce the impact of outages; therefore, the need could arise at any time during the year. For Candidate Deferral Opportunities where there is an existing back-tie with a

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<sup>27</sup> The DER service requirements are listed individually and are not combined for a Candidate Deferral Opportunity. PG&E will review with the DPAG Candidate Deferral Opportunities where the same operational requirements could meet several grid needs.

<sup>28</sup> The 576-hour profile is generated in LoadSEER. This is organized by Month, Hour, and Weekday vs Weekend to determine DER distribution service requirements.

<sup>29</sup> DER Service Requirements for the Tranches for the Partnership Pilots are separately described in Section 9.

<sup>30</sup> Planned Investments needs that do not make it to the Candidate Deferral list may be based on a different planning horizon (i.e., line section Capacity and Voltage needs will be based on a 3-year planning horizon, Reliability needs will be based on a 5-year planning horizon).

<sup>31</sup> Dispatch time may vary depending on location and availability of Supervisory Control and Data Acquisition (SCADA).

capacity constraint, the operational requirements entail RT dispatch of capacity to enable the remaining load to be transferred to the back-tie. For Candidate Deferral Opportunities where there is no existing back-tie (and where the Planned Investment is to install a new back-tie or mainline loop), the operational requirements entail RT dispatch of capacity and the ability to balance the load in an islanded state (i.e., operate as a microgrid).

For PG&E's 2022 DDOR, PG&E identified 2 Candidate Deferral Opportunities (Lockeford Bank 1, and Montague Bank 2) which has Resiliency (microgrid) needs that require RT dispatch and islanding capability.<sup>32</sup>

The Lockeford Bank 1 Planned Investment is needed in case of an emergency bank loss deficiency on Lockeford Bank 1. In the event of the loss of Lockeford Bank 1, loads above 10 MW on this bank that cannot be transferred to adjacent transformers will remain unserved until Lockeford Bank 1 is replaced. Lockeford Bank 1 was also included in PG&E's 2020 and 2021 DDOR.

Similar to Lockeford Bank 1, Montague Bank 2 project is needed in case of an emergency bank loss deficiency on Montague Bank 3. 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 until Montague Bank 3 is replaced. Therefore, a DER solution for either would require the ability to balance load in an islanded state (i.e., operate as a microgrid). PG&E has thus classified the Lockeford Bank 1 and Montague Bank 2 Candidate Deferral Opportunities as Resiliency (microgrid) projects in the 2021 DDOR, because the DER solution to defer the associated Candidate Deferral Opportunity (Montague Bank 2 and Lockeford Bank 1) would require a microgrid.

### 5.1. Operational Requirements

Utilities use standard equipment sizes that have been identified to provide cost-effective service to its customers. Generally, these standard equipment sizes reduce engineering design, equipment maintenance and spare equipment costs. When a system deficiency is mitigated, standard equipment sizes are used, which normally provides additional capacity to the system beyond the identified need. This additional capacity provides the ability to maintain loading and voltage requirements as well as the ability to transfer load for planned and emergency situations. This ability to operate the system on an on-going basis is often called operational flexibility. Distribution planning projects typically add capacity in increments based on a standard bank or feeder size, rather than sizing exactly to the grid need.

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<sup>32</sup> Montague Bank 2 has both Distribution Capacity and Resiliency (Microgrid) needs and is categorized as Distribution Capacity in Table 8.



The identified Planned Investments also provide operational flexibility beyond meeting the identified Grid Need. For example, a transformer is available all hours, and load can be transferred to the bank from other feeders or banks as needed to provide additional operational flexibility. In contrast, the DER Service Requirements only specify the hours of the grid need.

While the DER Service Requirement would potentially defer the Planned Investment, it does not provide any margin for load forecast uncertainty and does not allow for new customer load interconnections larger than the service requirement amount. If the grid need were to increase, the DER Service Requirement would no longer be sufficient, and the project would not be deferred. In addition, new load applications for service would likely be delayed while additional DERs were contracted, or capacity projects were built. Alternatively, introducing a margin for the DER Service Requirement, while increasing the likelihood of deferral, would increase the difficulty of procurement or ability to interconnect cost effectively. PG&E is not including any margin in the DER Service Requirement in this DDOR. Therefore, even if resources are procured to meet the exact DER Service Requirement, the Planned Investment may still be required if the load forecast changes, and the grid need is no longer met by the procured resources. The Partnership Pilot is testing Ratable Procurement with annual Tranches, as described in Section 9, to potentially reduce the risk that the DER Service Requirement is not sufficient to defer the Planned Investment for the term of the contract.

## 6. Project Costs

### 6.1. Unit Costs

The estimated cost accuracy of a project is based on the stage of project development. For projects in early stages of development, costs are estimated using either estimates of specific equipment and Unit Costs for work required, or historical costs from completed projects. As the project develops and scope details become defined, the estimated project costs are adjusted based upon the detailed scope of work. Differences between the Unit Costs shown in Appendix B and the costs in a GRC are generally due to:

- A GRC has a limited time window. Some projects are expected to have significant costs that occur outside of this window.
- A GRC includes escalated cost estimates. Unit Costs are usually a fixed time value and are not escalated.

Both the GRC costs and the costs listed in the DDOR report are reflective of the distribution component of project costs. Related transmission upgrade costs are not included in the GRC or the DDOR. The Unit Cost uncertainty level corresponding to the

American Association of Cost Engineers (AACE) level for each Candidate Deferral Opportunity is included in the DDOR spreadsheet.<sup>33</sup>

The Unit Costs applied to Prioritization Metric calculations include all deferrable (unspent) distribution costs, including regulatory and permitting costs and reflect the latest, most accurate information at the time of filing. The Unit Costs used for the calculation of the LNBA for Planned Investments that are screened out (and thus not prioritized as Candidate Deferral Opportunities) are based on the total Unit Cost rather than the deferrable (unspent costs). As these near term Planned Investments are often well underway in their design, procurement, and construction, the remaining Deferral Value would only be a fraction of the LNBA value.

## 6.2. Locational Net Benefits Analysis (LNBA)

The LNBA values (Appendix D and Appendix E) were calculated using the Energy and Environmental Economics, Inc. ("E3") LNBA tool methodology<sup>34</sup> with the following inputs:

- Unit Cost: See section 6.1 for detailed description. Values are based on 2022 unit costs.
- Discount Rate: PG&E used a 6.77% discount rate. This discount rate is PG&E's after-tax weighted average cost of capital and reflects CPUC authorized cost of equity, cost of debt, and capital structure, as well as current tax rates.
- Revenue Requirement Multiplier: PG&E used a Present Value Revenue Requirement (PVRR) multiplier of 144.31% for replacement of station equipment (substation and bank projects); 150.67% for replacement of poles, towers and fixtures; and 146.77% for replacement of overhead conductors and devices (primary feeder). PG&E used a PVRR multiplier (with Operations and Maintenance (O&M) of 186.50% for new station equipment (substation and bank projects); 310.47% for new poles, towers and fixtures; and 309.06% for new overhead conductors and devices (primary feeder) that includes Operations and Maintenance (O&M) costs.
- Inflation: PG&E used a 2.5% inflation rate.
- O&M Factor: PG&E used an O&M factor of 2.13% for new station equipment (substation and bank projects); 8.18% for new poles, towers and fixtures; and 8.18% for new overhead conductors and devices (primary feeder). The O&M factor is used in the calculation of the PVRR. The PVRR (with O&M) includes this O&M factor and is used in calculating LNBA value for new projects.

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<sup>33</sup> May 11, 2020, Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework, Attachment A (subsequently revised on June 12, 2020), — Cost Effectiveness Metric and Project Cost - Reform # 33, p. 94

<sup>34</sup> E3 LNBA Tool V2.11; <https://e3.sharefile.com/share/view/sb2965cf362c48399>



- Book Life: PG&E used a service life of 46 years for station equipment (substation and bank projects); 44 years for poles, towers and fixtures; and 46 years for new overhead conductors and devices (primary feeder).
- Deferral Time: PG&E used a deferral time frame from the In-Service Date of the Planned Investment until the end of the 10-year forecast horizon,<sup>35</sup> except for line sections, in which case the largest forecast need identified over the forecast horizon of 3 years was used (i.e., peak MW shortfall within the 3-year forecast). The Partnership Pilot deferral time frame for each Tranche is one year, as described in Section 9.3.
- Capacity (MW) of Deferral: PG&E calculated the Capacity (MW) need by taking the difference between the forecasted demand (MW) and the facility rating.<sup>36</sup> A sum of the individual grid needs is used to calculate the LNBA value, assuming each grid need was independent.<sup>37</sup>
- Voltage Service of Deferral: PG&E used the worst-case voltage addressed by any single voltage correction project. A nominal voltage was assumed for each line section.

The approach described here is a preliminary methodology subject to change as LNBA is refined and as the DER requirements for this distribution service are refined with experience. The LNBA values in PG&E's 2022 DDOR include only the Deferral Value from the LNBA tool. To derive the LNBA value, the Deferral Value output from the E3 tool was divided by the number of years of deferral (equivalent to the Deferral Time above) and the magnitude of need (MW, VPU).

### 6.3. Distribution Capital Per Customer Metric

Given that PG&E's 2020 GRC was approved, the Distribution Capital per Customer metric<sup>38</sup> is based on the total imputed authorized GRC capital amount in PG&E's most recent GRC filing year (2020) divided by the number of electric meters as a definition of number of customers. The metric only includes distribution capital costs and does not include expense, transmission, or generation. The total GRC distribution capital imputed authorized amount (excluding expense, transmission, and generation) in the 2020 GRC

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<sup>35</sup> May 11, 2020, Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework, Attachment A (subsequently revised on June 12, 2020), — Common Comparable Datasets - Reform # 5, p. 90

<sup>36</sup> For capacity projects where the forecasted demand is less than the facility rating (e.g., where prior forecasts had shown an overload), a Capacity (MW) of deferral of 0 and a LNBA value of 0 was used.

<sup>37</sup> For capacity projects not driven by a thermal capacity overload (e.g., new feeder projects), PG&E used the ratio of the need (e.g., amperage or customer counts) times the capacity of the asset.

<sup>38</sup> D.18-02-004 O.P. 2.ff.

for the year 2020 was \$2,217,676,000. The total number of electric meters in service in 2020 was 5,587,595.

$$\text{Distribution Capital per Customer} = \frac{\$ 2,217,676,000}{5,587,595} = \$396/\text{customer}$$

Therefore, the Distribution Capital per Customer Metric is \$396 per customer.

#### 6.4. Payments Made to DER Projects

In accordance with Order D.18-02-004 paragraph 2.dd, PG&E is to provide itemized data payments made to DER projects versus the estimated traditional spending such deferral projects were able to avoid. To date, PG&E has not made any such payments, and so has no data to report in the 2022 DDOR.

#### 6.5. Value Stacking Opportunities

The potential value stacking opportunities for each candidate deferral include participation in CAISO wholesale energy markets, the provision of Resource Adequacy, provision of ancillary services, management of customer bills (e.g. the reduction of customer demand charges, customer load shifting), and other revenue streams.<sup>39</sup> As PG&E is only procuring the deferral service, each candidate deferral opportunity provides an opportunity for the DER developer to participate in CAISO markets and value stack other revenue streams. The revenue streams will depend on the DER solution (e.g., Behind the Meter storage, In-Front of the Meter storage, Demand Response, etc.). PG&E does not have plans to spend capital for wholesale markets at the specific locations for these candidate deferral opportunities, so there is no additional investment deferral associated with the DER solutions at these locations.

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<sup>39</sup> May 11, 2020 Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework, Attachment A (subsequently revised on June 12, 2020), — Considerations of Value Stacking, DDD Reform #26. p. 93

## 7. Prioritization Metrics

In D.18-02-004, three metrics were adopted to characterize and help prioritize projects on the Candidate Deferral Opportunities shortlist. These metrics are: (a) Cost-Effectiveness, (b) Forecast Certainty, and (c) Market Assessment.

A Prioritization Metrics Workbook Template was developed jointly by the IOUs and was approved by Energy Division on May 18, 2021 and July 7, 2022.<sup>40</sup> The template consists of five quantitative sub-metrics, which are normalized and summed to create an overall score, and four sub-metrics used to flag candidate deferral opportunities that are unlikely to be successful for DER sourcing. The metrics and sub-metrics are described below.

### 7.1. Cost Effectiveness Metrics

Cost Effectiveness metrics are intended to provide a relative indication of how likely DER resources can cost effectively defer a Planned Investment. There are three sub-metrics:

- Location Net Benefit Analysis (LNBA) [\$/ (MW-yr)] is calculated using the Commission approved LNBA methodology, based on the peak capacity needs during the deferral period, and used to create a quantitative Cost Effectiveness Metric score.
- Location Net Benefit Analysis (LNBA) [\$/ (MWh-yr)] is calculated using the Commission approved LNBA methodology, based on the maximum annual energy needs during the deferral period, and used to create a quantitative Cost Effectiveness Metric score.
- Unit Cost of Traditional Mitigation [\$] is the cost of the traditional mitigation project designed to meet the maximum grid needs for each project (Section 6.1). Candidate Deferral Opportunities with Unit Costs less than \$1,000,000 are flagged.

The expected DER Service Requirements are used to calculate the MWh of deferral. Lessons learned from prior DIDF RFOs indicate that baseload requirements may be difficult to obtain cost-effectively from DERs. The Independent Evaluator reported, “it may be best for PG&E to target circuit needs for future DRP RFOs that do not have a baseload need” due to high costs of DER solutions to meet baseload needs.<sup>41</sup> For

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<sup>40</sup> May 11, 2020 Administrative Law Judge’s Ruling Modifying the Distribution Investment Deferral Framework, Attachment A (subsequently revised on June 12, 2020), — Prioritization Metrics, DIDF Reform #20. pp.92

<sup>41</sup> Public Independent Evaluator Report, Advice Letter 5259-E, Sedway Consulting, Inc., p. 7, March 26, 2018.

informational purposes, the LNBA/MWh-day<sup>42</sup> value for each Candidate Deferral project is included in PG&E's 2022 workbooks. The MWh-day value is the maximum energy need on the day the peak demand was forecasted.

## 7.2. Forecast Certainty Metric

The Forecast Certainty Metric is intended to give a relative indication of the certainty of the forecasted grid need. The Forecast Certainty Metric<sup>43</sup> consists of the following sub-metrics:

- A Grid Need Certainty rating from the questionnaire filled out by distribution engineers, used to create a quantitative Forecast Certainty Metric score.
- Year of Need (e.g., 2022 versus 2025) identifies the first year of the grid deficiency. Candidate Deferral Opportunities with a Year of Need of 2026 or later are flagged. The operational year (In-Service Date) is provided for reference only.

The questionnaire filled out by distribution engineers (Appendix F) includes questions on several factors that have significant influence on grid need certainty, based on lessons learned from prior DIDF cycles. For example, the age and condition of existing equipment at the facility, the potential for High-Speed Electric Vehicle charging, and the dependence of area capacity on the specific location. The planners may consider the status of development milestones for large commercial, industrial, and agricultural customers seeking new service or expansion of service. PG&E's distribution planners may also consider whether load forecast is particularly uncertain due to agriculture pumping load, which is dependent on water availability and temperature/weather patterns. A quantitative score was used to get the asset health risk score based on the condition of the asset.

## 7.3. Market Assessment Metric

The Market Assessment Metric is intended to give a relative indication of how likely DER resources can be sourced that will successfully meet the DER Service Requirements. The Market Assessment Metric consists of the following sub-metrics:

- Duration (Hours) of needs, with shorter duration needs receiving a higher quantitative score, is used to create a quantitative Market Assessment Metric score.

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<sup>42</sup> Calculated based on the MWh-day on the peak day only. This value is not equivalent to the Deferral Value per MWh-day of energy production.

<sup>43</sup> The Forecast Certainty metric is not applied to the prioritization ranking for Pre-Application projects. PG&E does not have any Pre-Application projects in its 2021 DDOR.

- Capacity Need (MW) per Circuit, where opportunities with less capacity needed per circuit where the DER can meet the need receive a higher quantitative score, are used to create a quantitative Market Assessment Metric score.
- Operational Requirement, where Real Time or a combination of Real Time and Day Ahead operational requirements are flagged.
- Number of Grid Needs, where a Candidate Deferral Opportunity that has more than 5 grid needs is flagged. Lessons Learned from prior RFOs have indicated it can be difficult to source DERs from multiple locations to meet a single Candidate Deferral Opportunity.




PG&E has learned from prior pilots that baseload (i.e., longer duration) requirements may be difficult to obtain cost-effectively from DERs. The Independent Evaluator reported “it may be best for PG&E to target circuit needs for future DRP RFOs that do not have a baseload need,” due to high costs of DER solutions to meet baseload needs.<sup>44</sup>

In addition, a key learning from PG&E’s DRP Demonstration Project C was that long duration needs with frequent calls (similar to baseload resources) are difficult to source. Operational requirements that require real time dispatch are less likely to be sourced via DERs versus operational requirements that only require day ahead dispatch.

#### 7.4. Tiering of Candidate Deferral Opportunities

For ease of summarizing prioritization metric results, the Joint IOUs have developed a 3-tier system, where each tier represents the Joint IOUs’ proposed priority ranking of those Candidate Deferral Opportunities likelihood of success for DER sourcing via RFO. Table 11 summarizes the Joint IOUs’ proposed 3-tier system.

**Table 11. PG&E’s 3-Tier Prioritization System**

Tier	Color Designation	Definition
1		Relatively High Ranking
2		Relatively Moderate Ranking
3		Relatively Low Ranking

All rankings are relative. For example, a higher tiered project does not indicate that the project will be cost effective, have a certain forecast, or have a robust market.<sup>45</sup> It only indicates the ranking of the Candidate Deferral Opportunity relative to other Candidate Deferral Opportunities.

<sup>44</sup> Public Independent Evaluator Report, Advice Letter 5259-E, Sedway Consulting, Inc., p. 7, March 26, 2018.

<sup>45</sup> For example, green Candidate Deferral Opportunities are expected to be more cost effective than red Candidate Deferral Opportunities, but it does not indicate the Candidate Deferral Opportunity will be cost effective. Similarly, all the opportunities have some degree of forecast uncertainty.

The Joint Prioritization Metrics Workbook Template (Appendix C) places Candidate Deferral Opportunities into three tiers based on a step-by-step process, as illustrated in Figure 2. First, the five quantitative sub-metrics are normalized (based on the maximum and minimum values for each sub-metric). The normalized values for each sub-metric are summed to create a score for each Prioritization Metric.<sup>46</sup> Each of the three Prioritization Metric scores are separated into quartiles. The top quartile of Prioritization Metric scores is assigned a “1”, the middle two quartiles assigned a “0”, and the bottom quartile assigned a “-1”. If one of the sub-metrics is flagged for a given Prioritization Metric, that Prioritization Metric is automatically assigned a “-1”. The total score for each Candidate Deferral Opportunity is then summed across the three Prioritization Metrics. Those with a total score greater than zero are initially placed in Tier 1; those with a total score of zero are placed into Tier 2; and those with a total sum less than zero are placed into Tier 3. As the total score is summed across the Prioritization Metrics, a Candidate Deferral Opportunity can be assigned a “-1” for one of the Prioritization Metrics (e.g., Forecast Certainty) and still be placed into Tier 1. However, if any of the sub-metrics are flagged, the Candidate Deferral Opportunity will be placed into Tier 3 automatically.

Figure 2 visualizes the tiering of Candidate Deferral Opportunities.

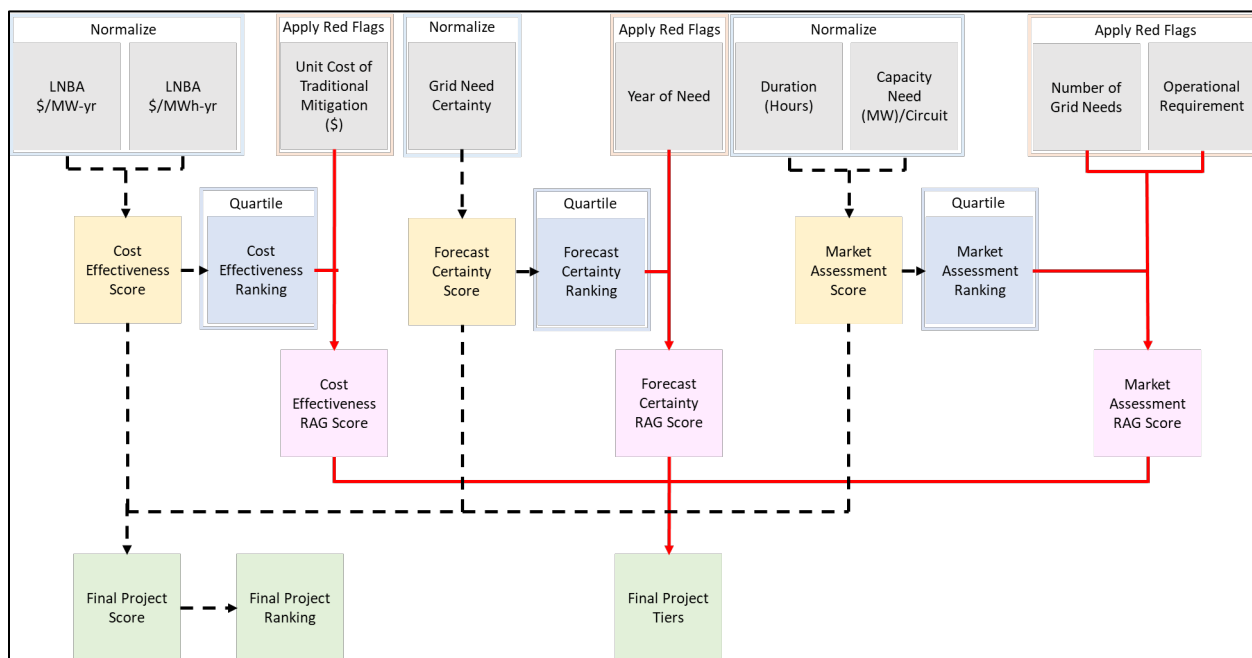


Figure 2. Prioritization Metrics, Final Scoring and Tiering

<sup>46</sup> The Forecast Certainty Metric is based on one sub-metric, and thus is weighted by a factor of two (the other Prioritization Metrics have two quantitative sub-metrics summed with equal weighting).

## 8. Candidate Deferral Opportunity Prioritization

A Prioritization Metrics Workbook Template was developed jointly by the IOUs and was approved by Energy Division on May 18, 2021, and July 7, 2022.<sup>47</sup> Prioritization metrics in the workbook were applied to tier the Candidate Deferral Opportunities as described in Section 7.

### 8.1. Prioritization of Candidate Deferral Opportunities

PG&E's prioritization of its identified Candidate Deferral Opportunities (Appendix C) is summarized in Table 12. Figure 3 shows the location of the Candidate Deferral Opportunities. Using PG&E's tier prioritization system, PG&E has identified approximately 400 MW of Candidate Deferral Opportunities for this DDOR, as follows:

1. Tier 1: Identified 7 Candidate Deferral Opportunities
2. Tier 2: Identified 3 Candidate Deferral Opportunities
3. Tier 3: Identified 8 Candidate Deferral Opportunities

**Table 12. Preliminary Prioritization Metrics and Rankings of Candidate Deferral Opportunities**

Tiers	DDOR ID	Candidate Deferral	In-Service Date	Deficiency (MW)	Cost Effectiveness	Forecast Certainty	Market Assessment
Tier 1	DDOR109	Blackwell Bank 1	6/1/2025	CC	1	0	1
Tier 1	DDOR1001	Camden 1106	5/31/2025	CC	1	1	0
Tier 1	DDOR1007	Carlotta Bank 2	5/31/2025	2.0	1	0	1
Tier 1	DDOR079	Gabilan Bank 2	5/1/2025	CC	1	0	1
Tier 1	DDOR1008	Old River Bank 2	5/31/2025	CC	1	0	1
Tier 1	DDOR1005	San Joaquin Bank 2	5/31/2025	CC	1	1	1
Tier 1	DDOR066	Vasona 1109	6/1/2025	CC	0	1	0
Tier 2	DDOR1029	7th Standard Bank 2	5/1/2025	CC	-1	1	0
Tier 2	DDOR1030	Famoso Bank 1	5/1/2025	CC	0	0	0
Tier 2	DDOR1027	Millbrae Substation	5/2/2025	CC	0	-1	1
Tier 3	DDOR091	Chualar Bank 1	5/1/2025	CC	-1	-1	0
Tier 3	DDOR105	Lockeford Bank 5	5/1/2025	CC	0	0	FLAG
Tier 3	DDOR102	Montague Bank 2	5/1/2025	CC	-1	0	FLAG
Tier 3	DDOR1026	Ravenswood Substation	4/1/2025	72.5	0	-1	-1
Tier 3	DDOR1031	Semitropic Bank 4	5/1/2025	CC	0	1	FLAG
Tier 3	DDOR1032	Tevis Bank 1	5/1/2025	CC	0	1	FLAG
Tier 3	DDOR1034	Tulucay Bank 4	5/31/2025	CC	-1	-1	-1
Tier 3	DDOR1033	Weber Bank 7	5/1/2025	CC	0	0	-1

<sup>47</sup> May 11, 2020 Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework, Attachment A (subsequently revised on June 12, 2020), — Prioritization Metrics, DIFD Reform #20. p. 92.





**Figure 3. Location of PG&E's 2022 Candidate Deferral Opportunities**

## 8.2. Sourcing Mechanism for Candidate Deferral Opportunities

PG&E's recommended sourcing mechanism for its identified Candidate Deferral Opportunities are summarized in Table 13:

1. Request for Offers (RFO) on September 15, 2022: 3 Candidate Deferral Opportunities.
2. Partnership Pilot: 3 Candidate Deferral Opportunities as described in Section 9. The additional selection criteria used for the Partnership Pilot are described in Section 9.1.
3. Standard Offer Contract (SOC) Pilot: 1 Candidate Deferral Opportunities. The additional selection criteria used for the SOC Pilot are described in Section 10.1.
4. Not recommended for sourcing: 11 Candidate Deferral Opportunities. These Candidate Deferral Opportunities will be discussed at the DPAG meetings for consideration for a second round of RFOs.



**Table 13. Recommended Sourcing Mechanism for Candidate Deferral Opportunities\***

Tier	DDOR ID	Candidate Deferral	In-Service Date	Deficiency (MW)	Sourcing Mechanism*
Tier 1	DDOR109	Blackwell Bank 1	6/1/2025	CC	Standard Offer Contract (SOC)
Tier 1	DDOR1001	Camden 1106	5/31/2025	CC	DIDF RFO
Tier 1	DDOR1007	Carlotta Bank 2	5/31/2025	2.0	Partnership Pilot (PP)
Tier 1	DDOR079	Gabilan Bank 2	5/1/2025	CC	Partnership Pilot (PP)
Tier 1	DDOR1008	Old River Bank 2	5/31/2025	CC	DIDF RFO
Tier 1	DDOR1005	San Joaquin Bank 2	5/31/2025	CC	DIDF RFO
Tier 1	DDOR066	Vasona 1109	6/1/2025	CC	Partnership Pilot (PP)
Tier 2	DDOR1029	7th Standard Bank 2	5/1/2025	CC	Not recommended
Tier 2	DDOR1030	Famoso Bank 1	5/1/2025	CC	Not recommended
Tier 2	DDOR1027	Millbrae Substation	5/2/2025	CC	Not recommended
Tier 3	DDOR091	Chualar Bank 1	5/1/2025	CC	Not recommended
Tier 3	DDOR105	Lockeford Bank 5	5/1/2025	CC	Not recommended
Tier 3	DDOR102	Montague Bank 2	5/1/2025	CC	Not recommended
Tier 3	DDOR1026	Ravenswood Substation	4/1/2025	72.5	Not recommended
Tier 3	DDOR1031	Semitropic Bank 4	5/1/2025	CC	Not recommended
Tier 3	DDOR1032	Tevis Bank 1	5/1/2025	CC	Not recommended
Tier 3	DDOR1034	Tulucay Bank 4	5/31/2025	CC	Not recommended
Tier 3	DDOR1033	Weber Bank 7	5/1/2025	CC	Not recommended

Note: \*Initially recommended DER Sourcing mechanisms  
 DIDF RFO - Distribution Investment Deferral Third party RFO competitive solicitations  
 SOC pilot - Standard Offer Contract pilot  
 PP - Partnership Pilot

## 9. Partnership Pilot

CPUC issued D.21-02-006 which adopts Energy Division's Staff Proposals with minor modifications and required the California Investor-Owned Utilities (IOUs) to pilot two frameworks for procuring DERs to avoid or defer utility distribution investments.<sup>48</sup> One of the pilots is called the Partnership Pilot which is a five-year DER distribution deferral tariff pilot. On June 3, 2021, the IOUs submitted Joint Advice Letter 6218-E, et al. on Evaluation Criteria.<sup>49</sup> On June 28, 2021, PG&E received a Disposition Letter approving Advice Letter 6193-E, which established prescreening application criteria.<sup>50</sup> On April 30, 2021 PG&E launched a website<sup>51</sup> for the Pilot.<sup>52</sup> On December 15, 2021, PG&E received a disposition letter approving Advice Letter 6406-E-A, which sought approval of the selection of six Candidate Deferral Opportunities, the total tariff budget, the procurement goals, and the subscription periods for PG&E's 2021-2022 Partnership Pilot cycle. On January 27, 2022, CPUC issued Resolution E-5190 which approved joint IOU submitted Advice Letter 6218-E, with modifications to the Evaluation criteria for the Partnership Pilot and Standard Offer Contract Pilot.

### 9.1. Selection of Candidate Deferral Opportunities for the Partnership Pilot

PG&E is recommending 3 Candidate Deferral Opportunities for the Partnership Pilot. The Candidate Deferral Opportunities recommended for the Partnership Pilot are:

- Gabilan Bank 2
- Carlotta Bank 2
- Vasona 1109

The Candidate Deferral Opportunities recommended for the Partnership Pilot will be discussed at the September 2022 DPAG. On November 15, 2022, PG&E will file a Pilot Advice Letter requesting authorization to launch the subscription period with final cost caps.

The primary factor used in the selection of the Candidate Deferral Opportunities for the Partnership Pilot is a quantitative ranking method, using the Prioritization Metrics shown

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<sup>48</sup> D.21-02-006, p. 2.

<sup>49</sup> D.21-02-006, OP 6.

<sup>50</sup> D.21-02-006, OP 7.

<sup>51</sup> [https://www.pge.com/en\\_US/for-our-business-partners/energy-supply/electric-rfo/wholesale-electric-power-procurement/didf-partnership-pilot.page](https://www.pge.com/en_US/for-our-business-partners/energy-supply/electric-rfo/wholesale-electric-power-procurement/didf-partnership-pilot.page).

<sup>52</sup> D.21-02-006, OP 8.

in Section 8.<sup>53</sup> Qualitative measures, that were considered as secondary factors in the selection, include the examination of the following criteria:

1. At least one Tier 1 deferral opportunity and two Tier 2 or Tier 3 deferral opportunities.<sup>54</sup>
2. Candidate Deferral Opportunities that could demonstrate Ratable Procurement (e.g., opportunities that have incremental procurement goals).
3. Candidate Deferral Opportunities where Ratable Procurement could potentially address the challenge of changing distribution system needs and risk of over and under procurement.
4. Candidate Deferral Opportunities with grid needs occurring within two to five years of Pilot launch.<sup>55</sup>
5. At least one deferral opportunity with a grid need forecast 4 to 5 years out to ensure the subscription period was sufficiently long in duration to test payments.<sup>56</sup>
6. Clusters of deferral opportunities and planned investments.<sup>57</sup>
7. Planned investments that service Disadvantaged Communities (DACs).<sup>58</sup>

Three of the Candidate Deferral Opportunities recommended for the Partnership Pilot (Gabilan Bank 2, Carlotta Bank 2 and Vasona 1109) will provide a means to test the use of Ratable Procurement for forecasted incremental needs. One Candidate Deferral Opportunity recommended for the Partnership Pilot (Gabilan Bank 2) will test the use of Ratable Procurement to address the challenge of forecast uncertainty.<sup>59</sup> Gabilan Bank 2 has a low score under the Forecast Certainty Prioritization Metric (Appendix C), and PG&E recommends using the Partnership Pilot to test whether the use of Ratable Procurement, with annual Tranches updated annually via the distribution planning process, will facilitate the procurement of DERs for Candidate Deferral Opportunities with high forecast uncertainty.

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<sup>53</sup> June 16, 2022, Administrative Law Judge's Ruling on Recommended Reforms for the Distribution Investment Deferral Framework Process, the Partnership Pilot, and the Standard-Offer-Contract Pilot, p. 10.

<sup>54</sup> PG&E met this requirement in 2021 as referenced in Section 4.2.2 in D.21-02-006, p. 23. PG&E's recommendation in 2022 is to select 3 Tier 1 Candidate Deferral Opportunities based on the quantitative and qualitative measures described.

<sup>55</sup> D.21-02-006, Attachment A (Staff Proposal) p. 45.

<sup>56</sup> D.21-02-006, p. 23.

<sup>57</sup> D.21-02-006, Attachment A (Staff Proposal), p. 45.

<sup>58</sup> D.21-02-006, Attachment A (Staff Proposal), p. 45.

<sup>59</sup> D.21-02-006, p. 6.

## 9.2. Procurement Goals

Procurement Goals are the amount of capacity needed to defer the Planned Investment for no less than one year.<sup>60</sup> The parameters contained in the GNA and DDOR are preliminary and will be reviewed during the DPAG review process and updated for inclusion in the November 15 advice letters.<sup>61</sup> Procurement Goals may be updated annually during the DPAG process until the entire grid need is met or the contingency date occurs, whichever happens sooner.<sup>62</sup>

Table 14 through Table 16 depict the Procurement Goals, Acceptance Trigger, and Procurement Caps by Tranche for each Candidate Deferral Opportunity, expressed in Megawatts (MW). The Procurement Goals are based on a forecasted grid need that utilizes future load forecasts to estimate capacity deficiencies. The Acceptance Trigger is defined as the minimum amount of capacity required to execute contracts within the Partnership Pilot framework for a given Tranche (90% of the Procurement Goal). The Procurement Cap is defined as the maximum allowable amount of capacity for Deployment and Reservation payments for each Tranche (120% of the Procurement Goal). Payments are discussed in greater detail within Section 9.4. The number of Tranches and the Procurement Goals (and corresponding Acceptance Triggers, and Procurement Caps), for all tranches are subject to change through annual distribution planning activities and may be updated annually during the DPAG process.<sup>63</sup>

**Table 14. Partnership Pilot Procurement Goal Summary for Gabilan Bank 2\***

Gabilan Bank 2 (Gabilan 1101)				Gabilan Bank 2 (Gabilan Bank 1)			
Tranche #	Acceptance Trigger (MW)	Targeted Procurement Goal (MW)	Procurement Cap (MW)	Tranche #	Acceptance Trigger (MW)	Targeted Procurement Goal (MW)	Procurement Cap (MW)
1	CC	CC	CC	1	CC	CC	CC
2*	CC	CC	CC	2*	CC	CC	CC
3*	CC	CC	CC	3*	CC	CC	CC
4*	CC	CC	CC	4*	CC	CC	CC
5*	CC	CC	CC	5*	CC	CC	CC

\*Procurement Goals for Tranches subsequent to Tranche 1 will be updated annually via our distributional planning process.<sup>64</sup>

<sup>60</sup> D.21-02-006, OP 3.

<sup>61</sup> D.21-02-006, OP 3.

<sup>62</sup> D.21-02-006, OP 3.

<sup>63</sup> D.21-02-006, OP 3.

<sup>64</sup> D.21-02-006, OP 3.

**Table 15. Partnership Pilot Procurement Goal Summary for Carlotta Bank 2\***

Carlotta Bank2 (Carlotta Bank 1121)				Carlotta Bank 2 (Carlotta Bank 1)			
Tranche #	Acceptance Trigger (MW)	Targeted Procurement Goal (MW)	Procurement Cap (MW)	Tranche #	Acceptance Trigger (MW)	Targeted Procurement Goal (MW)	Procurement Cap (MW)
1	0.52	0.58	0.70	1	0.52	0.58	0.70
2*	0.60	0.67	0.80	2*	0.60	0.67	0.80
3*	0.65	0.72	0.86	3*	0.64	0.71	0.85
4*	0.71	0.79	0.95	4*	0.71	0.79	0.95
5*	0.77	0.86	1.03	5*	0.77	0.86	1.03

\*Procurement Goals for Tranches subsequent to Tranche 1 will be updated annually via our distributional planning process.<sup>65</sup>

**Table 16. Partnership Pilot Procurement Goal Summary for Vasona 1109\***

Vasona 1109 (Saratoga 1104)			
Tranche #	Acceptance Trigger (MW)	Targeted Procurement Goal (MW)	Procurement Cap (MW)
1	CC	CC	CC
2*	CC	CC	CC
3*	CC	CC	CC
4*	CC	CC	CC
5*	CC	CC	CC

\*Procurement Goals for Tranches subsequent to Tranche 1 will be updated annually via our distributional planning process.<sup>66</sup>

Upon launch of the 2022 Partnership Pilot projects, the Partnership Pilot website will provide monthly procurement updates for active and closed tranches. An update for the procurement progress for the 2021 Partnership Pilot projects is provided in Section 9.5.<sup>67</sup>

### 9.3. Subscription Period and Contingency Dates

Table 17 through Table 19 display milestones for the Subscription Period, which includes the Subscription Launch Date, Reservation Deadline, Subscription Duration, Contingency Dates and In-Service Dates for each Tranche for the Candidate Deferral

<sup>65</sup> D.21-02-006, OP 3.

<sup>66</sup> D.21-02-006, OP 3.

<sup>67</sup> D.21-02-006, OP 4.iii.

Opportunities recommended for the Partnership Pilot.<sup>68</sup> All dates shown are tentative and based on the following:

- Subscription Launch Date: The date at which parties are eligible to submit reservations. The Subscription Launch Date for Tranche 1 will be 30 days after the approval of the November 15, 2022 Advice Letter filing.<sup>69</sup> The Subscription Launch Date for later Tranches is the same as the Contingency Date from the preceding Tranche; however, the Subscription Launch date for later Tranches may be earlier if the Acceptance Trigger for the prior Tranche is achieved prior to the Contingency Date.
- The Reservation Deadline is reliant on the Contingency Date of each Candidate Deferral Opportunity. The Reservation Deadline is 60 days prior to the Contingency Date to ensure there is adequate time to: 1) review the reservation, 2) request additional information or clarify project details, and 3) award and execute a contract.
- The Subscription Duration represents the total number of days from the Subscription Launch Date to the Reservation Deadline.
- The Contingency Date<sup>70</sup> is specific to the Candidate Deferral Opportunity and is based on the distribution planning process, which includes engineering and design, materials procurement, and construction. See Section 11 for further detail on Contingency Plans.

Reservations from aggregators will be accepted from the Subscription Launch Date until either the Procurement Cap is reached, or the Contingency Date occurs, whichever occurs first.<sup>71</sup> Reservations will be reviewed and verified on a first come first serve basis. Aggregators will file offer reservations for either a portion or for all the needed capacity.<sup>72</sup> Once the Acceptance Trigger is achieved from one or multiple reservation offers, contracts are executable. The contract term for the first tranche is one year in duration, beginning on the In-Service Date.

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<sup>68</sup> One Tranche has been defined for Coalinga and Rocklin as described in Section 9.2

<sup>69</sup> D.21-02-006, Attachment A (Staff Proposal), pp. 45-46.

<sup>70</sup> D.21-02-006, Attachment A (Staff Proposal), p. 45.

<sup>71</sup> D.21-02-006, OP 3.

<sup>72</sup> D.21-02-006, p. 22.

**Table 17. Partnership Pilot Subscription Summary for Gabilan Bank 2**

Gabilan Bank 2 (Gabilan 1101 & Gabilan Bank 1)					
Tranche #	Subscription Launch	Reservation Deadline	Subscription Duration (Days)	Contingency Date	In-Service Date
1	1/15/2023	8/2/2022	-166 <sup>73</sup>	10/1/2022	5/1/2025
2	TBD	TBD	TBD	TBD	5/1/2026
3	TBD	TBD	TBD	TBD	5/1/2027
4	TBD	TBD	TBD	TBD	5/1/2028
5	TBD	TBD	TBD	TBD	5/1/2029

**Table 18. Partnership Pilot Subscription Summary for Carlotta Bank 2**

Carlotta Bank 2					
Tranche #	Subscription Launch	Reservation Deadline	Subscription Duration (Days)	Contingency Date	In-Service Date
1	1/15/2023	8/31/2022	-137	10/31/2022	5/31/2025
2	TBD	TBD	TBD	TBD	5/31/2026
3	TBD	TBD	TBD	TBD	5/31/2027
4	TBD	TBD	TBD	TBD	5/31/2028
5	TBD	TBD	TBD	TBD	5/31/2029

**Table 19. Partnership Pilot Subscription Summary for Vasona 1109**

Vasona 1109					
Tranche #	Subscription Launch	Reservation Deadline	Subscription Duration (Days)	Contingency Date	In-Service Date
1	1/15/2023	4/1/2023	76	6/1/2023	6/1/2025
2	TBD	TBD	TBD	TBD	6/1/2026
3	TBD	TBD	TBD	TBD	6/1/2027
4	TBD	TBD	TBD	TBD	6/1/2028
5	TBD	TBD	TBD	TBD	6/1/2029

As described in AL 6406-E, PG&E received input during the 2021 DPAG webinars that Candidate Deferrals that have short Tranche 1 Subscription Periods would benefit from extended subscription dates.<sup>74</sup> Therefore, PG&E will revisit the Reservation Deadline during the DPAG period for the Candidate Deferrals that would otherwise have short or negative Tranche 1 Subscription Periods (Carlotta and Gabilan). PG&E will consider

<sup>73</sup> As discussed below, PG&E is proposing to extend the Reservation Deadline to 60 days before the beginning of the engineering and design phase (8/2/2023), bringing the subscription duration to 199 days.

<sup>74</sup> AL 6406-E, p. 6-7

extending the Reservation Deadline and Contingency Date to coincide with the beginning of the design and engineering phase of the planned investment rather than the beginning of equipment procurement.<sup>75</sup> This would provide additional time for aggregators to procure Behind-The-Meter (BTM) DERs. As a result, PG&E would continue to incur costs as the equipment procurement of the wire's solution would continue in parallel to the Subscription Period for these two projects. PG&E may therefore incur and track costs in the Distributed Energy Resources Distribution Deferral Account (DERDDA) memorandum account that are considered part of the deferral value attributable to DERs.<sup>76</sup> PG&E will consider proposing this schedule to maximize the opportunities for DERs to participate in the Partnership Pilot.

#### 9.4. Proposed Partnership Pilot Budget

The proposed Pilot Budgets supports a three-tiered payment structure with the following allocations:

- Deployment Payment: 20 percent of the Tariff Budget.
- Capacity Reservation Payment tier – 30 percent of the Tariff Budget; and
- Performance Payment tier – 50 percent of the Tariff Budget.<sup>77</sup>

Table 20 through Table 22 show the Deferral Value, Deployment Budget, Reservation Budget, Performance Budget, and Tranche Budget for each of the Candidate Deferral Opportunities recommended for the Partnership Pilot, across tranches. The Total Budget for each Candidate Deferral Opportunity is the summation of the Tranche Budgets. A Simple Pricing Method has been applied to the Partnership Pilot, whereby the Tariff Budget is set at 85 percent of the cost cap.<sup>78</sup> The cost cap for each tranche is equal to the Deferral Value for the Candidate Deferral Opportunity for the term of the contract (one year).<sup>79</sup> The term of the contracts is subject to change in sequential tranches and may vary by opportunity. A change to the term would directly impact the calculation of the Deferral Value of a tranche and the Total Deferral Value of the Opportunity. The Total Deferral Value is defined as the summation of the Deferral Value for each tranche. All values are expressed in \$1,000s and have been discounted to the year of the In-Service Date for each tranche. The budget tables below are preliminary and will be finalized through the November 15 Advice Letter filing.

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<sup>75</sup> Due to long lead times for the procurement of transformers currently, the procurement date for the transformers for these two candidate deferral opportunities is before the design and engineering date.

<sup>76</sup> D.18-02-004, at pp. 87-88, OP 2.x: "The Commission orders that contingency planning shall not be prescribed but rather determined by the IOUs on a case-by-case basis".

<sup>77</sup> D.21-02-006, OP 2.g.

<sup>78</sup> D.21-02-006, OP 2.d.

<sup>79</sup> D.21-02-006, p. 40.



**Table 20. Partnership Pilot Budget Summary (\$1,000s) for Gabilan Bank 2**

Gabilan Bank 2 (Gabilan 1101 & Gabilan Bank 1)					
Tranche #	Deferral Value	Deployment Budget	Reservation Budget	Performance Budget	Tranche Budget
1	\$1,728	\$294	\$441	\$734	<b>\$1,469</b>
2	\$1,771	\$301	\$452	\$753	<b>\$1,506</b>
3	\$1,816	\$309	\$463	\$772	<b>\$1,543</b>
4	\$1,861	\$316	\$475	\$791	<b>\$1,582</b>
5	\$1,908	\$324	\$486	\$811	<b>\$1,621</b>
<b>TOTAL</b>	<b>\$9,083</b>	<b>\$1,544</b>	<b>\$2,316</b>	<b>\$3,860</b>	<b>\$7,721</b>

**Table 21. Partnership Pilot Budget Summary (\$1,000s) for Carlotta Bank 2**

Carlotta Bank 2 (Carlotta 1121 & Carlotta Bank 1)					
Tranche #	Deferral Value	Deployment Budget	Reservation Budget	Performance Budget	Tranche Budget
1	\$548	\$93	\$140	\$233	<b>\$466</b>
2	\$562	\$95	\$143	\$239	<b>\$477</b>
3	\$576	\$98	\$147	\$245	<b>\$489</b>
4	\$590	\$100	\$150	\$251	<b>\$502</b>
5	\$605	\$103	\$154	\$257	<b>\$514</b>
<b>TOTAL</b>	<b>\$2,881</b>	<b>\$490</b>	<b>\$735</b>	<b>\$1,224</b>	<b>\$2,448</b>

**Table 22. Partnership Pilot Budget Summary (\$1,000s) for Vasona 1109**

Vasona 1109 (Saratoga 1104)					
Tranche #	Deferral Value	Deployment Budget	Reservation Budget	Performance Budget	Tranche Budget
1	\$434	\$74	\$111	\$185	<b>\$369</b>
2	\$445	\$76	\$114	\$189	<b>\$378</b>
3	\$456	\$78	\$116	\$194	<b>\$388</b>
4	\$468	\$80	\$119	\$199	<b>\$398</b>
5	\$479	\$81	\$122	\$204	<b>\$407</b>
<b>TOTAL</b>	<b>\$2,283</b>	<b>\$388</b>	<b>\$582</b>	<b>\$970</b>	<b>\$1,940</b>

Funds not spent in any Partnership Pilot project tranche will be rolled over to the subsequent tranche, while maintaining the deployment, reservation, and performance payment structure. Any excess funds that remain after the full deferral period (i.e., there are no future tranches to receive the roll over) will be returned to ratepayers.<sup>80</sup>

<sup>80</sup> June 16, 2022, Administrative Law Judge's Ruling on Recommended Reforms for the Distribution Investment Deferral Framework Process, the Partnership Pilot, and the Standard-Offer-Contract Pilot, p. 8.

### 9.5. Status updates and reporting of the 2021 Partnership Pilot projects

In PG&E's 2021 DDF cycle, PG&E identified 6 Candidate Deferral Opportunities for the Partnership Pilot.<sup>81</sup> As depicted in Table 23, the subscription launched for Tranche 1 for the 6 Candidate Deferral Opportunities by January 18, 2022.<sup>82</sup> Upon launch, the Partnership Pilot website has provided monthly procurement updates for active and closed tranches.<sup>83</sup> The reservation deadline for the subscription period for the Coalinga No. 1 Bank 2 and Belle Haven Bank 4 Candidate Deferral opportunities ended with no reservations. Since the grid need was not successfully deferred by DERs and the contingency date has passed, the pilot is closed for the Coalinga No. 1 Bank 2 and Belle Haven Bank 4 Candidate Deferral Opportunities.

**Table 23. 2021 Partnership pilot projects Tranche 1 subscription periods**

Project Name	Subscription Launch	Reservation Deadline	Subscription Duration (Days)	Contingency Date	In-Service Date
Coalinga No. 1 Bank 2	1/18/2022	6/1/2022	142	8/1/2022	6/1/2024
Embarcadero (SF Z) 1116	1/18/2022	4/1/2024 <sup>84</sup>	446	6/1/2023	4/1/2026
Embarcadero (SF Z) 1118	1/18/2022	4/3/2023 <sup>84</sup>	812	6/1/2024	6/1/2025
Rocklin 1105	1/18/2022	3/1/2023	415	5/1/2023	5/1/2025
Anita 1105	1/18/2022	3/1/2023	415	5/1/2023	6/1/2024
Belle Haven Bank 4	1/18/2022	5/1/2022	111	7/1/2022	5/1/2024

For the other four Candidate Deferral Opportunities (i.e., Embarcadero (SF Z) 1116, Embarcadero (SF Z) 1118, Rocklin 1105, and Anita 1105), the subscription period for Tranche 1 is still open. As of August 1, 2022, the procurement goal has not yet been met for any of these four Candidate Deferral Opportunities. The Subscription Periods and Budget are unchanged for the four Candidate Deferral Opportunities.<sup>85</sup> The Procurement Goals for Tranche 1 are also unchanged. Per D.21-02-006<sup>86</sup> and PG&E's 2021 DDOR,<sup>87</sup> the number of Tranches and the Procurement Goals (and corresponding Acceptance Triggers, and Procurement Caps), for all subsequent tranches will continue

<sup>81</sup> PG&E's 2021 DDOR, Section 9

<sup>82</sup> Advice Letter 6406-E-A, Table 5, p. 6

<sup>83</sup> [https://www.pge.com/en\\_US/for-our-business-partners/energy-supply/electric-rfo/wholesale-electric-power-procurement/didf-partnership-pilot.page](https://www.pge.com/en_US/for-our-business-partners/energy-supply/electric-rfo/wholesale-electric-power-procurement/didf-partnership-pilot.page)

<sup>84</sup> The dates for Embarcadero 1116 and Embarcadero 1118 were incorrect in the Advice Letter 6406-E-A and are corrected here.

<sup>85</sup> Advice Letter 6406-E

<sup>86</sup> D.21-02-006, OP 3.

<sup>87</sup> Advice Letter 6406-E, p. 5

to be subject to change through the annual distribution planning activities and may continue to be updated annually during the DPAG process.

## 10. Standard Offer Contract (SOC) Pilot

CPUC issued D.21-02-006 which adopts Energy Division's Staff Proposals with minor modifications and required the California Investor Owned Utilities (IOUs) to pilot two frameworks for procuring DERs to avoid or defer utility distribution investments.<sup>88</sup> One of the pilots is called the SOC Pilot, which is a framework for DER solicitations whereby a Standard Offer Contract, based on the existing Technology-Neutral Pro Forma (TNPF), would be used to decrease the transactional costs and risks present in the current RFO process. This three-year Pilot is intended for larger scale providers of In-Front-of-Meter distributed energy resources<sup>89</sup> and overlaps with the current GNA, DDOR, and DIDF RFO process. On June 3, 2021, the IOUs submitted Joint Advice Letter 6128-E, et al. on Evaluation Criteria.<sup>90</sup> On June 28, 2021, PG&E received a Disposition Letter approving Advice Letter 6193-E for TNPF.<sup>91</sup> On April 12, 2021, IOUs hosted a meeting to discuss further needed changes to the TNPF.<sup>92</sup> Upon releasing the SOC RFO on September 15, 2022, PG&E will publish cost caps and solicitation details based on the simple auction pricing method.

### 10.1. Selection of Candidate Deferral Opportunities for the SOC Pilot

The primary factor used in the selection of the Candidate Deferral Opportunities for the SOC Pilot is a quantitative ranking method, using the Prioritization Metrics shown in Section 8.<sup>93</sup> Qualitative measures, that were considered as secondary factors in the selection, include the examination of the following criteria:

- At least one Tier 1 Candidate Deferral Opportunity selected.
- A single Grid Need location to defer the Candidate Deferral Opportunity, in order to facilitate a single Point of Interconnection for an In-Front-of-the-Meter (IFOM) DER solution.
- Indications that there is sufficient capacity at the location of the Grid Need for a DER to charge from the grid, so that IFOM DERs (including energy storage) may be able to charge from the location of need. PG&E notes that this assessment is

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<sup>88</sup> D.21-02-006, p. 2.

<sup>89</sup> D.21-02-006, p. 57.

<sup>90</sup> D.21-02-006, OP 6.

<sup>91</sup> D.21-02-006, OP 7.

<sup>92</sup> D.21-02-006, OP 13.

<sup>93</sup> June 16, 2022, Administrative Law Judge's Ruling on Recommended Reforms for the Distribution Investment Deferral Framework Process, the Partnership Pilot, and the Standard-Offer-Contract Pilot, p. 10.

only indicative, and the DER solution would still need to pursue the interconnection process.

- Earlier In-Service Dates to test the impact of the SOC pilot on the ability of DERs to meet the In-Service Date (see Section 12.2).
- Candidate Deferral Opportunities with larger Grid Needs (MW), as those needs may be most appropriate for Utility-Scale IFOM DER solutions.

Based on these selection criteria, PG&E plans to launch solicitations for the SOC Pilot on September 15, 2022 for 1 Candidate Deferral Opportunity at Blackwell Bank 1.

## 10.2. Procurement Status Update of the 2021 SOC pilot

PG&E launched solicitations for the SOC Pilot on September 15, 2021, for one Candidate Deferral Opportunity, Vierra Bank 3. On May 5, 2022, PG&E filed Advice Letter 6583<sup>94</sup> to terminate the solicitation for the Vierra Bank 3 candidate deferral opportunity, due to significant load forecast changes on the bank that impacted the deferral viability of the Candidate Deferral Opportunity. Advice Letter 6583 was approved, effective June 5, 2022, and the solicitation was terminated.

## 11. Contingency Plans

Electric distribution systems can change dynamically in terms of local area demand in response to agricultural water allocation and temperature sensitivity, economic drivers, and the unpredictability of large new customer load additions. When one of these drivers causes the load or near term forecast to exceed the local system capability, PG&E manages the load until capacity upgrades can be installed using field switching where possible, temporary re-rates on various pieces of equipment, and/or installation of temporary and mobile equipment.

Generally, these are the same contingency planning steps PG&E will use for contracted DER solutions that are not able to successfully mitigate the grid needs for the identified Candidate Deferral Opportunities. Specifically, PG&E has considered three different project stages where a DER solution can fail in being able to provide successful distribution services:

- **DER Solicitation stage:** If no cost-effective or combination of cost-effective bids meet the grid need, or if there is a change in forecasted grid need date (e.g., accelerating the need for a solution sooner than originally planned), the contingency plan option is to either consider the deferral opportunity again in next

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<sup>94</sup> Advice Letter 6583-E, "Notice to Suspend Competitive Solicitations for Distributed Energy Resource (DER) Procurement for Electric Distribution Deferral Opportunities at Vierra Substation", May 5, 2022.

year's DDOR<sup>95</sup> or proceed with the planned "wires" project if the start date for the project is prior to next year's distribution resources planning process.

- **DER Implementation stage:** If the contracted DER solution fails to meet its implementation milestones and is not expected to achieve operations by the identified grid need date, or if there is a change in forecasted grid need date (e.g., accelerating the need for a solution sooner than originally planned), the contingency plan options available during this stage depends upon when during the DER implementation stage it becomes known the DER solution will be not be available to meet the identified grid need date. If it is early in the implementation stage, it may be possible for another cost-effective or combination of cost-effective bids for DERs to be considered.<sup>96</sup> If that is not the case, the contingency is to implement the planned wires project if possible. If it is later in the DER implementation stage, depending upon the loading and system conditions, a stop-gap wires solution including the various steps described above will be implemented.
- **Commercial Operation stage:** If the contracted DER resource fails to meet performance requirements or simply fails while in service, PG&E will handle this situation in the same manner as with any other failed equipment. The immediate emergency response includes distribution operations personnel implementing load transfers based on current loading profiles, installation of mobile generation, and/or a plan to interrupt power for local customers as a last resort. The contingency plan beyond the initial 24 hours would consider area loading, expected duration of the DER resource failure, potential transfers that may be available because of recent distribution infrastructure additions or improvements, re-rating of distribution facilities,<sup>97</sup> including substation banks, and installation of temporary facilities such as a mobile transformer bank.<sup>98</sup>

It is important to note that new customer load applications for demand in the 2-5 MW range are not uncommon. PG&E cannot predict with absolute certainty where or when large new customer load will happen. For example, a high-speed Electric Vehicle charging facility may result in a load application request between 5-10 MW at a specific location. If an updated demand forecast is higher than what the DER solution can

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<sup>95</sup> Where third-party DER procurement is unsuccessful, PG&E will consider full or partial IOU-ownership of a DER solution.

<sup>96</sup> Where third-party DER procurement is unsuccessful, PG&E will consider full or partial IOU-ownership of a DER solution.

<sup>97</sup> The use of emergency ratings is unlikely to be a viable contingency plan for Candidate Deferral Opportunities with long duration needs due to the duration of the need exceeding the duration of the emergency rating.

<sup>98</sup> Where third-party DER procurement is unsuccessful, PG&E will consider full or partial IOU-ownership of a DER solution.

provide, PG&E would deploy the same contingency strategies identified previously in this section. PG&E also coordinates with customers in providing new service based on the size and timing of the load ramp up schedule.

For the Partnership Pilot, the Contingency Date for each Candidate Deferral Opportunity selected is described and included in Section 9.3.

As part of the ongoing evaluation and reform of the DIDF process, PG&E reports on the contingency spending for the most recent DIDF solicitations.<sup>99</sup> PG&E tracks all contingency costs in its Distributed Energy Resources Distribution Deferral Account (DERDDA) and will seek recovery for costs reasonably incurred in its General Rate Case.<sup>100</sup> As of July 1, 2022, the contingency spend on Candidate Deferral Opportunities that PG&E received authorization to solicit is as summarized in Table 24.

**Table 24. Contingency Spend**

CANDIDATE DEFERRAL OPPORTUNITY	CONTINGENCY SPEND*
Embarcadero (SF Z) 1116	\$0
Embarcadero (SF Z) 1118	\$1,495
Lakeview 1110	\$7,438
Mormon Bank 2	\$0
Rocklin 1105	\$0
Saratoga 1102	\$0
Anita 1105	\$0

\* Contingency Spend as of July 6, 2022 on Candidate Deferral Opportunities from PG&E's 2021-2022 DIDF Cycle

In addition, for the Huron Bank 1 Planned Investment, PG&E solicited, contracted, and received approval for a DER solution to address the DER-driven needs in the 2019-2020 DIDF Cycle.<sup>101</sup> Accordingly, the Planned Investment was put on hold starting November 2019. When the DER deferral contract was terminated in September 2020, and it was determined that an alternative DER deferral project was not available, the Planned Investment was resumed. The pause of the Planned Investment caused an approximately 12-month delay in the Planned Investment while a new bank was ordered and manufactured.

<sup>99</sup> May 7, 2019, Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework Process, p. 13.

<sup>100</sup> Rulemaking (R.) 14-08-013, Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework—Filing and Process Requirements, Att. A, Item 51 (May 11, 2020).

<sup>101</sup> PG&E AL 5707-E

## 12. Recommendations and Next Steps

PG&E will launch a competitive solicitation via a September 15, 2022 RFO for 3 Tier 1 Candidate Deferral Opportunities, as listed below:

- Camden 1106
- Old River Bank 2
- San Joaquin Bank 2

PG&E will also launch a Standard Offer Contract (SOC) Pilot for one Candidate Deferral Opportunity on September 15, 2022. The recommended Candidate Deferral Opportunities for the Standard Offer Contract is listed below:

- Blackwell Bank 1

Additionally, PG&E is recommending 3 Candidate Deferral Opportunities for the first Tranche for the Partnership Pilot. The Candidate Deferral Opportunities recommended for the Partnership Pilot will be discussed at the September 2022 DPAG. On November 15, 2022, PG&E will file a Pilot Advice Letter requesting authorization to launch the subscription period with final cost caps. The recommended Candidate Deferral Opportunities for the Partnership Pilot are listed below:

- Gabilan Bank 2
- Carlotta Bank 2
- Vasona 1109

PG&E does not recommend pursuing the remaining Tier 2 and 3 Candidate Deferral Opportunities at this time due to their low likelihood of achieving a successful outcome. However, these Candidate Deferral Opportunities will be discussed at upcoming Distribution Planning Advisory Group (DPAG) Meetings.

### 12.1. Proposed Work Plan for the Distribution Planning Advisory Group

In accordance with D.18-02-004 ordering paragraphs 2.t, 2.u, and 2.v and the May 7, 2019, April 13, 2020, May 11, 2020 June 2021, and June 2022, ALJ Rulings Modifying the DIDF Process, PG&E will proceed with the work plan below for the DPAG meetings:

- Sept 5: The IPE circulates preliminary analysis of PG&E's GNA and DDOR
- Sept 19 (Tentative): Joint IOUs to host DPAG Primer Webinar
- Sept 15: Launch RFO for DER solicitations from 3<sup>rd</sup> party and Standard Offer Contract pilot
- Sept 15 - Utilities update Participation Pilot website with prescreened aggregator contact information
- Sept 20 (Tentative): PG&E to host DPAG meeting via Webinar
- Sept 25: Participants provide questions and comments to IOUs and IPE
- Oct 5: Provide responses to questions

- Oct 15: Supplemental filing of GNA/DDOR for line section data
- Nov 15: File two Tier 2 Advice Letters
  1. Approval to launch subscription periods for Partnership pilot.
  2. Seeking approval to not launch RFOs, SOC's or Partnership pilots for remaining Planned Investments and Candidate Deferral opportunities

## 12.2. Future DIDF Reform

To consider future reforms to the DIDF process, PG&E provides the following recommendations for future DIDF reform:<sup>102</sup>

1. Overall, PG&E views the DIDF as successfully providing information about PG&E's distribution planning process and identifying opportunities for deferral by DERs.
2. PG&E recommends that efforts continue towards streamlining the regulatory schedule and requirements for the DIDF process, so that more time can be allowed between when the Candidate Deferral Opportunities are finalized and the In-Service Dates for Candidate Deferral Opportunities. Lessons learned from prior DIDF cycles have indicated that DER developers already have difficulty meeting the In-Service Dates for Candidate Deferral Opportunities. The Standard Offer Contract (SOC) pilot and the DIDF RFO schedule implemented in D.21-02-006 are examples of streamlined regulatory schedules that may allow more time for DER developers to meet their In-Service Dates.
3. PG&E continues to recommend that line sections be excluded from future DIDF cycles. Assessing line section needs and documenting the line section Planned Investments requires extensive effort, while few, if any, are likely to be viable Candidate Deferral Opportunities due to the near-term identification of the need, the uncertainty of the long-term forecast for line sections, the relatively smaller amount of customers for which to potentially market DERs, and the relatively smaller cost of the traditional mitigation. If the line section data is still required, PG&E recommends that the IOUs be allowed to file it as a supplement to the GNA and DDOR by October 15<sup>th</sup> of each year. This would allow stakeholders to focus on the Candidate Deferral Opportunities and streamline the GNA, DDOR, and DPAG process.
4. PG&E's 2022 GNA and DDOR filings include a grid need ID, facility ID, and project ID numbering system. All project ID numbers are unique and directly link to specific projects in PG&E's GRC when such projects are specifically included in the GRC. PG&E filed its 2023 GRC application in July 2021. Differences between the DDOR and GRC are described in Section 6.1.

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<sup>102</sup> May 7, 2019, Administrative Law Judge's Ruling Modifying the Distribution Investment Deferral Framework Process, p. 16.



5. The encouragement of IOU ownership of DERs to defer traditional wires investments should continue. However, recovery of costs under the Energy Resource Recovery Account (ERRA) discourages PG&E procurement of services beyond the distribution Deferral Value. The recovery of costs via ERRA for all services (other than the Deferral Value) creates fairness and equity concerns, because the procurement of the DER services is fundamentally being done to address grid needs, not to address a bundled customer need. Furthermore, IOU ownership of DERs to defer traditional wires investments should be encouraged and facilitated directly (Section 3.2), rather than just through the DIDF solicitation process.
6. PG&E continues to recommend that LNBA calculations only be required for the Candidate Deferral Opportunities (rather than for all Planned Investments), as the purpose of this information is to evaluate the feasibility of DER deferral and it is a significant undertaking to provide this information for all Planned Investments. Furthermore, as explained in Section 6.2, the LNBA values for Planned Investments that are not Candidate Deferral Opportunities are not indicative of the Deferral Value. The unit costs used for these Planned Investments are based on the total unit cost rather than the deferrable (unspent costs). Therefore, the LNBA value for these Planned Investments is not representative of the Deferral Value and thus serves no clear purpose.

Appendix A: Planned Investments

PDF attached separately

Appendix B: Candidate Deferral Opportunities

PDF attached separately

Appendix C: Prioritization Metric Workbook

Workbook PDF attached separately

Appendix D: LNBA Workbooks for Candidate Deferral Opportunities

Workbook PDF attached separately

Appendix E: LNBA Workbooks for Planned Investments

Workbook PDF attached separately

# Appendix F: Forecast Uncertainty Questionnaire

Workbook PDF attached separately

																				Customer Count					
DDOR ID	Previous DDOR?	Distribution Planning Region	Division	Project Type	Project Name	Project Description	In-service Date	Project Cost (\$k)	Deferrable (Y/N)	LNBA Value (\$/kW-yr)	LNBA Value (\$/Vpu-yr)	GNA Need ID	Facility ID	GNA Facility Name	Distribution Service Required	Grid Need (2022-2031)	Grid Need Unit	Residential	Commercial	Industrial	Agricultural	Other	Total		
DDOR001	Yes	South Bay and Central Coast	De Anza	Feeder	VASONA 1106	INSTALL VASONA 1106	5/1/2022	\$5,105	N	\$67	-	GNA_0820201_Capacity	0820201	LOS GATOS BANK 1	Capacity	1.32	MW	4351	632	155	6	27	5171		
DDOR001	Yes	South Bay and Central Coast	De Anza	Feeder	VASONA 1106	INSTALL VASONA 1106	5/1/2022	\$5,105	N	\$67	-	GNA_0820202_Capacity	0820202	LOS GATOS BANK 2	Capacity	2.90	MW	1570	93	24	1	10	1698		
DDOR001	Yes	South Bay and Central Coast	De Anza	Feeder	VASONA 1106	INSTALL VASONA 1106	5/1/2022	\$5,105	N	\$67	-	GNA_0837701_Capacity	0837701	VASONA BANK 1	Capacity	CC	MW	8695	942	290	1	42	9970		
DDOR001	Yes	South Bay and Central Coast	De Anza	Feeder	VASONA 1106	INSTALL VASONA 1106	5/1/2022	\$5,105	N	\$67	-	GNA_083771102_Capacity	083771102	VASONA 1102	Capacity	1.19	MW	2197	221	61	0	10	2489		
DDOR001	Yes	South Bay and Central Coast	De Anza	Feeder	VASONA 1106	INSTALL VASONA 1106	5/1/2022	\$5,105	N	\$67	-	GNA_083771103_Capacity	083771103	VASONA 1103	Capacity	0.79	MW	3335	137	18	0	5	3495		
DDOR002	Yes	South Bay and Central Coast	San Jose	Bank and Feeder	SANTA TERESA BANK	INSTALL DISTRIBUTION BANK AT SANTA TERESA SUB	2/2/2022	\$15,644	N	\$39	-	GNA_0829502_Capacity	0829502	EDENVALE BANK 2	Capacity	CC	MW	104	83	65	0	9	261		
DDOR002	Yes	South Bay and Central Coast	San Jose	Bank and Feeder	SANTA TERESA BANK	INSTALL DISTRIBUTION BANK AT SANTA TERESA SUB	2/2/2022	\$15,644	N	\$39	-	GNA_082952107_Capacity	082952107	EDENVALE 2107	Capacity	CC	MW	1	80	65	0	8	154		
DDOR002	Yes	South Bay and Central Coast	San Jose	Bank and Feeder	SANTA TERESA BANK	INSTALL DISTRIBUTION BANK AT SANTA TERESA SUB	2/2/2022	\$15,644	N	\$39	-	GNA_0829504_Capacity	0829504	EDENVALE BANK 4	Capacity	CC	MW	4469	169	69	0	26	4733		
DDOR002	Yes	South Bay and Central Coast	San Jose	Bank and Feeder	SANTA TERESA BANK	INSTALL DISTRIBUTION BANK AT SANTA TERESA SUB	2/2/2022	\$15,644	N	\$39	-	GNA_082952111_Capacity	082952111	EDENVALE 2111	Capacity	CC	MW	0	3	0	0	1	4		
DDOR002	Yes	South Bay and Central Coast	San Jose	Bank and Feeder	SANTA TERESA BANK	INSTALL DISTRIBUTION BANK AT SANTA TERESA SUB	2/2/2022	\$15,644	N	\$39	-	GNA_082952112_Capacity	082952112	EDENVALE 2112	Capacity	CC	MW	26	0	0	0	0	26		
DDOR004	Yes	Bay Area	Diablo	Feeder	BRENTWOOD 2104	INSTALL BRENTWOOD 2104 FEEDER ON BRENTWOOD BANK 1	5/1/2022	\$5,635	N	\$84	-	GNA_014592112_Capacity	014592112	BRENTWOOD 2112	Capacity	2.31	MW	4306	368	66	119	48	4907		
DDOR004	Yes	Bay Area	Diablo	Feeder	BRENTWOOD 2104	INSTALL BRENTWOOD 2104 FEEDER ON BRENTWOOD BANK 1	5/1/2022	\$5,635	N	\$84	-	GNA_014592112_Reliability	014592112	BRENTWOOD 2112	Reliability	5.97	MW	4306	368	66	119	48	4907		
DDOR007	Yes	South Bay and Central Coast	San Jose	Feeder	ALMADEN 1112	BUILD FEEDER FROM EXISTING BREAKER	12/30/2022	\$1,653	N	\$47	-	GNA_0834302_Capacity	0834302	HICKS BANK 2	Capacity	2.95	MW	13052	647	272	0	30	14001		
DDOR007	Yes	South Bay and Central Coast	San Jose	Feeder	ALMADEN 1112	BUILD FEEDER FROM EXISTING BREAKER	12/30/2022	\$1,653	N	\$47	-	GNA_083431110_Capacity	083431110	HICKS 1110	Capacity	1.24	MW	2606	122	90	0	11	2829		
DDOR009	Yes	Bay Area	Diablo	Feeder	ROSSMOOR 1109	INSTALL ROSSMOOR 1109	12/1/2023	\$16,988	N	\$156	-	GNA_0138005_Reliability	0138005	MORAGA BANK 5	Reliability	CC	MW	9291	777	151	1	52	10272		
DDOR010	Yes	Central Valley	Fresno	Feeder	DINUBA 1103	INSTALL DINUBA 1103	6/1/2023	\$1,258	N	\$26	-	GNA_254091102_Capacity	254091102	DINUBA 1102	Capacity	0.69	MW	2494	345	105	75	14	3033		
DDOR010	Yes	Central Valley	Fresno	Feeder	DINUBA 1103	INSTALL DINUBA 1103	6/1/2023	\$1,258	N	\$26	-	GNA_254091104_Capacity	254091104	DINUBA 1104	Capacity	2.59	MW	1066	92	20	489	10	1677		
DDOR010	Yes	Central Valley	Fresno	Feeder	DINUBA 1103	INSTALL DINUBA 1103	6/1/2023	\$1,258	N	\$26	-	GNA_254091105_Capacity	254091105	DINUBA 1105	Capacity	2.46	MW	1229	99	15	517	11	1871		
DDOR012	Yes	Bay Area	Mission	Feeder	NEWARK 2111	INSTALL NEWARK 2111	1/10/2022	\$3,180	N	\$18	-	GNA_012232109_Capacity	012232109	NEWARK 2109	Capacity	CC	MW	0	1	5	0	0	6		
DDOR012	Yes	Bay Area	Mission	Feeder	NEWARK 2111	INSTALL NEWARK 2111	1/10/2022	\$3,180	N	\$18	-	GNA_0122322_Capacity	0122322	NEWARK BANK 22	Capacity	CC	MW	4502	995	349	0	37	5883		
DDOR013	Yes	Bay Area	Peninsula	Feeder	EAST GRAND 1116 AND 1117	INSTALL EAST GRAND 1116 & 1117 FEEDERS	2/1/2022	\$3,236	N	\$18	-	GNA_022571113_Capacity	022571113	EAST GRAND 1113	Capacity	CC	MW	0	8	22	0	1	31		
DDOR013	Yes	Bay Area	Peninsula	Feeder	EAST GRAND 1116 AND 1117	INSTALL EAST GRAND 1116 & 1117 FEEDERS	2/1/2022	\$3,236	N	\$18	-	GNA_0225705_Capacity	0225705	EAST GRAND BANK 5	Capacity	CC	MW	3089	752	263	0	13	4117		
DDOR013	Yes	Bay Area	Peninsula	Feeder	EAST GRAND 1116 AND 1117	INSTALL EAST GRAND 1116 & 1117 FEEDERS	2/1/2022	\$3,236	N	\$18	-	GNA_022571109_Capacity	022571109	EAST GRAND 1109	Capacity	CC	MW	359	64	43	1	13	480		
DDOR013	Yes	Bay Area	Peninsula	Feeder	EAST GRAND 1116 AND 1117	INSTALL EAST GRAND 1116 & 1117 FEEDERS	2/1/2022	\$3,236	N	\$18	-	GNA_0225704_Capacity	0225704	EAST GRAND BANK 4	Capacity	CC	MW	2163	910	408	16	23	3520		
DDOR013	Yes	Bay Area	Peninsula	Feeder	EAST GRAND 1116 AND 1117	INSTALL EAST GRAND 1116 & 1117 FEEDERS	2/1/2022	\$3,236	N	\$18	-	GNA_022571107_Capacity	022571107	EAST GRAND 1107	Capacity	CC	MW	1000	435	159	15	12	1621		
DDOR014	Yes	Bay Area	San Francisco	Line Section	MISSION X 1113	MISSION X1113 CIRCUIT REINFORCEMENT	6/1/2022	\$4,375	N	\$0	-	GNA_022011125_Capacity	022011125	MISSION (SF X) 1125	Capacity	CC	MW	2404	450	220	8	6	3088		
DDOR015	Yes	Bay Area	San Francisco	Feeder	POTRERO A 1108	RECABLE POTRERO A 1118	6/1/2022	\$2,925	N	\$11	-	GNA_022031108_Capacity	022031108	POTRERO (SF A) 1108	Capacity	14.96	MW	3482	266	193	0	14	3955		
DDOR016	Yes	Bay Area	San Francisco	Feeder	MISSION (SF X) 1120	RECONDUCTOR X-1120	6/1/2022	\$3,725	N	\$189	-	GNA_022011120_Capacity	022011120	MISSION (SF X) 1120	Capacity	CC	MW	1188	527	61	0	0	1776		
DDOR017	Yes	Bay Area	Mission	Bank and Feeder	JARVIS BANK 2 AND 1107	REPLACE JARVIS BANK 2 AND INSTALL JARVIS 1107	7/31/2022	\$10,854	N	\$273	-	GNA_013501112_Resiliency	013501112	JARVIS 1112	Resiliency	1.43	MW	6725	241	51	2	34	7053		
DDOR017	Yes	Bay Area	Mission	Bank and Feeder	JARVIS BANK 2 AND 1107	REPLACE JARVIS BANK 2 AND INSTALL JARVIS 1107	7/31/2022	\$10,854	N	\$273	-	GNA_013501105_Resiliency	013501105	JARVIS 1105	Resiliency	0.14	MW	5689	164	43	1	21	5918		
DDOR017	Yes	Bay Area	Mission	Bank and Feeder	JARVIS BANK 2 AND 1107	REPLACE JARVIS BANK 2 AND INSTALL JARVIS 1107	7/31/2022	\$10,854	N	\$273	-	GNA_013501111_Resiliency	013501111	JARVIS 1111	Resiliency	CC	MW	5331	346	53	0	29	5759		
DDOR018	Yes	Central Valley	Stockton	Feeder	LAMMERS 1104 AND 1108	INSTALL LAMMERS 1104 & 1108 BREAKERS	12/1/2022	\$3,231	N	\$27	-	GNA_1627701_Capacity	1627701	LAMMERS BANK 1	Capacity	CC	MW	3897	161	90	11	15	4174		
DDOR018	Yes	Central Valley	Stockton	Feeder	LAMMERS 1104 AND 1108	INSTALL LAMMERS 1104 & 1108 BREAKERS	12/1/2022	\$3,231	N	\$27	-	GNA_162771101_Capacity	162771101	LAMMERS 1101	Capacity	CC	MW	34	50	49	6	10	149		
DDOR018	Yes	Central Valley	Stockton	Feeder	LAMMERS 1104 AND 1108	INSTALL LAMMERS 1104 & 1108 BREAKERS	12/1/2022	\$3,231	N	\$27	-	GNA_162771102_Capacity	162771102	LAMMERS 1102	Capacity	1.96	MW	2740	76	5	3	4	2828		
DDOR018	Yes	Central Valley	Stockton	Feeder	LAMMERS 1104 AND 1108	INSTALL LAMMERS 1104 & 1108 BREAKERS	12/1/2022	\$3,231	N	\$27	-	GNA_162771106_Capacity	162771106	LAMMERS 1106	Capacity	2.59	MW	1936							



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DDOR052	Yes	South Bay and Central Coast	Central Coast	Bank and Feeder	MONTEREY BANK 1	REPLACE MONTEREY BANK 1	5/1/2023	\$23,662	N	\$228	-	GNA_182222104_Resiliency	182222104	DEL MONTE 2104	Resiliency	1.32	MW	5443	916	259	11	14	6643	
DDOR052	Yes	South Bay and Central Coast	Central Coast	Bank and Feeder	MONTEREY BANK 1	REPLACE MONTEREY BANK 1	5/1/2023	\$23,662	N	\$228	-	GNA_182222105_Resiliency	182222105	DEL MONTE 2105	Resiliency	6.37	MW	5484	931	222	0	9	6646	
DDOR053	Yes	South Bay and Central Coast	Los Padres	Feeder	SAN LUIS OBISPO 1106	INSTALL NEW FEEDER	5/1/2023	\$3,451	N	\$86	-	GNA_1829501_Capacity	1829501	FOOTHILL BANK 1	Capacity	1.29	MW	3286	236	103	39	5	3669	
DDOR053	Yes	South Bay and Central Coast	Los Padres	Feeder	SAN LUIS OBISPO 1106	INSTALL NEW FEEDER	5/1/2023	\$3,451	N	\$86	-	GNA_182631102_Capacity	182631102	SAN LUIS OBISPO 1102	Capacity	1.67	MW	3215	407	141	3	6	3772	
DDOR053	Yes	South Bay and Central Coast	Los Padres	Feeder	SAN LUIS OBISPO 1106	INSTALL NEW FEEDER	5/1/2023	\$3,451	N	\$86	-	GNA_182631108_Capacity	182631108	SAN LUIS OBISPO 1108	Capacity	1.88	MW	1701	863	228	2	10	2804	
DDOR054	Yes	North Valley and Sierra	North Bay	Bank	CALISTOGA BANK 1	REPLACE CALISTOGA BANK 1	5/1/2023	\$7,350	N	\$104	-	GNA_0427101_Capacity	0427101	CALISTOGA BANK 1	Capacity	1.45	MW	2935	545	111	207	34	3832	
DDOR054	Yes	North Valley and Sierra	North Bay	Bank	CALISTOGA BANK 1	REPLACE CALISTOGA BANK 1	5/1/2023	\$7,350	N	\$104	-	GNA_042711102_Capacity	042711102	CALISTOGA 1102	Capacity	2.53	MW	1639	334	87	80	16	2156	
DDOR055	Yes	North Valley and Sierra	North Bay	Feeder	TULUCAY 1102	INSTALL TULUCAY 1102	5/1/2023	\$4,400	N	\$19	-	GNA_042461105_Capacity	042461105	BASALT 1105	Capacity	CC	MW	0	179	118	1	2	300	
DDOR055	Yes	North Valley and Sierra	North Bay	Feeder	TULUCAY 1102	INSTALL TULUCAY 1102	5/1/2023	\$4,400	N	\$19	-	GNA_042301101_Capacity	042301101	TULUCAY 1101	Capacity	CC	MW	44	212	233	13	6	508	
DDOR056	Yes	Central Valley	Yosemite	Bank and Feeder	ORTIGA NEW BANK AND FEEDER	INSTALL NEW BANK & FEEDER	5/1/2024	\$12,800	N	\$52	-	GNA_2520901_Capacity	2520901	CANAL BANK 1	Capacity	CC	MW	2046	127	117	12	13	2315	
DDOR056	Yes	Central Valley	Yosemite	Bank and Feeder	ORTIGA NEW BANK AND FEEDER	INSTALL NEW BANK & FEEDER	5/1/2024	\$12,800	N	\$52	-	GNA_252091101_Capacity	252091101	CANAL 1101	Capacity	CC	MW	439	10	3	9	2	463	
DDOR056	Yes	Central Valley	Yosemite	Bank and Feeder	ORTIGA NEW BANK AND FEEDER	INSTALL NEW BANK & FEEDER	5/1/2024	\$12,800	N	\$52	-	GNA_252091104_Capacity	252091104	CANAL 1104	Capacity	CC	MW	410	48	54	0	0	512	
DDOR056	Yes	Central Valley	Yosemite	Bank and Feeder	ORTIGA NEW BANK AND FEEDER	INSTALL NEW BANK & FEEDER	5/1/2024	\$12,800	N	\$52	-	GNA_252091106_Capacity	252091106	CANAL 1106	Capacity	0.99	MW	1197	69	60	3	11	1340	
DDOR056	Yes	Central Valley	Yosemite	Bank and Feeder	ORTIGA NEW BANK AND FEEDER	INSTALL NEW BANK & FEEDER	5/1/2024	\$12,800	N	\$52	-	GNA_2520902_Capacity	2520902	CANAL BANK 2	Capacity	CC	MW	3329	146	56	88	5	3624	
DDOR056	Yes	Central Valley	Yosemite	Bank and Feeder	ORTIGA NEW BANK AND FEEDER	INSTALL NEW BANK & FEEDER	5/1/2024	\$12,800	N	\$52	-	GNA_2543101_Capacity	2543101	ORTIGA BANK 1	Capacity	2.93	MW	2730	190	52	213	16	3201	
DDOR056	Yes	Central Valley	Yosemite	Bank and Feeder	ORTIGA NEW BANK AND FEEDER	INSTALL NEW BANK & FEEDER	5/1/2024	\$12,800	N	\$52	-	GNA_2546403_Capacity	2546403	WRIGHT BANK 3	Capacity	CC	MW	40	2	0	43	0	85	
DDOR056	Yes	Central Valley	Yosemite	Bank and Feeder	ORTIGA NEW BANK AND FEEDER	INSTALL NEW BANK & FEEDER	5/1/2024	\$12,800	N	\$52	-	GNA_254641110_Capacity	254641110	WRIGHT 1110	Capacity	CC	MW	40	2	0	43	0	85	
DDOR057	Yes	Central Valley	Kern	Feeder	SEMITROPIC 1108	RECONDUCTOR EXISTING CIRCUIT	5/1/2022	\$2,300	N	\$8	-	GNA_2529003_Capacity	2529003	SEMITROPIC BANK 3	Capacity	CC	MW	1887	133	44	378	5	2447	
DDOR057	Yes	Central Valley	Kern	Feeder	SEMITROPIC 1108	RECONDUCTOR EXISTING CIRCUIT	5/1/2022	\$2,300	N	\$8	-	GNA_252901108_Capacity	252901108	SEMITROPIC 1108	Capacity	CC	MW	6	4	0	36	1	47	
DDOR058	Yes	Central Valley	Kern	Bank	WHEELER RIDGE BANK 1	REPLACE WHEELER RIDGE BANK 1	5/1/2023	\$2,500	N	\$19	-	GNA_2534801_Capacity	2534801	WHEELER RIDGE BANK 1	Capacity	CC	MW	134	93	20	314	46	607	
DDOR059	Yes	Central Valley	Fresno	Feeder	FIGARDEN 2114	INSTALL NEW FEEDER	5/1/2023	\$950	N	\$34	-	GNA_254552102_Capacity	254552102	FIGARDEN 2102	Capacity	3.34	MW	4304	456	137	61	41	4999	
DDOR060	Yes	Central Valley	Stockton	Feeder	VIERRA 1704	INSTALL NEW FEEDER	5/1/2023	\$1,900	N	\$8	-	GNA_1626108_Capacity	1626108	MANTECA BANK 8	Capacity	5.96	MW	4878	455	258	3	17	5611	
DDOR060	Yes	Central Valley	Stockton	Feeder	VIERRA 1704	INSTALL NEW FEEDER	5/1/2023	\$1,900	N	\$8	-	GNA_162611708_Capacity	162611708	MANTECA 1708	Capacity	0.59	MW	3938	203	65	2	6	4214	
DDOR060	Yes	Central Valley	Stockton	Feeder	VIERRA 1704	INSTALL NEW FEEDER	5/1/2023	\$1,900	N	\$8	-	GNA_1627002_Capacity	1627002	VIERRA BANK 2	Capacity	8.83	MW	5800	291	269	100	31	6491	
DDOR060	Yes	Central Valley	Stockton	Feeder	VIERRA 1704	INSTALL NEW FEEDER	5/1/2023	\$1,900	N	\$8	-	GNA_162701706_Capacity	162701706	VIERRA 1706	Capacity	11.97	MW	2629	166	240	1	20	3056	
DDOR061	Yes	North Valley and Sierra	Sierra	Feeder	BOGUE 1108	INSTALL BOGUE 1108	6/1/2023	\$2,096	N	\$52	-	GNA_153781105_Capacity	153781105	BOGUE 1105	Capacity	1.55	MW	3148	80	19	12	5	3264	
DDOR061	Yes	North Valley and Sierra	Sierra	Feeder	BOGUE 1108	INSTALL BOGUE 1108	6/1/2023	\$2,096	N	\$52	-	GNA_153781106_Capacity	153781106	BOGUE 1106	Capacity	0.84	MW	1610	167	35	237	7	2056	
DDOR061	Yes	North Valley and Sierra	Sierra	Feeder	BOGUE 1108	INSTALL BOGUE 1108	6/1/2023	\$2,096	N	\$52	-	GNA_153781105_Reliability	153781105	BOGUE 1105	Reliability	2.51	MW	3148	80	19	12	5	3264	
DDOR062	Yes	Bay Area	East Bay	Feeder	EDES 1102	INSTALL EDES 1102 FEEDER	6/1/2023	\$2,420	N	\$42	-	GNA_0136803_Capacity	0136803	EDES BANK 3	Capacity	CC	MW	6508	735	372	3	73	7691	
DDOR063	Yes	Bay Area	East Bay	Feeder	SAN PABLO 1104	INSTALL SAN PABLO 1104	6/1/2023	\$5,420	N	\$222	-	GNA_0142601_Capacity	0142601	POINT PINOLE BANK 1	Capacity	2.20	MW	8785	342	130	0	7	9264	
DDOR063	Yes	Bay Area	East Bay	Feeder	SAN PABLO 1104	INSTALL SAN PABLO 1104	6/1/2023	\$5,420	N	\$222	-	GNA_0143402_Capacity	0143402	VALLEY VIEW BANK 2	Capacity	0.74	MW	6217	241	39	0	6	6503	
DDOR064	Yes	South Bay and Central Coast	Central Coast	Feeder	HOLLISTER BANK 2	INSTALL NEW FEEDER	6/1/2023	\$8,250	N	\$31	-	GNA_1824903_Capacity	1824903	HOLLISTER BANK 3	Capacity	22.32	MW	8269	1224	254	345	50	10142	
DDOR064	Yes	South Bay and Central Coast	Central Coast	Feeder	HOLLISTER BANK 2	INSTALL NEW FEEDER	6/1/2023	\$8,250	N	\$31	-	GNA_182492104_Capacity	182492104	HOLLISTER 2104	Capacity	9.30	MW	1297	478	133	188	19	2115	
DDOR065	Yes	South Bay and Central Coast	De Anza	Bank	MOUNTAIN VIEW BANK 1	REPLACE MOUNTAIN VIEW BANK 1	6/1/2023	\$6,000	N	\$74	-	GNA_0820301_Capacity	0820301	MOUNTAIN VIEW BANK 1	Capacity	4.58	MW	12699	814	255	0	45	13813	
DDOR066	Yes	South Bay and Central Coast	De Anza	Line Section	VASONA 1109	INSTALL NEW FEEDER	6/1/2025	\$2,775	Y	\$148	-	GNA_083371104_Capacity	083371104	SARATOGA 1104	Capacity	CC	MW	1679	45	5	1	10	1740	
DDOR067	Yes	North Coast	Humboldt	Bank and Feeder	RIO DELL BANK	INSTALL BANK AND STEPDOWN	6/1/2023	\$16,800	N	\$107	-	GNA_1922501_Capacity	1922501	RIO DELL BANK 1	Capacity	CC	MW	151	5	0	0	1	157	
DDOR067	Yes	North Coast	Humboldt	Bank and Feeder	RIO DELL BANK	INSTALL BANK AND STEPDOWN	6/																	

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DDOR085	Yes	Central Valley	Stockton	Feeder	RIPON 1705	INSTALL NEW FEEDER	5/1/2024	\$2,261	N	\$20	-	GNA_162701707_Capacity	162701707	VIERRA 1707	Capacity	5.91	MW	3171	125	29	99	11	3435	
DDOR086	Yes	Central Valley	Stockton	Bank and Feeder	FRENCH CAMP BANK 1	REPLACE BANK AND INSTALL NEW FEEDER	5/1/2024	\$10,000	N	\$174	-	GNA_1632901_Capacity	1632901	FRENCH CAMP BANK 1	Capacity	CC	MW	1150	211	68	339	19	1787	
DDOR086	Yes	Central Valley	Stockton	Bank and Feeder	FRENCH CAMP BANK 1	REPLACE BANK AND INSTALL NEW FEEDER	5/1/2024	\$10,000	N	\$174	-	GNA_1632902_Capacity	1632902	FRENCH CAMP BANK 2	Capacity	CC	MW	2982	69	11	13	12	3087	
DDOR086	Yes	Central Valley	Stockton	Bank and Feeder	FRENCH CAMP BANK 1	REPLACE BANK AND INSTALL NEW FEEDER	5/1/2024	\$10,000	N	\$174	-	GNA_163291104_Capacity	163291104	FRENCH CAMP 1104	Capacity	0.90	MW	2981	64	5	11	12	3073	
DDOR087	Yes	Central Valley	Stockton	Feeder	VIERRA BANK 3	INSTALL NEW BANK AND NEW FEEDERS	5/1/2024	\$16,500	N	\$962	-	GNA_1626106_Capacity	1626106	MANTECA BANK 6	Capacity	CC	MW	5184	388	112	73	31	5788	
DDOR088	Yes	Central Valley	Yosemite	Bank and Feeder	HAMMONDS BANK 1	REPLACE HAMMONDS BANK 1	5/1/2024	\$7,000	N	\$31	-	GNA_2534001_Capacity	2534001	HAMMONDS BANK 1	Capacity	CC	MW	58	55	5	254	7	379	
DDOR088	Yes	Central Valley	Yosemite	Bank and Feeder	HAMMONDS BANK 1	REPLACE HAMMONDS BANK 1	5/1/2024	\$7,000	N	\$31	-	GNA_253401104_Capacity	253401104	HAMMONDS 1104	Capacity	CC	MW	8	10	0	54	0	72	
DDOR089	Yes	Central Valley	Yosemite	Bank and Feeder	BONITA BANK 2	INSTALL NEW BANK AND FEEDER	5/1/2024	\$12,800	N	\$1,334	-	GNA_2553901_Capacity	2553901	BONITA BANK 1	Capacity	0.91	MW	1000	91	16	430	12	1549	
DDOR091	Yes	South Bay and Central Coast	Central Coast	Bank and Feeder	CHUALAR BANK 1	INSTALL NEW BANK	5/1/2025	\$15,742	Y	\$23	-	GNA_1822002_Capacity	1822002	SPENCE BANK 2	Capacity	CC	MW	211	128	22	164	4	529	
DDOR091	Yes	South Bay and Central Coast	Central Coast	Bank and Feeder	CHUALAR BANK 1	INSTALL NEW BANK	5/1/2025	\$15,742	Y	\$23	-	GNA_182201104_Capacity	182201104	SPENCE 1104	Capacity	6.88	MW	193	105	17	144	4	463	
DDOR091	Yes	South Bay and Central Coast	Central Coast	Bank and Feeder	CHUALAR BANK 1	INSTALL NEW BANK	5/1/2025	\$15,742	Y	\$23	-	GNA_182201102_Capacity	182201102	SPENCE 1102	Capacity	CC	MW	96	29	9	146	0	280	
DDOR091	Yes	South Bay and Central Coast	Central Coast	Bank and Feeder	CHUALAR BANK 1	INSTALL NEW BANK	5/1/2025	\$15,742	Y	\$23	-	GNA_1822001_Capacity	1822001	SPENCE BANK 1	Capacity	CC	MW	134	40	9	218	0	401	
DDOR092	Yes	South Bay and Central Coast	Los Padres	Bank and Feeder	SAN MIGUEL BANK 2	SAN MIGUEL SUB - INSTALL 30 MVA BANK	6/1/2024	\$19,760	N	\$3,811	-	GNA_1826601_Capacity	1826601	SAN MIGUEL BANK 1	Capacity	CC	MW	2105	336	71	328	7	2847	
DDOR093	Yes	Bay Area	Diablo	Bank	WILLOW PASS BANK 1	REPLACE WILLOW PASS BANK 1	6/1/2024	\$16,150	N	\$136	-	GNA_0139103_Capacity	0139103	WILLOW PASS BANK 3	Capacity	6.56	MW	8780	242	52	0	21	9095	
DDOR094	Yes	North Coast	Humboldt	Bank and Feeder	GARBERVILLE BANK 2	INSTALL BANK AND STEPDOWN, EXTEND FEEDER	6/1/2024	\$54,100	N	\$420	-	GNA_1922201_Capacity	1922201	GARBERVILLE BANK 1	Capacity	8.81	MW	2407	720	93	52	44	3316	
DDOR094	Yes	North Coast	Humboldt	Bank and Feeder	GARBERVILLE BANK 2	INSTALL BANK AND STEPDOWN, EXTEND FEEDER	6/1/2024	\$54,100	N	\$420	-	GNA_192221102_Capacity	192221102	GARBERVILLE 1102	Capacity	3.37	MW	1355	367	47	31	14	1814	
DDOR095	Yes	Central Valley	Yosemite	Bank and Feeder	NEWHALL BANK 3	REPLACE BANK AND INSTALL NEW FEEDER	6/1/2024	\$17,000	N	\$472	-	GNA_2544603_Capacity	2544603	NEWHALL BANK 3	Capacity	CC	MW	10	21	1	182	2	216	
DDOR095	Yes	Central Valley	Yosemite	Bank and Feeder	NEWHALL BANK 3	REPLACE BANK AND INSTALL NEW FEEDER	6/1/2024	\$17,000	N	\$472	-	GNA_254461109_Capacity	254461109	NEWHALL 1109	Capacity	CC	MW	10	21	1	182	2	216	
DDOR096	Yes	South Bay and Central Coast	De Anza	Feeder	WOLFE 1111 AND 1112	INSTALL NEW FEEDERS	6/1/2024	\$8,788	N	\$33	-	GNA_083371109_Capacity	083371109	SARATOGA 1109	Capacity	CC	MW	4736	90	14	0	19	4859	
DDOR096	Yes	South Bay and Central Coast	De Anza	Feeder	WOLFE 1111 AND 1112	INSTALL NEW FEEDERS	6/1/2024	\$8,788	N	\$33	-	GNA_083371110_Capacity	083371110	SARATOGA 1110	Capacity	0.59	MW	4632	243	113	0	10	4998	
DDOR096	Yes	South Bay and Central Coast	De Anza	Feeder	WOLFE 1111 AND 1112	INSTALL NEW FEEDERS	6/1/2024	\$8,788	N	\$33	-	GNA_083371114_Capacity	083371114	SARATOGA 1114	Capacity	0.63	MW	5547	156	49	0	21	5773	
DDOR096	Yes	South Bay and Central Coast	De Anza	Feeder	WOLFE 1111 AND 1112	INSTALL NEW FEEDERS	6/1/2024	\$8,788	N	\$33	-	GNA_083671105_Capacity	083671105	WOLFE 1105	Capacity	CC	MW	1944	137	129	0	17	2227	
DDOR097	Yes	North Valley and Sierra	Sacramento	Bank and Feeder	PLAINFIELD BANK 1	REPLACE BANK AND INSTALL NEW FEEDER	6/1/2024	\$14,000	N	\$864	-	GNA_062041109_Capacity	062041109	DAVIS 1109	Capacity	0.90	MW	3430	191	67	2	6	3696	
DDOR098	Yes	South Bay and Central Coast	San Jose	Feeder	MC KEE 1102	INSTALL NEW FEEDER	6/1/2024	\$11,700	N	\$161	-	GNA_0835301_Capacity	0835301	MC KEE BANK 1	Capacity	2.94	MW	7589	406	133	0	38	8166	
DDOR098	Yes	South Bay and Central Coast	San Jose	Feeder	MC KEE 1102	INSTALL NEW FEEDER	6/1/2024	\$11,700	N	\$161	-	GNA_083531107_Capacity	083531107	MC KEE 1107	Capacity	1.88	MW	3853	133	26	5	19	4036	
DDOR098	Yes	South Bay and Central Coast	San Jose	Feeder	MC KEE 1102	INSTALL NEW FEEDER	6/1/2024	\$11,700	N	\$161	-	GNA_083531108_Capacity	083531108	MC KEE 1108	Capacity	CC	MW	117	4	0	0	2	123	
DDOR098	Yes	South Bay and Central Coast	San Jose	Feeder	MC KEE 1102	INSTALL NEW FEEDER	6/1/2024	\$11,700	N	\$161	-	GNA_083531110_Capacity	083531110	MC KEE 1110	Capacity	1.17	MW	5576	104	17	0	12	5709	
DDOR1000	No	Central Valley	Fresno	Feeder	GATES 1101	INSTALL NEW FEEDERS	5/1/2024	\$2,800	N	\$56	-	GNA_253931101_Capacity	253931101	GATES 1101	Capacity	CC	MW	13	25	11	29	6	84	
DDOR1001	No	Central Valley	Fresno	Feeder	CAMDEN 1106	INSTALL NEW CAMDEN 1106 FEEDER	5/31/2025	\$13,808	Y	\$232	-	GNA_252891110_Capacity	252891110	SCHINDLER 1110	Capacity	CC	MW	64	41	9	116	2	232	
DDOR1001	No	Central Valley	Fresno	Feeder	CAMDEN 1106	INSTALL NEW CAMDEN 1106 FEEDER	5/31/2025	\$13,808	Y	\$232	-	GNA_252681110_Capacity	252681110	HENRIETTA 1110	Capacity	0.27	MW	106	16	3	187	2	314	
DDOR1001	No	Central Valley	Fresno	Feeder	CAMDEN 1106	INSTALL NEW CAMDEN 1106 FEEDER	5/31/2025	\$13,808	Y	\$232	-	GNA_2523001_Capacity	2523001	CAMDEN BANK 1	Capacity	CC	MW	1554	201	31	1086	36	2908	
DDOR1001	No	Central Valley	Fresno	Feeder	CAMDEN 1106	INSTALL NEW CAMDEN 1106 FEEDER	5/31/2025	\$13,808	Y	\$232	-	GNA_252301103_Capacity	252301103	CAMDEN 1103	Capacity	1.32	MW	910	103	14	603	6	1636	
DDOR1001	No	Central Valley	Fresno	Feeder	CAMDEN 1106	INSTALL NEW CAMDEN 1106 FEEDER	5/31/2025	\$13,808	Y	\$232	-	GNA_2537101_Capacity	2537101	HARDWICK BANK 1	Capacity	2.25	MW	1011	169	20	789	8	1997	
DDOR1002	No	Central Valley	Fresno	Feeder	WEST FRESNO 1113	INSTALL NEW FEEDERS	5/31/2024	\$8,000	N	\$81	-	GNA_2522101_Capacity	2522101	BIOLA BANK 1	Capacity	CC	MW	1213	202	20	1005	17	2457	
DDOR1002	No	Central Valley	Fresno	Feeder	WEST FRESNO 1113	INSTALL NEW FEEDERS	5/31/2024	\$8,000	N	\$81	-	GNA_2527003_Capacity	2527003	KEARNEY BANK 3	Capacity	CC	MW	1317	34	3	42	5	1401	
DDOR1002	No	Central Valley	Fresno	Feeder	WEST FRESNO 1113	INSTALL NEW FEEDERS	5/31/2024	\$8,000	N	\$81	-	GNA_252711106_Capacity	252711106	KERMAN 1106	Capacity	CC	MW	83	34	10	208	2	337	
DDOR1002	No	Central Valley	Fresno	Feeder	WEST FRESNO 1113	INSTALL NEW FEEDERS	5/31/2																	

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DDOR1026	No	Bay Area	Peninsula	Bank and Feeder	RAVENSWOOD SUBSTATION	NEW RAVENSWOOD DISTRIBUTION SUBSTATION	4/1/2025	\$40,747	Y	\$52	-	GNA_0240203_Capacity	0240203	BELLE HAVEN BANK 3	Capacity	40.79	MW	816	197	176	0	10	1199
DDOR1027	No	Bay Area	Peninsula	Bank and Feeder	MILLBRAE SUBSTATION	INSTALL BANK 2 AND MILLBRAE 1109 FEEDER	5/2/2025	\$18,026	Y	\$107	-	GNA_0226904_Capacity	0226904	MILLBRAE BANK 4	Capacity	CC	MW	5272	465	212	0	19	5968
DDOR1027	No	Bay Area	Peninsula	Bank and Feeder	MILLBRAE SUBSTATION	INSTALL BANK 2 AND MILLBRAE 1109 FEEDER	5/2/2025	\$18,026	Y	\$107	-	GNA_022691101_Capacity	022691101	MILLBRAE 1101	Capacity	CC	MW	0	238	96	0	4	338
DDOR1027	No	Bay Area	Peninsula	Bank and Feeder	MILLBRAE SUBSTATION	INSTALL BANK 2 AND MILLBRAE 1109 FEEDER	5/2/2025	\$18,026	Y	\$107	-	GNA_0225701_Capacity	0225701	EAST GRAND BANK 1	Capacity	CC	MW	6906	417	142	7	26	7498
DDOR1027	No	Bay Area	Peninsula	Bank and Feeder	MILLBRAE SUBSTATION	INSTALL BANK 2 AND MILLBRAE 1109 FEEDER	5/2/2025	\$18,026	Y	\$107	-	GNA_022571112_Capacity	022571112	EAST GRAND 1112	Capacity	CC	MW	0	15	14	0	0	29
DDOR1029	No	Central Valley	Kern	Bank and Feeder	7TH STANDARD BANK 2	INSTALL 7TH STANDARD BANK 2	5/1/2025	\$20,464	Y	\$48	-	GNA_2545801_Capacity	2545801	7TH STANDARD BANK 1	Capacity	CC	MW	6320	253	107	89	27	6796
DDOR1029	No	Central Valley	Kern	Bank and Feeder	7TH STANDARD BANK 2	INSTALL 7TH STANDARD BANK 2	5/1/2025	\$20,464	Y	\$48	-	GNA_254582102_Capacity	254582102	7TH STANDARD 2102	Capacity	CC	MW	1705	61	72	41	7	1886
DDOR1029	No	Central Valley	Kern	Bank and Feeder	7TH STANDARD BANK 2	INSTALL 7TH STANDARD BANK 2	5/1/2025	\$20,464	Y	\$48	-	GNA_254582103_Capacity	254582103	7TH STANDARD 2103	Capacity	1.06	MW	779	65	11	47	16	918
DDOR103	Yes	North Coast	Sonoma	Feeder	RINCON 1105	INSTALL NEW FEEDER	5/1/2024	\$1,200	N	\$39	-	GNA_0433202_Capacity	0433202	RINCON BANK 2	Capacity	3.62	MW	4081	267	74	17	25	4464
DDOR1030	No	Central Valley	Kern	Bank and Feeder	FAMOSO BANK 1	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$12,480	Y	\$93	-	GNA_2524601_Capacity	2524601	FAMOSO BANK 1	Capacity	CC	MW	83	110	28	343	16	580
DDOR1030	No	Central Valley	Kern	Bank and Feeder	FAMOSO BANK 1	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$12,480	Y	\$93	-	GNA_252461103_Capacity	252461103	FAMOSO 1103	Capacity	CC	MW	36	49	6	74	5	170
DDOR1031	No	Central Valley	Kern	Bank and Feeder	SEMITROPIC BANK 4	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$24,179	Y	\$51	-	GNA_252901110_Capacity	252901110	SEMITROPIC 1110	Capacity	2.89	MW	1834	105	38	148	4	2129
DDOR1031	No	Central Valley	Kern	Bank and Feeder	SEMITROPIC BANK 4	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$24,179	Y	\$51	-	GNA_2545401_Capacity	2545401	GANSO BANK 1	Capacity	CC	MW	62	42	9	187	5	305
DDOR1031	No	Central Valley	Kern	Bank and Feeder	SEMITROPIC BANK 4	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$24,179	Y	\$51	-	GNA_254541103_Capacity	254541103	GANSO 1103	Capacity	CC	MW	28	23	7	74	4	136
DDOR1031	No	Central Valley	Kern	Bank and Feeder	SEMITROPIC BANK 4	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$24,179	Y	\$51	-	GNA_2542001_Capacity	2542001	GOOSE LAKE BANK 1	Capacity	CC	MW	595	92	44	146	13	890
DDOR1031	No	Central Valley	Kern	Bank and Feeder	SEMITROPIC BANK 4	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$24,179	Y	\$51	-	GNA_254202104_Capacity	254202104	GOOSE LAKE 2104	Capacity	CC	MW	579	65	40	47	10	741
DDOR1031	No	Central Valley	Kern	Bank and Feeder	SEMITROPIC BANK 4	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$24,179	Y	\$51	-	GNA_2529003_Capacity	2529003	SEMITROPIC BANK 3	Capacity	CC	MW	1887	133	44	378	5	2447
DDOR1031	No	Central Valley	Kern	Bank and Feeder	SEMITROPIC BANK 4	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$24,179	Y	\$51	-	GNA_252901108_Capacity	252901108	SEMITROPIC 1108	Capacity	CC	MW	6	4	0	36	1	47
DDOR1031	No	Central Valley	Kern	Bank and Feeder	SEMITROPIC BANK 4	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$24,179	Y	\$51	-	GNA_2529601_Capacity	2529601	WASCO BANK 1	Capacity	CC	MW	2510	353	83	34	12	2992
DDOR1031	No	Central Valley	Kern	Bank and Feeder	SEMITROPIC BANK 4	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$24,179	Y	\$51	-	GNA_252961102_Capacity	252961102	WASCO 1102	Capacity	CC	MW	1342	166	47	4	5	1564
DDOR1032	No	Central Valley	Kern	Bank and Feeder	TEVIS BANK 1	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$35,547	Y	\$57	-	GNA_2553201_Capacity	2553201	TEVIS BANK 1	Capacity	CC	MW	8135	251	90	49	25	8550
DDOR1032	No	Central Valley	Kern	Bank and Feeder	TEVIS BANK 1	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$35,547	Y	\$57	-	GNA_255322101_Capacity	255322101	TEVIS 2101	Capacity	2.66	MW	3391	99	39	41	11	3581
DDOR1032	No	Central Valley	Kern	Bank and Feeder	TEVIS BANK 1	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$35,547	Y	\$57	-	GNA_255322102_Capacity	255322102	TEVIS 2102	Capacity	CC	MW	3895	110	6	1	11	4023
DDOR1032	No	Central Valley	Kern	Bank and Feeder	TEVIS BANK 1	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$35,547	Y	\$57	-	GNA_2553202_Capacity	2553202	TEVIS BANK 2	Capacity	2.46	MW	5932	324	239	36	21	6552
DDOR1032	No	Central Valley	Kern	Bank and Feeder	TEVIS BANK 1	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$35,547	Y	\$57	-	GNA_255322104_Capacity	255322104	TEVIS 2104	Capacity	3.78	MW	3932	159	67	36	11	4205
DDOR1032	No	Central Valley	Kern	Bank and Feeder	TEVIS BANK 1	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$35,547	Y	\$57	-	GNA_2534201_Capacity	2534201	PANAMA BANK 1	Capacity	14.86	MW	10301	485	109	81	70	11046
DDOR1032	No	Central Valley	Kern	Bank and Feeder	TEVIS BANK 1	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$35,547	Y	\$57	-	GNA_253422101_Capacity	253422101	PANAMA 2101	Capacity	12.93	MW	4587	277	49	46	43	5002
DDOR1032	No	Central Valley	Kern	Bank and Feeder	TEVIS BANK 1	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$35,547	Y	\$57	-	GNA_254572101_Capacity	254572101	RENFRO 2101	Capacity	0.63	MW	4062	167	25	47	14	4315
DDOR1032	No	Central Valley	Kern	Bank and Feeder	TEVIS BANK 1	INSTALL BANK AND NEW FEEDERS	5/1/2025	\$35,547	Y	\$57	-	GNA_254072112_Capacity	254072112	STOCKDALE 2112	Capacity	8.68	MW	5456	125	82	44	34	5741
DDOR1033	No	Central Valley	Stockton	Bank and Feeder	WEBER BANK 7	INSTALL NEW BANK AND NEW FEEDER	5/1/2025	\$18,101	Y	\$61	-	GNA_1634806_Capacity	1634806	WEBER BANK 6	Capacity	CC	MW	2528	429	213	136	55	3361
DDOR1033	No	Central Valley	Stockton	Bank and Feeder	WEBER BANK 7	INSTALL NEW BANK AND NEW FEEDER	5/1/2025	\$18,101	Y	\$61	-	GNA_163481110_Capacity	163481110	WEBER 1110	Capacity	20.26	MW	201	88	60	13	11	373
DDOR1034	No	North Valley and Sierra	North Bay	Bank and Feeder	TULUCAY BANK 4	INSTALL NEW BANK AND FEEDER	5/31/2025	\$17,080	Y	\$37	-	GNA_0424601_Capacity	0424601	BASALT BANK 1	Capacity	CC	MW	1471	46	18	1	0	1536
DDOR1034	No	North Valley and Sierra	North Bay	Bank and Feeder	TULUCAY BANK 4	INSTALL NEW BANK AND FEEDER	5/31/2025	\$17,080	Y	\$37	-	GNA_0424602_Capacity	0424602	BASALT BANK 2	Capacity	CC	MW	2956	409	172	145	10	3692
DDOR1034	No	North Valley and Sierra	North Bay	Bank and Feeder	TULUCAY BANK 4	INSTALL NEW BANK AND FEEDER	5/31/2025	\$17,080	Y	\$37	-	GNA_042461105_Capacity	042461105	BASALT 1105	Capacity	CC	MW	0	179	118	1	2	300
DDOR104	Yes	North Coast	Sonoma	Bank and Feeder	FULTON BANK 5	REPLACE BANK	5/1/2024	\$13,100	N	\$49	-	GNA_042561101_Capacity	042561101	FULTON 1101	Capacity	0.99	MW	1162	106	96	9	13	1386
DDOR104	Yes	North Coast	Sonoma	Bank and Feeder	FULTON BANK 5	REPLACE BANK	5/1/2024	\$13,100	N	\$49	-	GNA_0425606_Capacity	0425606	FULTON BANK 6	Capacity	8.07	MW	4621	849	259	101	82	5912
DDOR104	Yes	North Coast	Sonoma	Bank and Feeder	FULTON BANK 5	REPLACE BANK	5/1/2024	\$13,100	N	\$49	-	GNA_042561105_Capacity	042561105</										



DDOR ID	Previous DDOR?	Distribution Planning Region	Division	Project Type	Project Name	Project Description	In-service Date	Project Cost (\$k)	Deferrable (Y/N)	LNBA Value (\$/kW-yr)	LNBA Value (\$/Vpu-yr)	GNA Need ID	Facility ID	GNA Facility Name	Distribution Service Required	Grid Need (2022-2031)	Grid Need Unit	Customer Count					
																		Residential	Commercial	Industrial	Agricultural	Other	Total
DDOR1077	No	South Bay and Central Coast	San Jose	Line Section	LLAGAS 2102	EXTEND LLAGAS 2102	6/1/2022	\$914	N	\$8	-	GNA_0831803_Capacity	0831803	LLAGAS BANK 3	Capacity	11.44	MW	8345	916	352	112	56	9781
DDOR1078	No	South Bay and Central Coast	San Jose	Line Section	EL PATIO 1101 AND EL PATIO 1111	SWAP EL PATIO 1101 FEEDER WITH EL PATIO 1111	6/1/2022	\$190	N	\$12	-	GNA_082921107_Capacity	082921107	EL PATIO 1107	Capacity	0.94	MW	5692	255	112	1	17	6077
DDOR1079	No	North Coast	Sonoma	Line Section	WINDSOR 1102	RECONDUCTOR WINDSOR 1102	6/1/2023	\$960	N	\$46	-	GNA_043501102_Capacity	043501102	WINDSOR 1102	Capacity	1.20	MW	1689	271	135	12	7	2114
DDOR1080	No	North Coast	Sonoma	Line Section	SANTA ROSA A 1105	RECONDUCTOR SANTA ROSA A 1105	4/3/2023	\$768	N	\$26	-	GNA_042151105_Capacity	042151105	SANTA ROSA A 1105	Capacity	CC	MW	1648	330	83	4	9	2074
DDOR1081	No	North Coast	Sonoma	Line Section	SANTA ROSA 1107	RECONFIGURE SANTA ROSA 1107 AND 1110	6/1/2022	\$704	N	\$44	-	GNA_042151111_Capacity	042151111	SANTA ROSA A 1111	Capacity	0.93	MW	4752	260	69	7	9	5097
DDOR1082	No	Central Valley	Stockton	Feeder	CARBONA 1105	UPGRADE BANK AND ASSORTED EQUIPMENT	5/1/2022	\$2,806	N	\$55	-	GNA_163091104_Capacity	163091104	CARBONA 1104	Capacity	CC	MW	0	2	4	0	0	6
DDOR1083	No	Central Valley	Yosemite	Line Section	CHOWCHILLA 1105	INSTALL NEW FEEDER	5/31/2023	\$1,505	N	\$82	-	GNA_2541001_Capacity	2541001	CHOWCHILLA BANK 1	Capacity	CC	MW	3654	341	110	654	45	4804
DDOR1084	No	Central Valley	Yosemite	Line Section	EL NIDO 1104	RECONDUCTOR EL NIDO 1104	6/1/2023	\$3,769	N	\$51	-	GNA_2524501_Capacity	2524501	EL NIDO BANK 1	Capacity	CC	MW	194	71	9	519	12	805
DDOR1085	No	Central Valley	Yosemite	Feeder	MADERA 1117	INSTALL UNDERGROUND CABLE AND LINE WORK AT MADERA 1117	6/1/2023	\$1,764	N	\$51	-	GNA_252761119_Capacity	252761119	MADERA 1119	Capacity	4.16	MW	964	156	22	483	20	1645
DDOR1086	No	Central Valley	Yosemite	Line Section	BONITA 1102	RECONDUCTOR AND INSTALL ASSORTED EQUIPMENT	6/1/2022	\$506	N	\$6	-	GNA_254611104_Capacity	254611104	STOREY 1104	Capacity	4.90	MW	1525	247	87	118	25	2002
DDOR1089	No	Central Valley	Yosemite	Line Section	MENDOTA 1101	INSTALL NEW SWITCH	6/1/2022	\$30	N	\$1	-	GNA_2523102_Capacity	2523102	MENDOTA BANK 2	Capacity	CC	MW	3123	345	71	219	22	3780
DDOR1090	No	Central Valley	Yosemite	Bank	CASSIDY 2108	EXTEND CASSIDY 2108	10/1/2022	\$5,571	N	\$129	-	GNA_254272108_Capacity	254272108	CASSIDY 2108	Capacity	3.17	MW	1863	175	27	72	45	2182
DDOR1091	No	Central Valley	Stockton	Feeder	WEBER 1102	INSTALL CABLE AND REPLACE WEBER 1102 OUTLET	7/1/2022	\$1,892,400	N	\$69,521	-	GNA_163481102_Capacity	163481102	WEBER 1102	Capacity	3.34	MW	502	81	58	49	6	696
DDOR113	Yes	Central Valley	Stockton	Bank	BANTA BANK 1	REPLACE BANK 1	5/1/2024	\$9,900	N	\$39	-	GNA_1628801_Capacity	1628801	TRACY BANK 1	Capacity	CC	MW	3896	499	233	0	20	4648
DDOR113	Yes	Central Valley	Stockton	Bank	BANTA BANK 1	REPLACE BANK 1	5/1/2024	\$9,900	N	\$39	-	GNA_162881102_Capacity	162881102	TRACY 1102	Capacity	CC	MW	582	64	51	0	5	702
DDOR114	Yes	South Bay and Central Coast	San Jose	Feeder	FMC 1106	INSTALL NEW 1106 CIRCUIT	6/1/2023	\$6,200	N	\$1,245	-	GNA_082261116_Capacity	082261116	SAN JOSE B 1116	Capacity	CC	MW	1500	140	59	1	12	1712
DDOR117	Yes	Central Valley	Fresno	Line Section	ASHLAN 1112	INSTALL OVERHEAD SWITCH	5/1/2023	\$45,047	N	\$10,085	-	GNA_252051112_Capacity	252051112	ASHLAN AVENUE 1112	Capacity	0.54	MW	2624	107	54	1	7	2793
DDOR123	Yes	North Coast	Humboldt	Line Section	POTTER VALLEY 1105	RECONDUCTOR POTTER VALLEY 1105	5/30/2023	\$1,822	N	\$307	-	GNA_0422805_Capacity	0422805	POTTER VALLEY P H BANK 5	Capacity	CC	MW	660	90	12	50	6	818
DDOR124	Yes	Bay Area	East Bay	Feeder	OAKLAND J 1116	EXTEND MAINLINE AND ADD SWITCHES	12/1/2022	\$1,100	N	\$29	-	GNA_012091116_Resiliency	012091116	OAKLAND J 1116	Resiliency	2.17	MW	7154	388	81	0	39	7662
DDOR125	Yes	Bay Area	East Bay	Line Section	OAKLAND X 1107	REINFORCE OAKLAND X 1107	12/1/2022	\$426	N	\$33	-	GNA_012541115_Resiliency	012541115	OAKLAND X 1115	Resiliency	0.75	MW	5305	281	57	0	31	5674
DDOR126	Yes	South Bay and Central Coast	Central Coast	Line Section	ROB ROY 2105	RECONDUCTOR, INSTALL SWITCH AND RECLOSER	10/1/2024	\$500	N	\$18	-	GNA_083692105_Resiliency	083692105	ROB ROY 2105	Resiliency	3.26	MW	8048	665	110	37	34	8894
DDOR127	Yes	South Bay and Central Coast	Central Coast	Line Section	SALINAS 1102	INSTALL RECLOSER AND REGULATOR	10/1/2024	\$250	N	\$12	-	GNA_182011102_Resiliency	182011102	SALINAS 1102	Resiliency	CC	MW	94	0	0	0	0	94
DDOR130	Yes	Bay Area	San Francisco	Line Section	MARTIN (SF H) 1108	REPLACE CUTOUT AND BYPASS SWITCH	10/1/2024	\$180	N	\$10	-	GNA_022101108_Resiliency	022101108	MARTIN (SF H) 1108	Resiliency	CC	MW	5173	266	34	1	16	5490
DDOR131	Yes	South Bay and Central Coast	San Jose	Line Section	EDENVALE 2108	INSTALL SWITCH	10/1/2024	\$95	N	\$6	-	GNA_082952108_Resiliency	082952108	EDENVALE 2108	Resiliency	1.72	MW	6425	169	64	0	19	6677
DDOR133	Yes	Central Valley	Yosemite	Line Section	EL CAPITAN 1102	INSTALL SWITCHES	6/1/2022	\$400	N	\$21	-	GNA_253881102_Capacity	253881102	EL CAPITAN 1102	Capacity	CC	MW	592	59	15	4	8	678
DDOR133	Yes	Central Valley	Yosemite	Line Section	EL CAPITAN 1102	INSTALL SWITCHES	6/1/2022	\$400	N	\$21	-	GNA_253882110_Capacity	253882110	EL CAPITAN 2110	Capacity	0.87	MW	3892	82	25	2	11	4012
DDOR136	Yes	Central Valley	Stockton	Feeder	VALLEY SPRINGS 1102 FEEDER OUTLET	INSTALL CABLE, SWITCH AND REGULATOR	5/1/2022	\$1,525	N	\$57	-	GNA_1629902_Capacity	1629902	CORRAL BANK 2	Capacity	0.48	MW	2325	119	24	21	13	2502
DDOR136	Yes	Central Valley	Stockton	Feeder	VALLEY SPRINGS 1102 FEEDER OUTLET	INSTALL CABLE, SWITCH AND REGULATOR	5/1/2022	\$1,525	N	\$57	-	GNA_162991102_Capacity	162991102	CORRAL 1102	Capacity	2.82	MW	2325	119	24	21	13	2502
DDOR137	Yes	Bay Area	Diablo	Line Section	CONTRA COSTA 2105	INSTALL CIRCUIT PROTECTION DEVICES AT CONTRA COSTA 2105	5/1/2022	\$465	N	\$5	-	GNA_013652103_Capacity	013652103	CONTRA COSTA 2103	Capacity	6.03	MW	3259	595	73	0	25	3952
DDOR137	Yes	Bay Area	Diablo	Line Section	CONTRA COSTA 2105	INSTALL CIRCUIT PROTECTION DEVICES AT CONTRA COSTA 2105	5/1/2022	\$465	N	\$5	-	GNA_013652116_Capacity	013652116	CONTRA COSTA 2116 (Previously CONTRA COSTA 2205)	Capacity	4.54	MW	4895	347	97	0	5	5344
DDOR138	Yes	Central Valley	Fresno	Line Section	KINGSBURG 1111 AND KINGSBURG 1113	RECONDUCTOR KINGSBURG 1113 AND 1111	6/1/2022	\$7,650	N	\$127	-	GNA_252241111_Capacity	252241111	KINGSBURG 1111 (old 1114)	Capacity	2.73	MW	1051	139	17	462	20	1689
DDOR138	Yes	Central Valley	Fresno	Line Section	KINGSBURG 1111 AND KINGSBURG 1113	RECONDUCTOR KINGSBURG 1113 AND 1111	6/1/2022	\$7,650	N	\$127	-	GNA_252241113_Capacity	252241113	KINGSBURG 1113	Capacity	CC	MW	293	50	18	250	7	618
DDOR140	Yes	South Bay and Central Coast	De Anza	Line Section	LOYOLA BANK 1	CUT OVER LOYOLA 401 AND LOYOLA 403	12/15/2022	\$4,544	N	\$3,248	-	GNA_0821601_Capacity	0821601	LOYOLA BANK 1	Capacity	0.08	MW	1902	41	5	0	9	1957
DDOR142	Yes	North Coast	Humboldt	Line Section	UPPER LAKE 1101	INSTALL REGULATORS AND SWITCH, AND REMOVE CAPACITOR BANKS	6/1/2022	\$2,091	N	\$151	-	GNA_0428701_Capacity	0428701	UPPER LAKE BANK 1	Capacity	1.71	MW	768	139	21	94	7	1029
DDOR144	Yes	North Valley and Sierra	Sacramento	Line Section	VACA DIXON 1101	REPLACE SWITCHES AT VACA DIXON 1101	6/1/2022	\$90	N	\$1	-	GNA_0635908_Capacity	0635908	VACA DIXON BANK 8	Capacity	CC	MW	3595	249	79	28	43	3994
DDOR144	Yes	North Valley and Sierra	Sacramento	Line Section	VACA DIXON 1101	REPLACE SWITCHES AT VACA DIXON 1101	6/1/2022	\$90	N	\$1	-	GNA_063591105_Capacity	063591105	VACA DIXON 1105	Capacity	3.29	MW	1420	105	15	22	38	1600
DDOR146	Yes	Central Valley	Kern	Line Section	GANSO BANK 1	RECONDUCTORING AND LINE WORK AT GANSO BANK 1	6/1/2022	\$2,611	N	\$83	-	GNA_254541104_Capacity	254541104	GANSO 1104	Capacity	CC	MW	34	19	2	113	1	169
DDOR149	Yes	North Coast	Sonoma	Feeder	MONROE 1106	INSTALL NEW FEEDER AT MONROE	5/1/2024	\$10,000	N	\$49	-	GNA_043301106_Capacity	043301106	MONROE 1106	Capacity	0.85	MW	5646	305	87	13	14	6065
DDOR149	Yes	North Coast	Sonoma	Feeder	MONROE 1106	INSTALL NEW FEEDER AT MONROE	5/1/2024	\$10,000	N	\$49	-	GNA_0421501_Capacity	0421501	SANTA ROSA A BANK 1	Capacity	6.02	MW	12841	1386	471	8	91	14797
DDOR149	Yes	North Coast	Sonoma	Feeder	MONROE 1106	INSTALL NEW FEEDER AT MONROE	5/1/2024	\$10,000	N	\$49	-	GNA_042151102_Capacity	042151102	SANTA ROSA A 1102	Capacity	9.22	MW	4262	236	83	0	20	4601
DDOR149	Yes	North Coast	Sonoma	Feeder	MONROE 1106	INSTALL NEW FEEDER AT MONROE	5/1/2024	\$10,000	N	\$49	-	GNA_042151103_Capacity	042151103	SANTA ROSA A 1103	Capacity	5.35	MW	4270	433	206	0	22	4931
DDOR149	Yes	North Coast	Sonoma	Feeder	MONROE 1106	INSTALL NEW FEEDER AT MONROE	5/1/2024	\$10,000	N	\$49	-	GNA_042151108_Capacity	042151108	SANTA ROSA A 1108	Capacity	2.59	MW	2889	423	165	3	19	3499
DDOR150	Yes	South Bay and Central Coast	De Anza	Line Section	STELLING 1105	EXTEND STELLING 1105 FEEDER	6/1/2023	\$4,368	N	\$54	-	GNA_0834803_Capacity	0834803	STELLING BANK 3	Capacity	CC	MW	10406	509	130	4	28	11077
DDOR150	Yes	South Bay and Central Coast	De Anza	Line Section	STELLING 1105	EXTEND STELLING 1105 FEEDER	6/1/2023	\$4,368	N	\$54	-	GNA_083481111_Capacity	083481111	STELLING 1111	Capacity	4.25	MW	3614	142	39	0	18	3813
DDOR151	Yes	Central Valley	Fresno	Line Section	WAHTOKE 1107	INSTALL CABLE	6/1/2023	\$412	N	\$10	-	GNA_2545302_Capacity	2545302	WAHTOKE BANK 2	Capacity	CC	MW	2687	465	63	41	14	3270
DDOR151	Yes	Central Valley	Fresno	Line Section	WAHTOKE 1107	INSTALL CABLE	6/1/2023	\$412	N	\$10	-	GNA_254531107_Capacity	254531107	WAHTOKE 1107	Capacity	0.96	MW	1781	96	17	62	22	1978
DDOR155	Yes	Bay Area	Peninsula	Line Section	GLENWOOD 1101	INSTALL AUTOTRANSFORMER GLENWOOD 1101	6/1/2022	\$1,150	N	\$99	-	GNA_0240202_Capacity	0240202	BELLE HAVEN BANK 2	Capacity	CC	MW	4758	159	38	0	15	4970
DDOR156	Yes	North Coast	Humboldt	Feeder	CALPELLA 1101	RECONDUCTOR CALPELLA 1101	6/1/2022	\$4,858	N	\$101	-	GNA_0434101_Capacity	0434101	CALPELLA BANK 1	Capacity	CC	MW	863	123	24	20	6	1036
DDOR158	Yes	North Coast	Humboldt	Line Section	CLEAR LAKE 1101	RECONDUCTOR CLEAR LAKE 1101	6/1/2022	\$4,568	N	\$431	-	GNA_0421401_Capacity	0421401	CLEAR LAKE BANK 1	Capacity	0.62	MW	1405	231	23	190	4	1853
DDOR160	Yes	North Valley and Sierra	North Valley	Line Section	CORNING 1101	RECONDUCTOR CORNING 1101	5/1/2022	\$56	N	\$1	-	GNA_103331101_Capacity	103331101	CORNING 1101	Capacity	2.19	MW	2155	183	30	155	4	2527
DDOR161	Yes	North Valley and Sierra	North Valley	Line Section	CORNING 1103	RECONDUCTOR CORNING 1103	6/1/2022	\$790	N	\$31	-	GNA_1033302_Capacity	1033302	CORNING BANK 2	Capacity	CC	MW	3241	324	51	351	12	3979
DDOR165	Yes	Bay Area	Peninsula	Line Section	EAST GRAND 1106	INSTALL UNDERGROUND CABLE IN A NEW TRENCH	5/1/2023	\$130	N	\$3	-	GNA_022571106_Reliability	022571106	EAST GRAND 1106	Reliability	CC	MW	0	88	62	0	5	155
DDOR168	Yes	North Valley and Sierra	North Valley	Line Section	ESQUON BANK 1	LINE WORK FOR ESQUON BANK 1	4/1/2022	\$220	N	\$25	-	GNA_1021701_Capacity	1021701	ESQUON BANK 1	Capacity	CC	MW	175	79	11	303	3	

DDOR ID	Previous DDOR?	Distribution Planning Region	Division	Project Type	Project Name	Project Description	In-service Date	Project Cost (\$k)	Deferrable (Y/N)	LNBA Value (\$/kW-yr)	LNBA Value (\$/Vpu-yr)	GNA Need ID	Facility ID	GNA Facility Name	Distribution Service Required	Grid Need (2022-2031)	Grid Need Unit	Customer Count					
																		Residential	Commercial	Industrial	Agricultural	Other	Total
DDOR234	Yes	Central Valley	Stockton	Line Section	TRACY 1106	REMOVE BOOSTER & INSTALL 1 REGULATOR	4/25/2022	\$44.676	N	\$5.143	-	GNA_162881106_Capacity	162881106	TRACY 1106	Capacity	CC	MW	727	271	123	30	3	1154
DDOR236	Yes	Central Valley	Fresno	Feeder	WEST FRESNO 1110	REPULL CABLE IN EXISTING DUCT	6/1/2022	\$169	N	\$10	-	GNA_253731110_Capacity	253731110	WEST FRESNO 1110	Capacity	CC	MW	328	43	26	12	2	411
DDOR239	Yes	North Valley and Sierra	North Valley	Line Section	TRES VIAS 900	REPLACE SWITCH	4/1/2022	\$44.652	N	\$4.381	-	GNA_103251101_Capacity	103251101	TRES VIAS 1101	Capacity	0.60	MW	993	114	18	91	2	1218
DDOR240	Yes	Bay Area	San Francisco	Feeder	MISSION (SF X) 1113	CIRCUIT REINFORCEMENT	10/1/2023	\$1,400	N	\$58	-	GNA_022011113_Resiliency	022011113	MISSION (SF X) 1113	Resiliency	1.37	MW	6645	390	118	0	2	7155
DDOR242	Yes	North Valley and Sierra	North Bay	Line Section	SAN RAFAEL 1110	REINFORCE SAN RAFAEL 1110	10/1/2022	\$1.686	N	\$256	-	GNA_042011108_Resiliency	042011108	SAN RAFAEL 1108	Resiliency	0.38	MW	4129	422	61	0	4	4616
DDOR243	Yes	South Bay and Central Coast	San Jose	Feeder	FMC 1101	INSTALL NEW FMC 1102	6/1/2023	\$1,700	N	\$36	-	GNA_083871105_Reliability	083871105	FMC 1105	Reliability	5.62	MW	3541	408	176	0	26	4151
DDOR244	Yes	Central Valley	Kern	Line Section	ROSEDALE 2102	INSTALL CABLE IN EXISTING CONDUIT	1/1/2022	\$400	N	\$8	-	GNA_254762102_Reliability	254762102	ROSEDALE 2102	Reliability	3.02	MW	1001	298	122	0	4	1425
DDOR247	Yes	North Valley and Sierra	North Bay	Line Section	IGNACIO 1101	RECONDUCTOR IGNACIO 1101	10/1/2023	\$420	N	\$9	-	GNA_042481101_Reliability	042481101	IGNACIO 1101	Reliability	2.90	MW	2660	124	31	0	5	2820
DDOR248	Yes	South Bay and Central Coast	Los Padres	Line Section	SANTA MARIA 1112	INSTALL AND INTERCEPT CABLE	10/1/2022	\$72	N	\$4	-	GNA_182671112_Reliability	182671112	SANTA MARIA 1112	Reliability	2.30	MW	1173	252	32	0	4	1461
DDOR249	Yes	Central Valley	Fresno	Line Section	AVENAL 2101	INSTALL TIE AND SWITCHES	1/1/2022	\$65	N	\$7	-	GNA_255002101_Reliability	255002101	AVENAL 2101	Reliability	CC	MW	2619	224	59	37	8	2947
DDOR250	Yes	Bay Area	Mission	Line Section	SAN LEANDRO U 1107	INSTALL UNDERGROUND SWITCHES	1/1/2023	\$200	N	\$60	-	GNA_013111107_Resiliency	013111107	SAN LEANDRO U 1107	Resiliency	0.42	MW	2328	112	11	0	2	2453
DDOR251	Yes	Central Valley	Stockton	Line Section	MOSHER 2108	INSTALL UNDERGROUND CABLE IN A NEW TRENCH	1/1/2023	\$850	N	\$22	-	GNA_163722108_Reliability	163722108	MOSHER 2108	Reliability	4.90	MW	3488	61	35	0	6	3590
DDOR252	Yes	North Valley and Sierra	Sacramento	Line Section	DAVIS 1102	INSTALL UNDERGROUND CABLE IN A NEW TRENCH	10/1/2022	\$200	N	\$12	-	GNA_062041102_Reliability	062041102	DAVIS 1102	Reliability	2.10	MW	3189	154	65	1	8	3417
DDOR253	Yes	North Valley and Sierra	Sacramento	Line Section	MADISON 2101	INSTALL TIE AND SWITCH	1/1/2022	\$105	N	\$15	-	GNA_063172101_Reliability	063172101	MADISON 2101	Reliability	CC	MW	1452	252	38	331	13	2086
DDOR254	Yes	North Valley and Sierra	Sacramento	Line Section	PEABODY 2106	REPLACE PEABODY 2106 CIRCUIT OUTLET	6/1/2022	\$226	N	\$5	-	GNA_063642106_Reliability	063642106	PEABODY 2106	Reliability	CC	MW	2914	56	10	2	3	2985
DDOR255	Yes	North Valley and Sierra	Sierra	Line Section	CATLETT 1102	RECONDUCTOR CATLETT 1102 BACK-TIE	11/1/2022	\$4,460	N	\$43	-	GNA_153761102_Reliability	153761102	CATLETT 1102	Reliability	6.00	MW	481	129	16	172	7	805
DDOR259	Yes	Central Valley	Stockton	Line Section	CORRAL 1101	RECONDUCTOR CORRAL 1101	5/15/2022	\$2,518	N	\$200	-	GNA_162991101_Capacity	162991101	CORRAL 1101	Capacity	1.55	MW	1400	170	20	164	8	1762
DDOR264	Yes	Bay Area	East Bay	Line Section	OAKLAND J 1101 AND OAKLAND J 1104	REINFORCE OAKLAND J1101 AND OAKLAND J1104	3/31/2023	\$616	N	\$8	-	GNA_012091104_Capacity	012091104	OAKLAND J 1104	Capacity	CC	MW	1137	252	94	4	10	1497
DDOR267	Yes	South Bay and Central Coast	Los Padres	Line Section	SANTA MARIA 1111	RECONDUCTOR SANTA MARIA 1111	12/30/2022	\$1,690	N	\$35	-	GNA_182811102_Capacity	182811102	SISQUOC 1102	Capacity	2.78	MW	110	34	7	117	0	268
DDOR268	Yes	Bay Area	San Francisco	Line Section	POTRERO A 1106	RECONDUCTOR POTRERO A 1106	6/1/2023	\$3,545	N	\$362	-	GNA_022031104_Capacity	022031104	POTRERO (SF A) 1104	Capacity	CC	MW	3017	86	69	1	7	3180
DDOR043	Yes	Central Valley	Fresno	Bank	HURON BANK 1	REPLACE HURON BANK 1	12/1/2022	\$6,569	N	\$116	-	GNA_2531601_Capacity_RF	2531601	HURON BANK 1	Capacity	CC	MW	1640	190	52	102	4	1988
DDOR043	Yes	Central Valley	Fresno	Bank	HURON BANK 1	REPLACE HURON BANK 1	12/1/2022	\$6,569	N	\$116	-	GNA_2531601_Capacity	2531601	HURON BANK 1	Capacity	CC	MW	1640	190	52	102	4	1988
DDOR109	Yes	Central Valley	Kern	Bank	BLACKWELL BANK 1	REPLACE BANK 1	6/1/2025	\$7,500	Y	\$487	-	GNA_2546801_Capacity_RF	2546801	BLACKWELL BANK 1	Capacity	CC	MW	43	43	15	61	3	165

														Expected Performance and Operational Requirements												Customer Count					
DDOR ID	Previous DDOR?	Distribution Planning Region	Division	Project Type	Project Name	Project Description	In-Service Date	AACE Class	Unit Cost of Traditional Mitigation (\$k)	Estimated LNBA Value (\$/kW-yr)	Estimated LNBA Value (\$/MWh-yr)	Estimated LNBA Value (\$/MWh-Day)	Estimated LNBA Value (\$/Vpu-yr)	GNA ID	GNA Facility Name	Distribution Service Required	Real Time (RT) or Day Ahead (DA)	Grid Need	Grid Need Unit	Month	Calls/Year	Hours	Duration (Hours)	Residential	Agricultural	Commercial	Industrial	Other	Total		
DDOR066	Yes	South Bay and Central Coast	De Anza	Line Section	VASONA 1109	INSTALL NEW FEEDER	6/1/2025	5	\$2,775	\$148	\$33	\$54,440	-	GNA_083371104_Capacity	SARATOGA 1104	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	1679	45	5	1	10	1740	
DDOR079	Yes	South Bay and Central Coast	Central Coast	Bank and Feeder	GABILAN BANK 2	INSTALL BANK 2	5/1/2025	5	\$13,802	\$194	\$108	\$202,480	-	GNA_1823301_Capacity	GABILAN BANK 1	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	243	4	0	0	0	247	
DDOR079	Yes	South Bay and Central Coast	Central Coast	Bank and Feeder	GABILAN BANK 2	INSTALL BANK 2	5/1/2025	5	\$13,802	\$194	\$108	\$202,480	-	GNA_182331101_Capacity	GABILAN 1101	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	221	4	0	0	0	225	
DDOR091	Yes	South Bay and Central Coast	Central Coast	Bank and Feeder	CHUALAR BANK 1	INSTALL NEW BANK	5/1/2025	5	\$15,742	\$23	\$5	\$12,086	-	GNA_1822002_Capacity	SPENCE BANK 2	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	211	128	22	164	4	529	
DDOR091	Yes	South Bay and Central Coast	Central Coast	Bank and Feeder	CHUALAR BANK 1	INSTALL NEW BANK	5/1/2025	5	\$15,742	\$23	\$5	\$12,086	-	GNA_182201104_Capacity	SPENCE 1104	Capacity	DA	6.88	MW	2-11	303	6AM-12PM, 3PM-10PM	7	193	105	17	144	4	463		
DDOR091	Yes	South Bay and Central Coast	Central Coast	Bank and Feeder	CHUALAR BANK 1	INSTALL NEW BANK	5/1/2025	5	\$15,742	\$23	\$5	\$12,086	-	GNA_182201102_Capacity	SPENCE 1102	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	96	29	9	146	0	280	
DDOR091	Yes	South Bay and Central Coast	Central Coast	Bank and Feeder	CHUALAR BANK 1	INSTALL NEW BANK	5/1/2025	5	\$15,742	\$23	\$5	\$12,086	-	GNA_1822001_Capacity	SPENCE BANK 1	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	134	40	9	218	0	401	
DDOR1001	No	Central Valley	Fresno	Feeder	CAMDEN 1106	INSTALL NEW CAMDEN 1106 FEEDER	5/31/2025	5	\$13,808	\$232	\$234	\$143,498	-	GNA_252891110_Capacity	SCHINDLER 1110	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	64	41	9	116	2	232	
DDOR1001	No	Central Valley	Fresno	Feeder	CAMDEN 1106	INSTALL NEW CAMDEN 1106 FEEDER	5/31/2025	5	\$13,808	\$232	\$234	\$143,498	-	GNA_252681110_Capacity	HENRIETTA 1110	Capacity	DA	0.27	MW	6-8	74	3PM-11PM	5	106	16	3	187	2	314		
DDOR1001	No	Central Valley	Fresno	Feeder	CAMDEN 1106	INSTALL NEW CAMDEN 1106 FEEDER	5/31/2025	5	\$13,808	\$232	\$234	\$143,498	-	GNA_2523001_Capacity	CAMDEN BANK 1	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	1554	201	31	1086	36	2908	
DDOR1001	No	Central Valley	Fresno	Feeder	CAMDEN 1106	INSTALL NEW CAMDEN 1106 FEEDER	5/31/2025	5	\$13,808	\$232	\$234	\$143,498	-	GNA_252301103_Capacity	CAMDEN 1103	Capacity	DA	1.32	MW	6-7	61	6PM-10PM	4	910	103	14	603	6	1636		
DDOR1001	No	Central Valley	Fresno	Feeder	CAMDEN 1106	INSTALL NEW CAMDEN 1106 FEEDER	5/31/2025	5	\$13,808	\$232	\$234	\$143,498	-	GNA_2537101_Capacity	HARDWICK BANK 1	Capacity	DA	2.25	MW	5-8	92	4PM-12AM	7	1011	169	20	789	8	1997		
DDOR1005	No	Central Valley	Fresno	Bank and Feeder	SAN JOAQUIN BANK 2	REPLACE SAN JOAQUIN BANK 2	5/31/2025	5	\$13,264	\$277	\$526	\$258,931	-	GNA_2523601_Capacity	SAN JOAQUIN BANK 1	Capacity	DA	2.39	MW	6-8	82	2PM-12AM	9	1109	154	24	211	5	1503		
DDOR1005	No	Central Valley	Fresno	Bank and Feeder	SAN JOAQUIN BANK 2	REPLACE SAN JOAQUIN BANK 2	5/31/2025	5	\$13,264	\$277	\$526	\$258,931	-	GNA_252361106_Capacity	SAN JOAQUIN 1106	Capacity	DA	1.16	MW	6-7	61	3PM-12AM	7	562	83	7	112	1	765		
DDOR1005	No	Central Valley	Fresno	Bank and Feeder	SAN JOAQUIN BANK 2	REPLACE SAN JOAQUIN BANK 2	5/31/2025	5	\$13,264	\$277	\$526	\$258,931	-	GNA_2536601_Capacity	STROUD BANK 1	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	85	70	13	195	6	369	
DDOR1007	No	North Coast	Humboldt	Bank	CARLOTTA BANK 2	REPLACE CARLOTTA BANK 2	5/31/2025	5	\$7,500	\$198	\$64	\$163,462	-	GNA_1922901_Capacity	CARLOTTA BANK 1	Capacity	DA	1.02	MW	1-12	365	6AM-12PM, 3PM-12AM	9	301	24	3	4	8	340		
DDOR1007	No	North Coast	Humboldt	Bank	CARLOTTA BANK 2	REPLACE CARLOTTA BANK 2	5/31/2025	5	\$7,500	\$198	\$64	\$163,462	-	GNA_192291121_Capacity	CARLOTTA 1121	Capacity	DA	1.02	MW	1-12	365	6AM-12PM, 3PM-12AM	8	301	24	3	4	8	340		
DDOR1008	No	Central Valley	Kern	Bank	OLD RIVER BANK 2	REPLACE OLD RIVER BANK 2	5/31/2025	5	\$11,600	\$177	\$608	\$202,270	-	GNA_2528201_Capacity	OLD RIVER BANK 1	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	229	108	24	371	16	748	
DDOR1008	No	Central Valley	Kern	Bank	OLD RIVER BANK 2	REPLACE OLD RIVER BANK 2	5/31/2025	5	\$11,600	\$177	\$608	\$202,270	-	GNA_252821102_Capacity	OLD RIVER 1102	Capacity	DA	0.38	MW	6-7	43	9AM-9PM	12	208	74	9	147	9	447		
DDOR1008	No	Central Valley	Kern	Bank	OLD RIVER BANK 2	REPLACE OLD RIVER BANK 2	5/31/2025	5	\$11,600	\$177	\$608	\$202,270	-	GNA_2528202_Capacity	OLD RIVER BANK 2	Capacity	DA	0.46	MW	6-6	8	7PM-9PM	2	449	92	22	160	13	736		
DDOR102	Yes	South Bay and Central Coast	San Jose	Bank	MONTAGUE BANK 2	REPLACE MONTAGUE BANK 2	5/1/2025	5	\$9,400	\$40	\$17	\$19,736	-	GNA_0838903_Capacity	MONTAGUE BANK 3	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	2557	167	139	0	3	2866	
DDOR102	Yes	South Bay and Central Coast	San Jose	Bank	MONTAGUE BANK 2	REPLACE MONTAGUE BANK 2	5/1/2025	5	\$9,400	\$40	\$17	\$19,736	-	GNA_0838903_Resiliency	MONTAGUE BANK 3	Resiliency	RT	CC	MW	CC	CC	CC	CC	CC	2557	167	139	0	3	2866	
DDOR1026	No	Bay Area	Peninsula	Bank and Feeder	RAVENSWOOD SUBSTATION	NEW RAVENSWOOD DISTRIBUTION SUBSTATION	4/1/2025	5	\$40,747	\$52	\$6	\$15,265	-	GNA_024021104_Capacity	BELLE HAVEN 1104	Capacity	DA	31.73	MW	1-12	365	12AM-12AM	24	816	163	123	0	10	1112		
DDOR1026	No	Bay Area	Peninsula	Bank and Feeder	RAVENSWOOD SUBSTATION	NEW RAVENSWOOD DISTRIBUTION SUBSTATION	4/1/2025	5	\$40,747	\$52	\$6	\$15,265	-	GNA_0240203_Capacity	BELLE HAVEN BANK 3	Capacity	DA	40.79	MW	1-12	365	12AM-12AM	24	816	197	176	0	10	1199		
DDOR1027	No	Bay Area	Peninsula	Bank and Feeder	MILLBRAE SUBSTATION	INSTALL BANK 2 AND MILLBRAE 1109 FEEDER	5/2/2025	5	\$18,026	\$107	\$53	\$60,889	-	GNA_0226904_Capacity	MILLBRAE BANK 4	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	5272	465	212	0	19	5968	
DDOR1027	No	Bay Area	Peninsula	Bank and Feeder	MILLBRAE SUBSTATION	INSTALL BANK 2 AND MILLBRAE 1109 FEEDER	5/2/2025	5	\$18,026	\$107	\$53	\$60,889	-	GNA_022691101_Capacity	MILLBRAE 1101	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	0	238	96	0	4	338	
DDOR1027	No	Bay Area	Peninsula	Bank and Feeder	MILLBRAE SUBSTATION	INSTALL BANK 2 AND MILLBRAE 1109 FEEDER	5/2/2025	5	\$18,026	\$107	\$53	\$60,889	-	GNA_0225701_Capacity	EAST GRAND BANK 1	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	6906	417	142	7	26	7498	
DDOR1027	No	Bay Area	Peninsula	Bank and Feeder	MILLBRAE SUBSTATION	INSTALL BANK 2 AND MILLBRAE 1109 FEEDER	5/2/2025	5	\$18,026	\$107	\$53	\$60,889	-	GNA_022571112_Capacity	EAST GRAND 1112	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	0	15	14	0	0	29	
DDOR1029	No	Central Valley	Kern	Bank and Feeder	7TH STANDARD BANK 2	INSTALL 7TH STANDARD BANK 2	5/1/2025	5	\$20,464	\$48	\$7	\$14,138	-	GNA_2545801_Capacity	7TH STANDARD BANK 1	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	6320	253	107	89	27	6796	
DDOR1029	No	Central Valley	Kern	Bank and Feeder	7TH STANDARD BANK 2	INSTALL 7TH STANDARD BANK 2	5/1/2025	5	\$20,464	\$48	\$7	\$14,138	-	GNA_254582102_Capacity	7TH STANDARD 2102	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	1705	61	72	41	7	1886	
DDOR1029	No	Central Valley	Kern	Bank and Feeder	7TH STANDARD BANK 2	INSTALL 7TH STANDARD BANK 2	5/1/2025	5	\$20,464	\$48	\$7	\$14,138	-	GNA_254582103_Capacity	7TH STANDARD 2103	Capacity	DA	1.06	MW	6-9	61	2PM-10PM	8	779	65	11	47	16	918		
DDOR1030	No	Central Valley	Kern	Bank and Feeder	FAMOSO BANK 1	INSTALL BANK AND NEW FEEDERS	5/1/2025	5	\$12,480	\$93	\$28	\$27,149	-	GNA_2524601_Capacity	FAMOSO BANK 1	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	83	110	28	343	16	580	
DDOR1030	No	Central Valley	Kern	Bank and Feeder	FAMOSO BANK 1	INSTALL BANK AND NEW FEEDERS	5/1/2025	5	\$12,480	\$93	\$28	\$27,149	-	GNA_252461103_Capacity	FAMOSO 1103	Capacity	DA	CC	MW	CC	CC	CC	CC	CC	36	49	6	74	5	170	
DDOR1031	No	Central Valley	Kern	Bank and Feeder	SEMITROPIC BANK 4	INSTALL BANK AND NEW FEEDERS	5/1/2025	5	\$24,179	\$51	\$17	\$21,988	-	GNA_252901110_Capacity	SEMITROPIC 1110	Capacity	DA	2.89	MW	5-9	114	12AM-6AM, 4PM-11PM	7	1634	105	38	148	4	2129		
DDOR1031	No	Central Valley	Kern	Bank and Feeder	SEMITROPIC BANK 4	INSTALL BANK AND NEW FEEDERS	5/1/2025	5	\$24,179	\$51	\$17	\$21,988	-	GNA_2545401_Capacity	GANSO BANK 1	Capacity	DA>														

Glossary

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

Step	Column Name	Description
Raw Data	Project ID	The project identifier.
	Project Description	A brief description of the project scope.
	LNBA (\$/MW-yr)	Calculated using the Commission approved LNBA methodology, based on the peak capacity need during the deferral period
	LNBA (\$/MWh-yr)	Calculated using the Commission approved LNBA methodology, based on the maximum annual energy need during the deferral period
	LNBA (\$/MWh-day) (Info Only)	Calculated using the Commission approved LNBA methodology, based on the maximum peak day energy need during the deferral period
	Unit Cost of Traditional Mitigation (\$)	Cost of the traditional mitigation project designed to meet the maximum capacity need for each project.
	Grid Need Certainty	The IOU-specific, maximum grid need certainty score of all the assets associated with a project. (e.g. for SCE this is the Location of Certainty matrix score of the project's load growth drivers weighted by the size of the load growth).
	Operating Date (Info Only)	The expected operating date of a candidate deferral project
	Year of Need	The earliest starting year among all assets associated with a project.
	Year of Need Indicator	Year of need indicator based on the possible range of all the years of need for this cycle of DIDF (i.e. between 2020 and 2029)
	Duration (Hours)	The maximum number of hours that DER is needed in a peak day, during the deferral period, to meet the need that the project mitigate
	Capacity Need (MW)	The maximum capacity need mitigated by the project during the deferral period
	Circuits	The number of circuits that DER can be interconnected to which will meet the need that the project mitigates
	Capacity Need (MW)/Circuit	The max capacity need per number of circuits to which DERs can connect and meet the grid need
	Operational Requirement	The operational requirement of the need.
Step 1: Normalize Raw Data	Number of Grid Needs	The number of grid needs that the project mitigates.
	LNBA (\$/MW-yr)	The "LNBA (\$/MW-yr)" value is normalized between 0 and 1, based on the range of the "LNBA (\$/MW-yr)" values of all the candidate deferral projects
	LNBA (\$/MWh-yr)	The "LNBA (\$/MWh-yr)" value is normalized between 0 and 1, based on the range of the "LNBA (\$/MWh-yr)" values of all the candidate deferral projects
	Unit Cost of Traditional Mitigation (\$)	
	Grid Need Certainty	The "Grid Need Certainty" value is normalized between 0 and 1 based on the range of the "Grid Need Certainty" values of all the candidate deferral projects
	Year of Need	
	Duration (Hours)	The "Duration (Hours)" value is normalized between 0 and 1, based on the range of the "Duration (Hours)" values of all the candidate deferral projects. The shorter the duration, the higher the normalized Duration value.
	Capacity Need (MW)/Circuit	The "Capacity Need (MW)/Circuit " value is normalized between 0 and 1 based on the range of the "Capacity Need (MW)/Circuit" values among all the candidate deferral projects. The smaller the capacity needs per circuit, the higher chance for a feasible DER solution, the higher the normalized Capacity Needs/Circuit value
	Operational Requirement	
Step 2: Apply Red Flags	Number of Grid Needs	
	LNBA (\$/MW-yr)	
	LNBA (\$/MWh-yr)	
	Unit Cost of Traditional Mitigation (\$)	If the "Unit Cost of Traditional Mitigation (\$)" for a project is below the respective threshold, it will be Red Flagged and relegated to Tier 3
	Grid Need Certainty	
	Year of Need	If the "Year of Need" for a project is above the respective threshold, it will be Red Flagged and relegated to Tier 3
	Duration (Hours)	
	Capacity Need (MW)/Circuit	
	Operational Requirement	If the "Operational Requirement" for a project is not Day Ahead, it will be Red Flagged and relegated to Tier 3
Step 3: Determine Quantitative Metric Scores	Number of Grid Needs	If the "Number of Grid Needs" is above the respective threshold, it will be Red Flagged and relegated to Tier 3
	Cost Effectiveness	The sum of normalized "LNBA/MW-yr" and normalized "LNBA/MWh-yr" values.
	Scaled Forecast Certainty	The normalized "Grid Need Certainty" score scaled up to match the range of the other metrics.
Step 4: Rank Quantitative Metric Scores	Market Assessment	The sum of normalized "Duration (Hours)" and normalized "Capacity Need (MW)/Circuit" values
	Cost Effectiveness	Cost Effectiveness scores in descending order (i.e. the highest score ranks 1
	Scaled Forecast Certainty	Forecast Certainty scores in descending order (i.e. the highest score ranks 1
Step 5: Assign RAG Scores	Market Assessment	Market Assessment scores in descending order (i.e. the highest score ranks 1
	Cost Effectiveness	The Red Amber Green (RAG) score of the Cost Effectiveness rankings. Projects ranked in the Bottom Quartile are assigned a RAG score of -1, projects ranked in the Top Quartile are assigned a RAG score of +1, all other projects are assigned a RAG score of 0
	Scaled Forecast Certainty	The RAG score of the Forecast Certainty rankings. Projects ranked in the Bottom Quartile are assigned a RAG score of -1, projects ranked in the Top Quartile are assigned a RAG score of +1, all other projects are assigned a RAG score of 0.
	Market Assessment	The RAG score of the Market Assessment rankings. Projects ranked in the Bottom Quartile are assigned a RAG score of -1, projects ranked in the Top Quartile are assigned a RAG score of +1, all other projects are assigned a RAG score of 0.
Step 6: Determine Final Score and Ranking	Final RAG Score	The sum of the RAG scores across the three metrics. Projects with Red Flags are automatically binned into Tier 3
	Final Score	The sum of the Cost Effectiveness, Forecast Certainty, and Market Assessment scores
	Final Ranking	Final Score in descending order (i.e the highest score ranks 1)
	Final Tiering	The tiered recommendation. Red Flagged projects and projects with a <0 RAG score are in Tier 3, projects with a >0 RAG score are in Tier 1, and projects with a RAG score = 0 are in Tier 2.
	Approval Status	Per Reform 37 of the 2020 May Ruling, information about the approval status of Pre-Application and Post-Application projects in the GNA/DDOR

Tier	DDOR ID	Candidate Deferral	In-Service Date	Deficiency (MW)	Cost Effectiveness	Forecast Certainty	Market Assessment
Tier 1	DDOR109	Blackwell Bank 1	6/1/2025	CC	1	0	1
Tier 1	DDOR1001	Camden 1106	5/31/2025	CC	1	1	0
Tier 1	DDOR1007	Carlotta Bank 2	5/31/2025	2.0	1	0	1
Tier 1	DDOR079	Gabilan Bank 2	5/1/2025	CC	1	0	1
Tier 1	DDOR1008	Old River Bank 2	5/31/2025	CC	1	0	1
Tier 1	DDOR1005	San Joaquin Bank 2	5/31/2025	CC	1	1	1
Tier 1	DDOR066	Vasona 1109	6/1/2025	CC	0	1	0
Tier 2	DDOR1029	7th Standard Bank 2	5/1/2025	CC	-1	1	0
Tier 2	DDOR1030	Famoso Bank 1	5/1/2025	CC	0	0	0
Tier 2	DDOR1027	Millbrae Substation	5/2/2025	CC	0	-1	1
Tier 3	DDOR091	Chualar Bank 1	5/1/2025	CC	-1	-1	-1
Tier 3	DDOR105	Lockeford Bank 5	5/1/2025	CC	0	0	FLAG
Tier 3	DDOR102	Montague Bank 2	5/1/2025	CC	-1	0	FLAG
Tier 3	DDOR1026	Ravenswood Substation	4/1/2025	72.5	0	-1	-1
Tier 3	DDOR1031	Semitropic Bank 4	5/1/2025	CC	0	1	FLAG
Tier 3	DDOR1032	Tevis Bank 1	5/1/2025	CC	0	1	FLAG
Tier 3	DDOR1034	Tulucay Bank 4	5/31/2025	CC	-1	-1	0
Tier 3	DDOR1033	Weber Bank 7	5/1/2025	CC	0	0	-1



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PG&E 2022 Distribution Deferral Opportunity Report (DDOR)  
Appendix C: Prioritization Metrics (Candidate Deferral Inputs)  
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Project Name	DDOR ID	In-Service Date	Real Time (RT) or Day Ahead (DA)	Min of Year of Need	Max of Duration (Hours)	Sum of Grid Need (MW)	Sum of Circuits (that DER can connect to)	Count of GNA ID
Vasona 1109	DDOR066	6/1/2025	DA	2025	CC	CC	1.0	1
Gabilan Bank 2	DDOR079	5/1/2025	DA	2022	CC	CC	3.0	2
Chualar Bank 1	DDOR091	5/1/2025	DA	2022	CC	CC	4.0	4
Camden 1106	DDOR1001	5/31/2025	DA	2022	CC	CC	8.0	5
San Joaquin Bank 2	DDOR1005	5/31/2025	DA	2022	CC	CC	6.0	3
Carlotta Bank 2	DDOR1007	5/31/2025	DA	2025	9	2.0	2.0	2
Old River Bank 2	DDOR1008	5/31/2025	DA	2022	CC	CC	6.0	3
Montague Bank 2	DDOR102	5/1/2025	DA + RT	2023	CC	CC	3.0	1
Ravenswood Substation	DDOR1026	4/1/2025	DA	2023	24	72.5	3.0	2
Millbrae Substation	DDOR1027	5/2/2025	DA	2023	CC	CC	12.0	4
7th Standard Bank 2	DDOR1029	5/1/2025	DA	2023	CC	CC	5.0	3
Famoso Bank 1	DDOR1030	5/1/2025	DA	2022	CC	CC	6.0	2
Semitropic Bank 4	DDOR1031	5/1/2025	DA	2022	CC	CC	17.0	9
Tevis Bank 1	DDOR1032	5/1/2025	DA	2022	CC	CC	13.0	9
Weber Bank 7	DDOR1033	5/1/2025	DA	2023	CC	CC	3.0	2
Tulucay Bank 4	DDOR1034	5/31/2025	DA	2024	CC	CC	5.0	3
Lockeford Bank 5	DDOR105	5/1/2025	RT	2022	CC	CC	2.0	1
Blackwell Bank 1	DDOR109	6/1/2025	DA	2022	CC	CC	2.0	1

Project Name	DDOR ID	Estimated LNBA Value (\$/kW-yr)	Estimated LNBA Value (\$/MWh-yr)	Estimated LNBA Value (\$/MWh-day)	Project Cost (\$k)
Vasona 1109	DDOR066	148	33	54,440	2,775
Gabilan Bank 2	DDOR079	194	108	202,480	13,802
Chualar Bank 1	DDOR091	23	5	12,086	15,742
Camden 1106	DDOR1001	232	234	143,498	13,808
San Joaquin Bank 2	DDOR1005	277	526	258,931	13,264
Carlotta Bank 2	DDOR1007	198	64	163,462	7,500
Old River Bank 2	DDOR1008	177	608	202,270	11,600
Montague Bank 2	DDOR102	40	17	19,736	9,400
Ravenswood Substation	DDOR1026	52	6	15,265	40,747
Millbrae Substation	DDOR1027	107	53	60,889	18,026
7th Standard Bank 2	DDOR1029	48	7	14,138	20,464
Famoso Bank 1	DDOR1030	93	28	27,149	12,480
Semitropic Bank 4	DDOR1031	51	17	21,988	24,179
Tevis Bank 1	DDOR1032	57	33	34,702	35,547
Weber Bank 7	DDOR1033	61	9	18,514	18,101
Tulucay Bank 4	DDOR1034	37	6	12,674	17,080
Lockeford Bank 5	DDOR105	86	149	12,536	13,705
Blackwell Bank 1	DDOR109	487	998	426,004	7,500

DDOR ID	Project Name	Grid Need Certainty Score
DDOR091	Chualar Bank 1	-33
DDOR079	Gabilan Bank 2	-31
DDOR1030	Famoso Bank 1	-21
DDOR1031	Semitropic Bank 4	-18
DDOR1032	Tevis Bank 1	-18
DDOR1029	7th Standard Bank 2	-14
DDOR1007	Carlotta Bank 2	-31
DDOR1034	Tulucay Bank 4	-38
DDOR105	Lockeford Bank 5	-22
DDOR1027	Millbrae Substation	-34
DDOR102	Montague Bank 2	-28
DDOR1001	Camden 1106	-17
DDOR1026	Ravenswood Substation	-40
DDOR1008	Old River Bank 2	-19
DDOR1005	San Joaquin Bank 2	-12
DDOR066	Vasona 1109	-13
DDOR109	Blackwell Bank 1	-19
DDOR1033	Weber Bank 7	-31

Worksheet/Tab	Purpose
General Input	Data includes equipment revenue requirement multipliers and O&M costs as a percentage of direct costs. Generic discount rate and default inflation rate information. 2022 updates include 1.43% property tax factor, 6.77% Discount Factor (2020 Cost of Capital Decision)
LNBA Results-CandidateDeferrals	Results of the LNBA values are presented here. For example: Value of Deferral Benefits (\$000s) in Install Year (Capital Benefit in Install Year, O&M Deferral Benefit in Install Year) and Load Forecast year. Normalized Deferral Benefit (\$/kW*yr)
Project Specific Inputs	Utility Inputs: Project specific information such as cost and need for projects .

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Appendix D: LNBA - Candidate Deferral Opportunities - General Inputs  
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First load forecast year	8/1/2022	
After Tax Weighted Cost of Capital (ATWACC)	6.77%	
Cost Year Basis*	8/1/2022	
End of Deferral year	7/31/2032	10 year added to first load forecast year

Legend	
	Input
	Reference value
	Calculated

Input	2022 Cost			
	General	Substation Bank	Primary Feeder	Poles and towers
Revenue Requirement Multiplier (Fixed Costs)	145.54%	144.3%	146.8%	150.7%
Revenue Requirement Multiplier With O&M	247.78%	186.5%	309.1%	310.5%
Equipment Inflation	2.5%	2.5%	2.5%	2.5%
O&M Inflation	2.5%	2.5%	2.5%	2.5%
O&M Factor	5.15%	2.13%	8.18%	8.18%
O&M Old Eqpt	0.0%	0.0%	0.0%	0.0%
Book Life	46	46	46	44
RECC	0.04722	0.04722	0.04722	0.0480
Discount rate net or project inflation (5/yr)	4.17%	4.17%	4.17%	4.17%

(\*) 2022 updates include 1.43% property tax factor, 6.77% Discount Factor (2020 Cost of Capital Decision). Multipliers continue to use May 1, 2022 depreciation rates and O&M factors from 2020 tool.

\*\*For projects with hybrid (Bank and Feeder) needs use the General during detailed analysis

2022 Multiplier Details									
2022	Rate	Ratio	WACC	TR	ATWACC		Station Equipment	OH Conductors & Devices	Poles, Towers, & Fixtures
Bond Interest	4.17	0.48	2		1.44	SalVal	-40	-90	-150
Equity	10.25	0.52	5.33		5.33	ServLife	46	46	44
Adopted			7.33	0.2798	6.77	PVRR (Fixed)	144.31	146.77	150.67
						PVRR W/O&M	186.5	309.06	310.47
						O&M factor	2.13%	8.18%	8.18%

Description	PVRR	PVRR	PVRR
Return on Investment	52.2832%	52.28%	52.71%
Book Depreciation	52.71%	55.16%	58.64%
Federal and State Income Taxes	14.51%	14.51%	14.58%
Property Tax	14.56%	14.56%	14.56%
Insurance	10.2527%	10.25%	10.18%
Subtotal of Fixed Charges	144.31%	146.77%	150.67%
M&O	42.19%	162.30%	159.80%
Total	186.50%	309.06%	310.47%

PG&E 2022 Distribution Deferral Opportunity Report (DDOR)  
Appendix D: LNBA - Candidate Deferral Opportunities - LNBA Results  
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Unique ID	GNA ID	DDOR ID	Project Name	Project Type	New or Existing Equipment	Project Cost (\$k)	Distributio n Service Required	Revenue Requir eme nt Multiplier	Discount Rate (%/yr)	Equipment Inflation	O&M Inflation	Book Life (Year)	DER Install Year	Cost year basis	Analysis Year	Years (10- Year Period)	Real Economic Carrying Cost (RECC)	Discount rate net or project inflation (5/yr)	Revenue Requirement (RR) Install Yr \$'s	RR * RECC	Value of Deferral Benefits (\$000s) in Install Year (Capital + O&M)	Value of Deferral Benefit (\$000s) in 2022	Grid Need (MW/Vpu/ MVAR)	Units	Grid Need Energy (MWh/yr)	Peak Day Energy (MWh)	Sum of Grid Need per Project (MW/Vpu/ MVAR)	Units	Number of Needs solved by project	Sum of Grid Need Energy per Project (MWh)	Sum of Peak Day Energy per Project (MWh)	Estimated LNBA Value (\$/kW-yr)	Estimated LNBA Value (\$/MWh-yr)	Estimated LNBA Value (\$/MWh- day)	Estimated LNBA Value (\$/Vpu-yr)	LNBA Value Range (\$/kW-yr)	LNBA Value Range (\$/Vpu-yr)	
DDOR066_GNA_083371104_Capacity	GNA_083371104_Capacity	DDOR066	Vasona 1109	Line Section	New	\$2,775	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$9,198.01	\$434.29	CC	CC	CC	MW	CC	CC	CC	MW	1	CC	CC	\$148	\$33	\$54,440	-	\$100-\$200		
DDOR079_GNA_1823301_Capacity	GNA_1823301_Capacity	DDOR079	Gabilan Bank 2	Bank and Feeder	New	\$13,802	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$36,600.42	\$1,728.11	CC	CC	CC	MW	CC	CC	CC	MW	2	CC	CC	\$194	\$108	\$202,480	-			
DDOR079_GNA_182331101_Capacity	GNA_182331101_Capacity	DDOR079	Gabilan Bank 2	Bank and Feeder	New	\$13,802	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$36,600.42	\$1,728.11	CC	CC	CC	MW	CC	CC	CC	MW	2	CC	CC	\$194	\$108	\$202,480	-	\$100-\$200		
DDOR091_GNA_1822002_Capacity	GNA_1822002_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder	New	\$15,742	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$41,744.95	\$1,971.01	CC	CC	CC	MW	CC	CC	CC	MW	4	CC	CC	\$23	\$5	\$12,086	-			
DDOR091_GNA_182201104_Capacity	GNA_182201104_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder	New	\$15,742	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$41,744.95	\$1,971.01	\$12,247.75	\$1,971.01	\$10,230	6.88	MW	14592	48	6.88	MW	4	14592.48	48.16	\$212	\$100	\$212,407	-		
DDOR091_GNA_182201102_Capacity	GNA_182201102_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder	New	\$15,742	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$41,744.95	\$1,971.01	CC	CC	CC	MW	CC	CC	CC	MW	4	CC	CC	\$23	\$5	\$12,086	-			
DDOR091_GNA_1822001_Capacity	GNA_1822001_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder	New	\$15,742	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$41,744.95	\$1,971.01	CC	CC	CC	MW	CC	CC	CC	MW	4	CC	CC	\$23	\$5	\$12,086	-	\$0-\$50		
DDOR1001_GNA_252891110_Capacity	GNA_252891110_Capacity	DDOR1001	Camden 1106	Feeder	New	\$13,808	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/31/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$45,764.86	\$2,160.81	CC	CC	CC	MW	CC	CC	CC	MW	5	CC	CC	\$232	\$234	\$143,498	-			
DDOR1001_GNA_252681110_Capacity	GNA_252681110_Capacity	DDOR1001	Camden 1106	Feeder	New	\$13,808	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/31/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$45,764.86	\$2,160.81	\$13,427.17	\$1,971.01	\$11,154	0.27	MW	100	1	3.85	MW	5	1873.29	22.41	\$414	\$851	\$497,729	-		
DDOR1001_GNA_2523001_Capacity	GNA_2523001_Capacity	DDOR1001	Camden 1106	Feeder	New	\$13,808	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/31/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$45,764.86	\$2,160.81	CC	CC	CC	MW	CC	CC	CC	MW	5	CC	CC	\$232	\$234	\$143,498	-			
DDOR1001_GNA_252301103_Capacity	GNA_252301103_Capacity	DDOR1001	Camden 1106	Feeder	New	\$13,808	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/31/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$45,764.86	\$2,160.81	\$13,427.17	\$1,971.01	\$11,154	1.32	MW	323	5	3.85	MW	5	1873.29	22.41	\$414	\$851	\$497,729	-		
DDOR1001_GNA_2537101_Capacity	GNA_2537101_Capacity	DDOR1001	Camden 1106	Feeder	New	\$13,808	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/31/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$45,764.86	\$2,160.81	\$13,427.17	\$1,971.01	\$11,154	2.25	MW	1450	16	3.85	MW	5	1873.29	22.41	\$414	\$851	\$497,729	-	\$200-500	
DDOR1005_GNA_2523601_Capacity	GNA_2523601_Capacity	DDOR1005	San Joaquin Bank 2	Bank and Feeder	New	\$13,264	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/31/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$35,245.15	\$1,664.12	\$10,340.74	\$1,664.12	\$8,590	2.39	MW	1764	22	3.55	MW	3	2259.14	29.63	\$346	\$543	\$289,923	-		
DDOR1005_GNA_252361106_Capacity	GNA_252361106_Capacity	DDOR1005	San Joaquin Bank 2	Bank and Feeder	New	\$13,264	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/31/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$35,245.15	\$1,664.12	\$10,340.74	\$1,664.12	\$8,590	1.16	MW	495	8	3.55	MW	3	2259.14	29.63	\$346	\$543	\$289,923	-		
DDOR1005_GNA_2536601_Capacity	GNA_2536601_Capacity	DDOR1005	San Joaquin Bank 2	Bank and Feeder	New	\$13,264	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/31/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$35,245.15	\$1,664.12	CC	CC	CC	MW	CC	CC	CC	MW	3	CC	CC	\$277	\$526	\$258,931	-	\$200-500		
DDOR1007_GNA_1922901_Capacity	GNA_1922901_Capacity	DDOR1007	Carlotta Bank 2	Bank	Existing	\$7,500	Capacity	144.3%	6.77%	2.5%	2.5%	46	5/31/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$11,606.90	\$548.03	\$3,405.40	\$548.03	\$2,829	1.02	MW	3341	9	2.04	MW	2	6316.95	17.31	\$198	\$64	\$163,462	-		
DDOR1007_GNA_192291121_Capacity	GNA_192291121_Capacity	DDOR1007	Carlotta Bank 2	Bank	Existing	\$7,500	Capacity	144.3%	6.77%	2.5%	2.5%	46	5/31/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$11,606.90	\$548.03	\$3,405.40	\$548.03	\$2,829	1.02	MW	2976	8	2.04	MW	2	6316.95	17.31	\$198	\$64	\$163,462	-	\$100-\$200	
DDOR1008_GNA_2528201_Capacity	GNA_2528201_Capacity	DDOR1008	Old River Bank 2	Bank	Existing	\$11,600	Capacity	144.3%	6.77%	2.5%	2.5%	46	5/31/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$17,952.01	\$847.61	CC	CC	CC	MW	CC	CC	CC	MW	3	CC	CC	\$177	\$608	\$202,270	-			
DDOR1008_GNA_252821102_Capacity	GNA_252821102_Capacity	DDOR1008	Old River Bank 2	Bank	Existing	\$11,600	Capacity	144.3%	6.77%	2.5%	2.5%	46	5/31/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$17,952.01	\$847.61	\$5,267.03	\$1,971.01	\$4,375	0.38	MW	196	5	0.84	MW	3	203.28	5.47	\$748	\$3,075	\$799,850	-		
DDOR1008_GNA_2528202_Capacity	GNA_2528202_Capacity	DDOR1008	Old River Bank 2	Bank	Existing	\$11,600	Capacity	144.3%	6.77%	2.5%	2.5%	46	5/31/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$17,952.01	\$847.61	\$5,267.03	\$1,971.01	\$4,375	0.46	MW	7	1	0.84	MW	3	203.28	5.47	\$748	\$3,075	\$799,850	-	>\$500	
DDOR102_GNA_0838903_Capacity	GNA_0838903_Capacity	DDOR102	Montague Bank 2	Bank	Existing	\$9,400	Capacity	144.3%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$14,517.84	\$685.47	CC	CC	CC	MW	CC	CC	CC	MW	2	CC	CC	\$40	\$17	\$19,736	-			
DDOR102_GNA_0838903_Resiliency	GNA_0838903_Resiliency	DDOR102	Montague Bank 2	Bank	Existing	\$9,400	Resiliency	144.3%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$14,517.84	\$685.47	CC	CC	CC	MW	CC	CC	CC	MW	2	CC	CC	\$40	\$17	\$19,736	-	\$0-\$50		
DDOR1026_GNA_024021104_Capacity	GNA_024021104_Capacity	DDOR1026	Ravenswood Substation	Bank and Feeder	New	\$40,747	Capacity	247.8%	6.77%	2.5%	2.5%	46	4/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$107,834.78	\$5,091.47	\$31,638.16	\$5,091.47	\$26,567	31.73	MW	277942	761	72.52	MW	2	635233.15	1740.36	\$52	\$6	\$15,265	-		
DDOR1026_GNA_0240203_Capacity	GNA_0240203_Capacity	DDOR1026	Ravenswood Substation	Bank and Feeder	New	\$40,747	Capacity	247.8%	6.77%	2.5%	2.5%	46	4/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$107,834.78	\$5,091.47	\$31,638.16	\$5,091.47	\$26,567	40.79	MW	357291	979	72.52	MW	2	635233.15	1740.36	\$52	\$6	\$15,265	-	\$50-\$100	
DDOR1027_GNA_0226904_Capacity	GNA_0226904_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder	New	\$18,026	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/2/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$47,804.94	\$2,257.13	CC	CC	CC	MW	CC	CC	CC	MW	4	CC	CC	\$107	\$53	\$60,889	-			
DDOR1027_GNA_022691101_Capacity	GNA_022691101_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder	New	\$18,026	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/2/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$47,804.94	\$2,257.13	CC	CC	CC	MW	CC	CC	CC	MW	4	CC	CC	\$107	\$53	\$60,889	-			
DDOR1027_GNA_0225701_Capacity	GNA_0225701_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder	New	\$18,026	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/2/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$47,804.94	\$2,257.13	CC	CC	CC	MW	CC	CC	CC	MW	4	CC	CC	\$107	\$53	\$60,889	-			
DDOR1027_GNA_022571112_Capacity	GNA_022571112_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder	New	\$18,026	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/2/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$47,804.94	\$2,257.13	CC	CC	CC	MW	CC	CC	CC	MW	4	CC	CC	\$107	\$53	\$60,889	-	\$100-\$200		
DDOR1029_GNA_2545801_Capacity	GNA_2545801_Capacity	DDOR1029	7th Standard Bank 2	Bank and Feeder	New	\$20,464	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$54,266.84	\$2,562.24	CC	CC	CC	MW	CC	CC	CC	MW	3	CC	CC	\$48	\$7	\$14,138	-			
DDOR1029_GNA_254582102_Capacity	GNA_254582102_Capacity	DDOR1029	7th Standard Bank 2	Bank and Feeder	New	\$20,464	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$54,266.84	\$2,562.24	CC	CC	CC	MW	CC	CC	CC	MW	3	CC	CC	\$48	\$7	\$14,138	-			
DDOR1029_GNA_254582103_Capacity	GNA_254582103_Capacity	DDOR1029	7th Standard Bank 2	Bank and Feeder	New	\$20,464	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$54,266.84	\$2,562.24	\$15,921.61	\$1,971.01	\$13,298	1.06	MW	515	8	1.06	MW	3	515.04	8.44	\$1,800	\$3,689	\$1,574,993	-	>\$500	
DDOR1030_GNA_2524601_Capacity	GNA_2524601_Capacity	DDOR1030	Famoso Bank 1	Bank and Feeder	New	\$12,480	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$33,094.71	\$1,562.58	CC	CC	CC	MW	CC	CC	CC	MW	2	CC	CC	\$93	\$28	\$27,149	-			
DDOR1030_GNA_252461103_Capacity	GNA_252461103_Capacity	DDOR1030	Famoso Bank 1	Bank and Feeder	New	\$12,480	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	\$33,094.71	\$1,562.58	CC	CC	CC	MW	CC	CC	CC	MW	2	CC	CC	\$93	\$28	\$2				



Unique ID	GNA ID	DDOR ID	Project Name	Project Type	Capital Cost (2022 \$)				Need Year/In Service Date	Grid Need Energy (MWh/yr)	Peak Day Energy (MWh)	Deferral Years	Distribution Service Required	Grid Need (MW/Vpu/MVAR )	Units	DER Installation Year
					General	Substation Equipment (\$000)	Primary Feeder/Line section (\$000)	New or Existing Equipment								
DDOR066_GNA_083371104_Capacity	GNA_083371104_Capacity	DDOR066	Vasona 1109	Line Section		N/A	\$2,775	New	6/1/2025	CC	CC	7	Capacity	CC	MW	6/1/2025
DDOR079_GNA_1823301_Capacity	GNA_1823301_Capacity	DDOR079	Gabilan Bank 2	Bank and Feeder		\$13,802	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR079_GNA_182331101_Capacity	GNA_182331101_Capacity	DDOR079	Gabilan Bank 2	Bank and Feeder		\$13,802	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR091_GNA_1822002_Capacity	GNA_1822002_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder		\$15,742	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR091_GNA_182201104_Capacity	GNA_182201104_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder		\$15,742	N/A	New	5/1/2025	14592	48	7	Capacity	6.88	MW	5/1/2025
DDOR091_GNA_182201102_Capacity	GNA_182201102_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder		\$15,742	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR091_GNA_1822001_Capacity	GNA_1822001_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder		\$15,742	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1001_GNA_252891110_Capacity	GNA_252891110_Capacity	DDOR1001	Camden 1106	Feeder		N/A	\$13,808	New	5/31/2025	CC	CC	7	Capacity	CC	MW	5/31/2025
DDOR1001_GNA_252681110_Capacity	GNA_252681110_Capacity	DDOR1001	Camden 1106	Feeder		N/A	\$13,808	New	5/31/2025	100	1	7	Capacity	0.27	MW	5/31/2025
DDOR1001_GNA_2523001_Capacity	GNA_2523001_Capacity	DDOR1001	Camden 1106	Feeder		N/A	\$13,808	New	5/31/2025	CC	CC	7	Capacity	CC	MW	5/31/2025
DDOR1001_GNA_252301103_Capacity	GNA_252301103_Capacity	DDOR1001	Camden 1106	Feeder		N/A	\$13,808	New	5/31/2025	323	5	7	Capacity	1.32	MW	5/31/2025
DDOR1001_GNA_2537101_Capacity	GNA_2537101_Capacity	DDOR1001	Camden 1106	Feeder		N/A	\$13,808	New	5/31/2025	1450	16	7	Capacity	2.25	MW	5/31/2025
DDOR1005_GNA_2523601_Capacity	GNA_2523601_Capacity	DDOR1005	San Joaquin Bank 2	Bank and Feeder		\$13,264	N/A	New	5/31/2025	1764	22	7	Capacity	2.39	MW	5/31/2025
DDOR1005_GNA_252361106_Capacity	GNA_252361106_Capacity	DDOR1005	San Joaquin Bank 2	Bank and Feeder		\$13,264	N/A	New	5/31/2025	495	8	7	Capacity	1.16	MW	5/31/2025
DDOR1005_GNA_2536601_Capacity	GNA_2536601_Capacity	DDOR1005	San Joaquin Bank 2	Bank and Feeder		\$13,264	N/A	New	5/31/2025	CC	CC	7	Capacity	CC	MW	5/31/2025
DDOR1007_GNA_1922901_Capacity	GNA_1922901_Capacity	DDOR1007	Carlotta Bank 2	Bank		\$7,500	N/A	Existing	5/31/2025	3341	9	7	Capacity	1.02	MW	5/31/2025
DDOR1007_GNA_192291121_Capacity	GNA_192291121_Capacity	DDOR1007	Carlotta Bank 2	Bank		\$7,500	N/A	Existing	5/31/2025	2976	8	7	Capacity	1.02	MW	5/31/2025
DDOR1008_GNA_2528201_Capacity	GNA_2528201_Capacity	DDOR1008	Old River Bank 2	Bank		\$11,600	N/A	Existing	5/31/2025	CC	CC	7	Capacity	CC	MW	5/31/2025
DDOR1008_GNA_252821102_Capacity	GNA_252821102_Capacity	DDOR1008	Old River Bank 2	Bank		\$11,600	N/A	Existing	5/31/2025	196	5	7	Capacity	0.38	MW	5/31/2025
DDOR1008_GNA_2528202_Capacity	GNA_2528202_Capacity	DDOR1008	Old River Bank 2	Bank		\$11,600	N/A	Existing	5/31/2025	7	1	7	Capacity	0.46	MW	5/31/2025
DDOR102_GNA_0838903_Capacity	GNA_0838903_Capacity	DDOR102	Montague Bank 2	Bank		\$9,400	N/A	Existing	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR102_GNA_0838903_Resiliency	GNA_0838903_Resiliency	DDOR102	Montague Bank 2	Bank		\$9,400	N/A	Existing	5/1/2025	CC	CC	7	Resiliency	CC	MW	5/1/2025
DDOR1026_GNA_024021104_Capacity	GNA_024021104_Capacity	DDOR1026	Ravenswood Substation	Bank and Feeder		\$40,747	N/A	New	4/1/2025	277942	761	7	Capacity	31.73	MW	4/1/2025
DDOR1026_GNA_0240203_Capacity	GNA_0240203_Capacity	DDOR1026	Ravenswood Substation	Bank and Feeder		\$40,747	N/A	New	4/1/2025	357291	979	7	Capacity	40.79	MW	4/1/2025
DDOR1027_GNA_0226904_Capacity	GNA_0226904_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder		\$18,026	N/A	New	5/2/2025	CC	CC	7	Capacity	CC	MW	5/2/2025
DDOR1027_GNA_022691101_Capacity	GNA_022691101_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder		\$18,026	N/A	New	5/2/2025	CC	CC	7	Capacity	CC	MW	5/2/2025
DDOR1027_GNA_0225701_Capacity	GNA_0225701_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder		\$18,026	N/A	New	5/2/2025	CC	CC	7	Capacity	CC	MW	5/2/2025
DDOR1027_GNA_022571112_Capacity	GNA_022571112_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder		\$18,026	N/A	New	5/2/2025	CC	CC	7	Capacity	CC	MW	5/2/2025
DDOR1029_GNA_2545801_Capacity	GNA_2545801_Capacity	DDOR1029	7th Standard Bank 2	Bank and Feeder		\$20,464	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1029_GNA_254582102_Capacity	GNA_254582102_Capacity	DDOR1029	7th Standard Bank 2	Bank and Feeder		\$20,464	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1029_GNA_254582103_Capacity	GNA_254582103_Capacity	DDOR1029	7th Standard Bank 2	Bank and Feeder		\$20,464	N/A	New	5/1/2025	515	8	7	Capacity	1.06	MW	5/1/2025
DDOR1030_GNA_2524601_Capacity	GNA_2524601_Capacity	DDOR1030	Famoso Bank 1	Bank and Feeder		\$12,480	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1030_GNA_252461103_Capacity	GNA_252461103_Capacity	DDOR1030	Famoso Bank 1	Bank and Feeder		\$12,480	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1031_GNA_252901110_Capacity	GNA_252901110_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025	2306	20	7	Capacity	2.89	MW	5/1/2025
DDOR1031_GNA_2545401_Capacity	GNA_2545401_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1031_GNA_254541103_Capacity	GNA_254541103_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1031_GNA_2542001_Capacity	GNA_2542001_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1031_GNA_254202104_Capacity	GNA_254202104_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1031_GNA_2529003_Capacity	GNA_2529003_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1031_GNA_252901108_Capacity	GNA_252901108_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1031_GNA_2529601_Capacity	GNA_2529601_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1031_GNA_252961102_Capacity	GNA_252961102_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1032_GNA_2553201_Capacity	GNA_2553201_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1032_GNA_255322101_Capacity	GNA_255322101_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025	1716	19	7	Capacity	2.66	MW	5/1/2025
DDOR1032_GNA_255322102_Capacity	GNA_255322102_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1032_GNA_2553202_Capacity	GNA_2553202_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025	639	10	7	Capacity	2.46	MW	5/1/2025
DDOR1032_GNA_255322104_Capacity	GNA_255322104_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025	3452	30	7	Capacity	3.78	MW	5/1/2025
DDOR1032_GNA_2534201_Capacity	GNA_2534201_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025	21762	178	7	Capacity	14.86	MW	5/1/2025
DDOR1032_GNA_253422101_Capacity	GNA_253422101_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025	45292	220	7	Capacity	12.93	MW	5/1/2025
DDOR1032_GNA_254572101_Capacity	GNA_254572101_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025	58	2	7	Capacity	0.63	MW	5/1/2025
DDOR1032_GNA_254072112_Capacity	GNA_254072112_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025	16138	113	7	Capacity	8.68	MW	5/1/2025
DDOR1033_GNA_1634806_Capacity	GNA_1634806_Capacity	DDOR1033	Weber Bank 7	Bank and Feeder		\$18,101	N/A	New	5/1/2025	CC	CC	7	Capacity	CC	MW	5/1/2025
DDOR1033_GNA_163481110_Capacity	GNA_163481110_Capacity	DDOR1033	Weber Bank 7	Bank and Feeder		\$18,101	N/A	New	5/1/2025	177514	486	7	Capacity	20.26	MW	5/1/2025
DDOR1034_GNA_0424601_Capacity	GNA_0424601_Capacity	DDOR1034	Tulucay Bank 4	Bank and Feeder		\$17,080	N/A	New	5/31/2025	CC	CC	7	Capacity	CC	MW	5/31/2025
DDOR1034_GNA_0424602_Capacity	GNA_0424602_Capacity	DDOR1034	Tulucay Bank 4	Bank and Feeder		\$17,080	N/A	New	5/31/2025	CC	CC	7	Capacity	CC	MW	5/31/2025
DDOR1034_GNA_042461105_Capacity	GNA_042461105_Capacity	DDOR1034	Tulucay Bank 4	Bank and Feeder		\$17,080	N/A	New	5/31/2025	CC	CC	7	Capacity	CC	MW	5/31/2025
DDOR105_GNA_1636804_Resiliency	GNA_1636804_Resiliency	DDOR105	Lockeford Bank 5	Bank and Feeder		\$13,705	N/A	New	5/1/2025	CC	CC	7	Resiliency	CC	MW	5/1/2025
DDOR109_GNA_2546801_Capacity_RF	GNA_2546801_Capacity_RF	DDOR109	Blackwell Bank 1	Bank		\$7,500	N/A	Existing	6/1/2025	CC	CC	7	Capacity	CC	MW	6/1/2025



Worksheet/Tab	Purpose
General Input	Data includes equipment revenue requirement multipliers and O&M costs as a percentage of direct costs. Generic discount rate and default inflation rate information. 2022 updates include 1.43% property tax factor, 6.77% Discount Factor (2020 Cost of Capital Decision).
LNBA Results-PlannedInvestments	Results of the LNBA values are presented here. For example: Value of Deferral Benefits (\$000s) in Install Year (Capital Benefit in Install Year, O&M Deferral Benefit in Install Year) and Load Forecast year. Normalized Deferral Benefit (\$/kW*yr).
Project Specific Inputs	Utility Inputs: Project specific information such as cost and need for projects.

PG&E 2022 Distribution Deferral Opportunity Report (DDOR)  
Appendix E: LNBA - Planned Investments - General Inputs  
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First load forecast year	8/1/2022	10 year added to first load forecast year
After Tax Weighted Cost of Capital (ATWACC)	6.77%	
Cost Year Basis*	8/1/2022	
End of Deferral year	7/31/2032	

Legend	
	Input
	Reference value
	Calculated

	2022 Cost			
Input	General	Substation Bank	Primary Feeder	Poles and towers
Revenue Requirement Multiplier (Fixed Costs)	145.54%	144.3%	146.8%	150.7%
Revenue Requirement Multiplier With O&M	247.78%	186.5%	309.1%	310.5%
Equipment Inflation	2.5%	2.5%	2.5%	2.5%
O&M Inflation	2.5%	2.5%	2.5%	2.5%
O&M Factor	5.15%	2.13%	8.18%	8.18%
O&M Old Eqpt	0.0%	0.0%	0.0%	0.0%
Book Life	46	46	46	44
RECC	0.04722	0.04722	0.04722	0.0480
Discount rate net or project inflation (5/yr)	4.17%	4.17%	4.17%	4.17%

(\*) 2022 updates include 1.43% property tax factor, 6.77% Discount Factor (2020 Cost of Capital Decision). Multipliers continue to use May 1, 2022 depreciation rates and O&M factors from 2020 tool.

\*\*For projects with hybrid (Bank and Feeder) needs use the General during detailed analysis

2022 Multiplier Details									
2022	Rate	Ratio	WACC	TR	ATWACC		Station Equipment	OH Conductors & Devices	Poles, Towers, & Fixtures
Bond Interest	4.17	0.48	2.00		1.44	SalVal	-40	-90	-150
Equity	10.25	0.52	5.33		5.33	ServLife	46	46	44
Adopted			7.33	0.2798	6.77	PVRR (Fixed)	144.31	146.77	150.67
						PVRR W/O&M	186.50	309.06	310.47
						O&M factor	2.13%	8.18%	8.18%

Description	PVRR	PVRR	PVRR
Return on Investment	52.28%	52.28%	52.71%
Book Depreciation	52.71%	55.16%	58.64%
Federal and State Income Taxes	14.51%	14.51%	14.58%
Property Tax	14.56%	14.56%	14.56%
Insurance	10.25%	10.25%	10.18%
Subtotal of Fixed Charges	144.31%	146.77%	150.67%
M&O	42.19%	162.30%	159.80%
Total	186.50%	309.06%	310.47%

PG&E 2022 Distribution Deferral Opportunity Report (DDOR)

Appendix E: LNBA - Planned Investments - Results

Version Date: 08/15/2022

Public

Unique ID	GNA ID	DDOR ID	Project Name	Project Type	New or Existing Equipment	Project Cost (\$)	Distribution Service Required	Revenue Requirement Multiplier	Discount Rate (%/yr)	Equipment Inflation	O&M Inflation	Book Life (Year)	DER Install Year	Cost year basis	Analysis Year	Years (10-Year Period)	Real Economic Carrying Cost (RECC)	Discount rate net or project inflation (5/yr)	Revenue Requirement (RR) Install Yr \$'s	RR * RECC	Value of Deferral Benefits (\$000s) in Install Year (Capital + O&M)	Value of Deferral Benefit (\$000s) in 2022	Grid Need (MW/Vpu/MVA R)	Units	Sum of Needs per project (MW/Vpu/MVA R)	Units	Number of Needs solved by project	Estimated LNBA Value (\$/kW-yr)	Estimated LNBA Value (\$/Vpu-yr)	LNBA Value Range (\$/kW-yr)	LNBA Value Range (\$/Vpu-yr)	
DDOR001_GNA_0820201_Capacity	GNA_0820201_Capacity	DDOR001	Vasona 1106	Feeder	New	\$5,105	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	15680	740	6204	6307	1.3	MW	6.2	MW	5	\$67				
DDOR001_GNA_0820202_Capacity	GNA_0820202_Capacity	DDOR001	Vasona 1106	Feeder	New	\$5,105	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	15680	740	6204	6307	2.9	MW	6.2	MW	5	\$67				
DDOR001_GNA_0837701_Capacity	GNA_0837701_Capacity	DDOR001	Vasona 1106	Feeder	New	\$5,105	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	15680	740	CC	CC	CC	MW	CC	MW	5	\$67				
DDOR001_GNA_083771102_Capacity	GNA_083771102_Capacity	DDOR001	Vasona 1106	Feeder	New	\$5,105	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	15680	740	6204	6307	1.2	MW	6.2	MW	5	\$67				
DDOR001_GNA_083771103_Capacity	GNA_083771103_Capacity	DDOR001	Vasona 1106	Feeder	New	\$5,105	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	15680	740	6204	6307	0.8	MW	6.2	MW	5	\$67		\$50-\$100		
DDOR002_GNA_0829502_Capacity	GNA_0829502_Capacity	DDOR002	Santa Teresa Sub - new bank	Bank and Feeder	New	\$15,644	Capacity	247.8%	6.77%	2.5%	2.5%	46	2/2/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	38294	1808	CC	CC	CC	MW	CC	MW	5	\$39				
DDOR002_GNA_082952107_Capacity	GNA_082952107_Capacity	DDOR002	Santa Teresa Sub - new bank	Bank and Feeder	New	\$15,644	Capacity	247.8%	6.77%	2.5%	2.5%	46	2/2/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	38294	1808	CC	CC	CC	MW	CC	MW	5	\$39				
DDOR002_GNA_0829504_Capacity	GNA_0829504_Capacity	DDOR002	Santa Teresa Sub - new bank	Bank and Feeder	New	\$15,644	Capacity	247.8%	6.77%	2.5%	2.5%	46	2/2/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	38294	1808	CC	CC	CC	MW	CC	MW	5	\$39				
DDOR002_GNA_082952111_Capacity	GNA_082952111_Capacity	DDOR002	Santa Teresa Sub - new bank	Bank and Feeder	New	\$15,644	Capacity	247.8%	6.77%	2.5%	2.5%	46	2/2/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	38294	1808	CC	CC	CC	MW	CC	MW	5	\$39				
DDOR002_GNA_082952112_Capacity	GNA_082952112_Capacity	DDOR002	Santa Teresa Sub - new bank	Bank and Feeder	New	\$15,644	Capacity	247.8%	6.77%	2.5%	2.5%	46	2/2/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	38294	1808	CC	CC	CC	MW	CC	MW	5	\$39		\$0-\$50		
DDOR004_GNA_014592112_Capacity	GNA_014592112_Capacity	DDOR004	Brentwood 2104	Feeder	New	\$5,635	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	17308	817	6848	6961	2.3	MW	8.3	MW	2	\$84				
DDOR004_GNA_014592112_Reliability	GNA_014592112_Reliability	DDOR004	Brentwood 2104	Feeder	New	\$5,635	Reliability	309.1%	6.77%	2.5%	2.5%	46	5/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	17308	817	6848	6961	6.0	MW	8.3	MW	2	\$84		\$50-\$100		
DDOR007_GNA_0834302_Capacity	GNA_0834302_Capacity	DDOR007	Almaden 1112	Feeder	New	\$1,653	Capacity	309.1%	6.77%	2.5%	2.5%	46	12/30/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	5161	244	2042	1987	3.0	MW	4.2	MW	2	\$47				
DDOR007_GNA_083431110_Capacity	GNA_083431110_Capacity	DDOR007	Almaden 1112	Feeder	New	\$1,653	Capacity	309.1%	6.77%	2.5%	2.5%	46	12/30/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	5161	244	2042	1987	1.2	MW	4.2	MW	2	\$47		\$0-\$50		
DDOR009_GNA_0138005_Reliability	GNA_0138005_Reliability	DDOR009	ROSSMOOR 1109	Feeder	New	\$16,988	Reliability	309.1%	6.77%	2.5%	2.5%	46	12/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	54260	2562	CC	CC	CC	MW	CC	MW	1	\$150		\$100-\$200		
DDOR010_GNA_254091102_Capacity	GNA_254091102_Capacity	DDOR010	Dinuba 1103	Feeder	New	\$1,258	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	3969	187	1440	1364	0.7	MW	5.7	MW	3	\$26				
DDOR010_GNA_254091104_Capacity	GNA_254091104_Capacity	DDOR010	Dinuba 1103	Feeder	New	\$1,258	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	3969	187	1440	1364	2.6	MW	5.7	MW	3	\$26				
DDOR010_GNA_254091105_Capacity	GNA_254091105_Capacity	DDOR010	Dinuba 1103	Feeder	New	\$1,258	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	3969	187	1440	1364	2.5	MW	5.7	MW	3	\$26		\$0-\$50		
DDOR012_GNA_012232109_Capacity	GNA_012232109_Capacity	DDOR012	Newark 2111	Feeder	New	\$3,180	Capacity	309.1%	6.77%	2.5%	2.5%	46	1/10/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	9694	458	CC	CC	CC	MW	CC	MW	2	\$18				
DDOR012_GNA_0122322_Capacity	GNA_0122322_Capacity	DDOR012	Newark 2111	Feeder	New	\$3,180	Capacity	309.1%	6.77%	2.5%	2.5%	46	1/10/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	9694	458	CC	CC	CC	MW	CC	MW	2	\$18		\$0-\$50		
DDOR013_GNA_022571113_Capacity	GNA_022571113_Capacity	DDOR013	East Grand 1116	Feeder	New	\$3,236	Capacity	309.1%	6.77%	2.5%	2.5%	46	2/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	9880	466	CC	CC	CC	MW	CC	MW	5	\$18				
DDOR013_GNA_0225705_Capacity	GNA_0225705_Capacity	DDOR013	East Grand 1116	Feeder	New	\$3,236	Capacity	309.1%	6.77%	2.5%	2.5%	46	2/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	9880	466	CC	CC	CC	MW	CC	MW	5	\$18				
DDOR013_GNA_022571109_Capacity	GNA_022571109_Capacity	DDOR013	East Grand 1116	Feeder	New	\$3,236	Capacity	309.1%	6.77%	2.5%	2.5%	46	2/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	9880	466	CC	CC	CC	MW	CC	MW	5	\$18				
DDOR013_GNA_0225704_Capacity	GNA_0225704_Capacity	DDOR013	East Grand 1116	Feeder	New	\$3,236	Capacity	309.1%	6.77%	2.5%	2.5%	46	2/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	9880	466	CC	CC	CC	MW	CC	MW	5	\$18				
DDOR013_GNA_022571107_Capacity	GNA_022571107_Capacity	DDOR013	East Grand 1116	Feeder	New	\$3,236	Capacity	309.1%	6.77%	2.5%	2.5%	46	2/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	9880	466	CC	CC	CC	MW	CC	MW	5	\$18		\$0-\$50		
DDOR014_GNA_022011125_Capacity	GNA_022011125_Capacity	DDOR014	Mission X 1113 Reinforcement	Line Section	Existing	\$4,375	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	6395	302	CC	CC	CC	MW	CC	MW	1	\$0		\$0-\$50		
DDOR015_GNA_022031108_Capacity	GNA_022031108_Capacity	DDOR015	Potrero A 1108	Feeder	Existing	\$2,925	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	4275	202	1692	1710	15.0	MW	15.0	MW	1	\$11		\$0-\$50		
DDOR016_GNA_022011120_Capacity	GNA_022011120_Capacity	DDOR016	MISSION (SF X) 1120	Feeder	Existing	\$3,725	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	5445	257	CC	CC	CC	MW	CC	MW	1	\$189		\$100-\$200		
DDOR017_GNA_013501112_Resiliency	GNA_013501112_Resiliency	DDOR017	Jarvis Bank 2	Bank and Feeder	Existing	\$10,854	Resiliency	145.5%	6.77%	2.5%	2.5%	46	7/31/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	15796	746	6249	6251	1.4	MW	1.6	MW	3	\$273				
DDOR017_GNA_013501105_Resiliency	GNA_013501105_Resiliency	DDOR017	Jarvis Bank 2	Bank and Feeder	Existing	\$10,854	Resiliency	145.5%	6.77%	2.5%	2.5%	46	7/31/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	15796	746	6249	6251	0.1	MW	1.6	MW	3	\$273				
DDOR017_GNA_013501111_Resiliency	GNA_013501111_Resiliency	DDOR017	Jarvis Bank 2	Bank and Feeder	Existing	\$10,854	Resiliency	145.5%	6.77%	2.5%	2.5%	46	7/31/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	15796	746	CC	CC	CC	MW	CC	MW	3	\$273		\$200-500		
DDOR018_GNA_1627701_Capacity	GNA_1627701_Capacity	DDOR018	Lammers 1108	Feeder	New	\$3,231	Capacity	309.1%	6.77%	2.5%	2.5%	46	12/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	10068	475	CC	CC	CC	MW	CC	MW	4	\$27				
DDOR018_GNA_162771101_Capacity	GNA_162771101_Capacity	DDOR018	Lammers 1108	Feeder	New	\$3,231	Capacity	309.1%	6.77%	2.5%	2.5%	46	12/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	10068	475	CC	CC	CC	MW	CC	MW	4	\$27				
DDOR018_GNA_162771102_Capacity	GNA_162771102_Capacity	DDOR018	Lammers 1108	Feeder	New	\$3,231	Capacity	309.1%	6.77%	2.5%	2.5%	46	12/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	10068	475	3983	3897	2.0	MW	4.6	MW	4	\$27				
DDOR018_GNA_162771106_Capacity	GNA_162771106_Capacity	DDOR018	Lammers 1108	Feeder	New	\$3,231	Capacity	309.1%	6.77%	2.5%	2.5%	46	12/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	10068	475	3983	3897	2.6	MW	4.6	MW	4	\$27		\$0-\$50		
DDOR019_GNA_022031113_Capacity	GNA_022031113_Capacity	DDOR019	Potrero A 1113	Feeder	Existing	\$5,925	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	8660	409	CC	CC	CC	MW	CC	MW	1	\$95		\$50-\$100		
DDOR020_GNA_022031119_Capacity	GNA_022031119_Capacity	DDOR020	Potrero A 1119	Feeder	Existing	\$2,925	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	4275	202	1692	1710	0.9	MW	0.9	MW	1	\$194		\$100-\$200		
DDOR021_GNA_022011102_Capacity	GNA_022011102_Capacity	DDOR021	Mission X 1101	Feeder	Existing	\$3,225	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	4714	223	CC	CC	CC	MW	CC	MW	1	\$45		\$0-\$50		
DDOR023_GNA_1823501_Capacity	GNA_1823501_Capacity	DDOR023	Dolan Bank	Bank	New	\$8,352	Capacity	186.5%	6.77%	2.5%	2.5%	46	10/31/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	15673	740	6201	6100	4.7	MW	4.7	MW	1	\$130		\$100-\$200		
DDOR025_GNA_162301101_Reliability	GNA_162301101_Reliability	DDOR025	Valley Springs 1102	Feeder	New	\$1,873	Reliability	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	5765	272	2281	2306	5.2									

Unique ID	GNA ID	DDOR ID	Project Name	Project Type	New or Existing Equipment	Project Cost (\$)	Distribution Service Required	Revenue Requirement Multiplier	Discount Rate (%/yr)	Equipment Inflation	O&M Inflation	Book Life (Year)	DER Install Year	Cost year basis	Analysis Year	Years (10-Year Period)	Real Economic Carrying Cost (RECC)	Discount rate net or project inflation (5/yr)	Revenue Requirement (RR) Install Yr \$'s	RR * RECC	Value of Deferral Benefits (\$000s) in Install Year (Capital + O&M)	Value of Deferral Benefit (\$000s) in 2022	Grid Need (MW/Vpu/MVA R)	Units	Sum of Needs per project (MW/Vpu/MVA R)	Units	Number of Needs solved by project	Estimated LNBA Value (\$/kW-yr)	Estimated LNBA Value (\$/Vpu-yr)	LNBA Value Range (\$/kW-yr)	LNBA Value Range (\$/Vpu-yr)
DDOR050_GNA_083622106_Resiliency	GNA_083622106_Resiliency	DDOR050	Camp Evers 2107	Feeder	New	\$2,190	Resiliency	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	6894	326	2502	2383	0.9	MW	0.9	MW	1	\$302		\$200-\$500	
DDOR051_GNA_0241605_Capacity	GNA_0241605_Capacity	DDOR051	Bair 1106	Feeder	New	\$7,620	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	23989	1133	CC	CC	CC	MW	CC	MW	2	\$72			
DDOR051_GNA_024161104_Capacity	GNA_024161104_Capacity	DDOR051	Bair 1106	Feeder	New	\$7,620	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	23989	1133	CC	CC	CC	MW	CC	MW	2	\$72		\$50-\$100	
DDOR052_GNA_1822202_Capacity	GNA_1822202_Capacity	DDOR052	Monterey Bank 1	Bank and Feeder	New	\$23,662	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	59722	2820	CC	CC	CC	MW	CC	MW	3	\$228			
DDOR052_GNA_182222104_Resiliency	GNA_182222104_Resiliency	DDOR052	Monterey Bank 1	Bank and Feeder	New	\$23,662	Resiliency	247.8%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	59722	2820	21675	20640	1.3	MW	7.7	MW	3	\$228			
DDOR052_GNA_182222105_Resiliency	GNA_182222105_Resiliency	DDOR052	Monterey Bank 1	Bank and Feeder	New	\$23,662	Resiliency	247.8%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	59722	2820	21675	20640	6.4	MW	7.7	MW	3	\$228		\$200-\$500	
DDOR053_GNA_1829501_Capacity	GNA_1829501_Capacity	DDOR053	San Luis Obispo 1106	Feeder	New	\$3,451	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	10864	513	3943	3755	1.3	MW	4.8	MW	3	\$86			
DDOR053_GNA_182631102_Capacity	GNA_182631102_Capacity	DDOR053	San Luis Obispo 1106	Feeder	New	\$3,451	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	10864	513	3943	3755	1.7	MW	4.8	MW	3	\$86			
DDOR053_GNA_182631108_Capacity	GNA_182631108_Capacity	DDOR053	San Luis Obispo 1106	Feeder	New	\$3,451	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	10864	513	3943	3755	1.9	MW	4.8	MW	3	\$86		\$50-\$100	
DDOR054_GNA_0427101_Capacity	GNA_0427101_Capacity	DDOR054	Calistoga Bank 1	Bank	Existing	\$7,350	Capacity	144.3%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	10804	510	3921	3734	1.5	MW	4.0	MW	2	\$104			
DDOR054_GNA_042711102_Capacity	GNA_042711102_Capacity	DDOR054	Calistoga Bank 1	Bank	Existing	\$7,350	Capacity	144.3%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	10804	510	3921	3734	2.5	MW	4.0	MW	2	\$104		\$100-\$200	
DDOR055_GNA_182631105_Capacity	GNA_182631105_Capacity	DDOR055	Tulucay 1102	Feeder	New	\$4,400	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	13852	654	CC	CC	CC	MW	CC	MW	2	\$19			
DDOR055_GNA_042301101_Capacity	GNA_042301101_Capacity	DDOR055	Tulucay 1102	Feeder	New	\$4,400	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	13852	654	CC	CC	CC	MW	CC	MW	2	\$19		\$0-\$50	
DDOR056_GNA_2520901_Capacity	GNA_2520901_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder	New	\$12,800	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	33116	1564	CC	CC	CC	MW	CC	MW	8	\$52			
DDOR056_GNA_252091101_Capacity	GNA_252091101_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder	New	\$12,800	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	33116	1564	CC	CC	CC	MW	CC	MW	8	\$52			
DDOR056_GNA_252091104_Capacity	GNA_252091104_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder	New	\$12,800	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	33116	1564	CC	CC	CC	MW	CC	MW	8	\$52			
DDOR056_GNA_252091106_Capacity	GNA_252091106_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder	New	\$12,800	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	33116	1564	10891	9712	1.0	MW	3.9	MW	8	\$52			
DDOR056_GNA_2520902_Capacity	GNA_2520902_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder	New	\$12,800	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	33116	1564	CC	CC	CC	MW	CC	MW	8	\$52			
DDOR056_GNA_2543101_Capacity	GNA_2543101_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder	New	\$12,800	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	33116	1564	10891	9712	2.9	MW	3.9	MW	8	\$52			
DDOR056_GNA_2546403_Capacity	GNA_2546403_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder	New	\$12,800	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	33116	1564	CC	CC	CC	MW	CC	MW	8	\$52			
DDOR056_GNA_254641110_Capacity	GNA_254641110_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder	New	\$12,800	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	33116	1564	CC	CC	CC	MW	CC	MW	8	\$52		\$50-\$100	
DDOR057_GNA_2529003_Capacity	GNA_2529003_Capacity	DDOR057	Semitropic 1108	Feeder	Existing	\$2,300	Capacity	146.8%	6.77%	2.5%	2.5%	46	5/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	3355	158	CC	CC	CC	MW	CC	MW	2	\$8			
DDOR057_GNA_252901108_Capacity	GNA_252901108_Capacity	DDOR057	Semitropic 1108	Feeder	Existing	\$2,300	Capacity	146.8%	6.77%	2.5%	2.5%	46	5/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	3355	158	CC	CC	CC	MW	CC	MW	2	\$8		\$0-\$50	
DDOR058_GNA_2534801_Capacity	GNA_2534801_Capacity	DDOR058	Wheeler Ridge Bank 1	Bank	Existing	\$2,500	Capacity	144.3%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	3675	174	CC	CC	CC	MW	CC	MW	1	\$19		\$0-\$50	
DDOR059_GNA_254552102_Capacity	GNA_254552102_Capacity	DDOR059	Figarden 2114	Feeder	New	\$950	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	2991	141	1085	1034	3.3	MW	3.3	MW	1	\$34		\$0-\$50	
DDOR060_GNA_1626108_Capacity	GNA_1626108_Capacity	DDOR060	VIERRA 1704	Feeder	New	\$1,900	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	5982	282	2171	2067	6.0	MW	27.4	MW	4	\$8			
DDOR060_GNA_162611708_Capacity	GNA_162611708_Capacity	DDOR060	VIERRA 1704	Feeder	New	\$1,900	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	5982	282	2171	2067	0.6	MW	27.4	MW	4	\$8			
DDOR060_GNA_1627002_Capacity	GNA_1627002_Capacity	DDOR060	VIERRA 1704	Feeder	New	\$1,900	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	5982	282	2171	2067	8.8	MW	27.4	MW	4	\$8			
DDOR060_GNA_162701706_Capacity	GNA_162701706_Capacity	DDOR060	VIERRA 1704	Feeder	New	\$1,900	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	5982	282	2171	2067	12.0	MW	27.4	MW	4	\$8		\$0-\$50	
DDOR061_GNA_153781105_Capacity	GNA_153781105_Capacity	DDOR061	Bogue 1108	Feeder	New	\$2,096	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	6612	312	2400	2273	1.6	MW	4.9	MW	3	\$52			
DDOR061_GNA_153781106_Capacity	GNA_153781106_Capacity	DDOR061	Bogue 1108	Feeder	New	\$2,096	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	6612	312	2400	2273	0.8	MW	4.9	MW	3	\$52			
DDOR061_GNA_153781105_Reliability	GNA_153781105_Reliability	DDOR061	Bogue 1108	Feeder	New	\$2,096	Reliability	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	6612	312	2400	2273	2.5	MW	4.9	MW	3	\$52		\$50-\$100	
DDOR062_GNA_0136803_Capacity	GNA_0136803_Capacity	DDOR062	Edes 1102	Feeder	New	\$2,420	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	7635	360	CC	CC	CC	MW	CC	MW	1	\$42		\$0-\$50	
DDOR063_GNA_0142601_Capacity	GNA_0142601_Capacity	DDOR063	San Pablo 1104	Feeder	New	\$5,420	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	17099	807	6206	5877	2.2	MW	2.9	MW	2	\$222			
DDOR063_GNA_0143402_Capacity	GNA_0143402_Capacity	DDOR063	San Pablo 1104	Feeder	New	\$5,420	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	17099	807	6206	5877	0.7	MW	2.9	MW	2	\$222		\$200-\$500	
DDOR064_GNA_1824903_Capacity	GNA_1824903_Capacity	DDOR064	Hollister Bank 2	Feeder	New	\$8,250	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	26027	1229	9446	8945	22.3	MW	31.6	MW	2	\$31			
DDOR064_GNA_182492104_Capacity	GNA_182492104_Capacity	DDOR064	Hollister Bank 2	Feeder	New	\$8,250	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	26027	1229	9446	8945	9.3	MW	31.6	MW	2	\$31		\$0-\$50	
DDOR065_GNA_0820301_Capacity	GNA_0820301_Capacity	DDOR065	Mountain View Bank 1	Bank	Existing	\$6,000	Capacity	144.3%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	8838	417	3208	3038	4.6	MW	4.6	MW	1	\$74		\$50-\$100	
DDOR066_GNA_083371104_Capacity	GNA_083371104_Capacity	DDOR066	Vasona 1109	Line Section	New	\$2,775	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	7	0.04722	4.17%	9198	434	CC	CC	CC	MW	CC	MW	1	\$148		\$100-\$200	
DDOR067_GNA_1922501_Capacity	GNA_1922501_Capacity	DDOR067	Rio Dell Bank	Bank and Feeder	New	\$16,800	Capacity	247.8%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	42491	2006	CC	CC	CC	MW	CC	MW	2	\$107			
DDOR067_GNA_192251101_Capacity	GNA_192251101_Capacity	DDOR067	Rio Dell Bank	Bank and Feeder	New	\$16,800	Capacity	247.8%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022																



Unique ID	GNA ID	DDOR ID	Project Name	Project Type	New or Existing Equipment	Project Cost (\$)	Distribution Service Required	Revenue Requirement Multiplier	Discount Rate (%/yr)	Equipment Inflation	O&M Inflation	Book Life (Year)	DER Install Year	Cost year basis	Analysis Year	Years (10-Year Period)	Real Economic Carrying Cost (RECC)	Discount rate net or project inflation (5/yr)	Revenue Requirement (RR) Install Yr \$'s	RR * RECC	Value of Deferral Benefits (\$000s) in Install Year (Capital + O&M)	Value of Deferral Benefit (\$000s) in 2022	Grid Need (MW/Vpu/MVA R)	Units	Sum of Needs per project (MW/Vpu/MVA R)	Units	Number of Needs solved by project	Estimated LNBA Value (\$/kW-yr)	Estimated LNBA Value (\$/Vpu-yr)	LNBA Value Range (\$/kW-yr)	LNBA Value Range (\$/Vpu-yr)	
DDOR081_GNA_252041102_Capacit	GNA_252041102_Capacity	DDOR081	Airways Bank 3	Bank and Feeder	New	\$8,500	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	21991	1038	7232	6449	1.8	MW	11.2	MW	6	\$72				
DDOR081_GNA_252041107_Capacit	GNA_252041107_Capacity	DDOR081	Airways Bank 3	Bank and Feeder	New	\$8,500	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	21991	1038	7232	6449	2.2	MW	11.2	MW	6	\$72				
DDOR081_GNA_254081102_Capacit	GNA_254081102_Capacity	DDOR081	Airways Bank 3	Bank and Feeder	New	\$8,500	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	21991	1038	7232	6449	0.2	MW	11.2	MW	6	\$72				
DDOR081_GNA_252411104_Capacit	GNA_252411104_Capacity	DDOR081	Airways Bank 3	Bank and Feeder	New	\$8,500	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	21991	1038	7232	6449	0.9	MW	11.2	MW	6	\$72			\$50-\$100	
DDOR082_GNA_2521602_Capacity	GNA_2521602_Capacity	DDOR082	Coalinga No 1 Bank 2	Bank and Feeder	Existing	\$6,000	Capacity	145.5%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	9118	431	CC	CC	CC	MW	CC	MW	2	\$41				
DDOR082_GNA_252161107_Capacit	GNA_252161107_Capacity	DDOR082	Coalinga No 1 Bank 2	Bank and Feeder	Existing	\$6,000	Capacity	145.5%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	9118	431	CC	CC	CC	MW	CC	MW	2	\$41			\$0-\$50	
DDOR083_GNA_0240203_Capacity	GNA_0240203_Capacity	DDOR083	Belle Haven Bank 4	Bank and Feeder	Existing	\$14,787	Capacity	145.5%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	22471	1061	7390	6590	40.8	MW	44.0	MW	3	\$18				
DDOR083_GNA_024021103_Capacit	GNA_024021103_Capacity	DDOR083	Belle Haven Bank 4	Bank and Feeder	Existing	\$14,787	Capacity	145.5%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	22471	1061	7390	6590	3.2	MW	44.0	MW	3	\$18				
DDOR083_GNA_0240204_Capacity	GNA_0240204_Capacity	DDOR083	Belle Haven Bank 4	Bank and Feeder	Existing	\$14,787	Capacity	145.5%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	22471	1061	CC	CC	CC	MW	CC	MW	3	\$18			\$0-\$50	
DDOR085_GNA_1626107_Capacity	GNA_1626107_Capacity	DDOR085	Ripon 1705	Feeder	New	\$2,261	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	7296	344	CC	CC	CC	MW	CC	MW	4	\$20				
DDOR085_GNA_1638002_Capacity	GNA_1638002_Capacity	DDOR085	Ripon 1705	Feeder	New	\$2,261	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	7296	344	2400	2140	1.1	MW	9.3	MW	4	\$20				
DDOR085_GNA_163801704_Capacit	GNA_163801704_Capacity	DDOR085	Ripon 1705	Feeder	New	\$2,261	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	7296	344	2400	2140	2.2	MW	9.3	MW	4	\$20				
DDOR085_GNA_162701707_Capacit	GNA_162701707_Capacity	DDOR085	Ripon 1705	Feeder	New	\$2,261	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	7296	344	2400	2140	5.9	MW	9.3	MW	4	\$20			\$0-\$50	
DDOR086_GNA_1632901_Capacity	GNA_1632901_Capacity	DDOR086	French Camp Bank 1	Bank and Feeder	Existing	\$10,000	Capacity	145.5%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	15197	718	CC	CC	CC	MW	CC	MW	3	\$174				
DDOR086_GNA_1632902_Capacity	GNA_1632902_Capacity	DDOR086	French Camp Bank 1	Bank and Feeder	Existing	\$10,000	Capacity	145.5%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	15197	718	CC	CC	CC	MW	CC	MW	3	\$174				
DDOR086_GNA_163291104_Capacit	GNA_163291104_Capacity	DDOR086	French Camp Bank 1	Bank and Feeder	Existing	\$10,000	Capacity	145.5%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	15197	718	4998	4457	0.9	MW	0.9	MW	3	\$174			\$100-\$200	
DDOR087_GNA_1626106_Capacity	GNA_1626106_Capacity	DDOR087	Vierra Bank 3	Feeder	New	\$16,500	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	53246	2514	CC	CC	CC	MW	CC	MW	1	\$962			>\$500	
DDOR088_GNA_2534001_Capacity	GNA_2534001_Capacity	DDOR088	Hammonds Bank 1	Bank and Feeder	Existing	\$7,000	Capacity	145.5%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	10638	502	CC	CC	CC	MW	CC	MW	2	\$31				
DDOR088_GNA_253401104_Capacit	GNA_253401104_Capacity	DDOR088	Hammonds Bank 1	Bank and Feeder	Existing	\$7,000	Capacity	145.5%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	10638	502	CC	CC	CC	MW	CC	MW	2	\$31			\$0-\$50	
DDOR089_GNA_2553901_Capacity	GNA_2553901_Capacity	DDOR089	Bonita Bank 2	Bank and Feeder	New	\$12,800	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	33116	1564	10891	9712	0.9	MW	0.9	MW	1	\$1,334			>\$500	
DDOR091_GNA_1822002_Capacity	GNA_1822002_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder	New	\$15,742	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	41745	1971	CC	CC	CC	MW	CC	MW	4	\$23				
DDOR091_GNA_182201104_Capacit	GNA_182201104_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder	New	\$15,742	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	41745	1971	12248	10230	6.9	MW	6.9	MW	4	\$23				
DDOR091_GNA_182201102_Capacit	GNA_182201102_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder	New	\$15,742	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	41745	1971	CC	CC	CC	MW	CC	MW	4	\$23				
DDOR091_GNA_1822001_Capacity	GNA_1822001_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder	New	\$15,742	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	7	0.04722	4.17%	41745	1971	CC	CC	CC	MW	CC	MW	4	\$23			\$0-\$50	
DDOR092_GNA_1826601_Capacity	GNA_1826601_Capacity	DDOR092	San Miguel Bank 2	Bank and Feeder	New	\$19,760	Capacity	247.8%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	51230	2419	CC	CC	CC	MW	CC	MW	1	\$3,811			>\$500	
DDOR093_GNA_0139103_Capacity	GNA_0139103_Capacity	DDOR093	Willow Pass Bank 1	Bank	Existing	\$16,150	Capacity	144.3%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	24386	1151	8020	7112	6.6	MW	6.6	MW	1	\$136			\$100-\$200	
DDOR094_GNA_1922201_Capacity	GNA_1922201_Capacity	DDOR094	Garberville Bank 2	Bank and Feeder	New	\$54,100	Capacity	247.8%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	140260	6622	46128	40906	8.8	MW	12.2	MW	2	\$420				
DDOR094_GNA_192221102_Capacit	GNA_192221102_Capacity	DDOR094	Garberville Bank 2	Bank and Feeder	New	\$54,100	Capacity	247.8%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	140260	6622	46128	40906	3.4	MW	12.2	MW	2	\$420			\$200-\$500	
DDOR095_GNA_2544603_Capacity	GNA_2544603_Capacity	DDOR095	Newhall Bank 3	Bank and Feeder	Existing	\$17,000	Capacity	145.5%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	25888	1222	CC	CC	CC	MW	CC	MW	2	\$472				
DDOR095_GNA_254461109_Capacit	GNA_254461109_Capacity	DDOR095	Newhall Bank 3	Bank and Feeder	Existing	\$17,000	Capacity	145.5%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	25888	1222	CC	CC	CC	MW	CC	MW	2	\$472			\$200-\$500	
DDOR096_GNA_083371109_Capacit	GNA_083371109_Capacity	DDOR096	Wolfe 1111	Feeder	New	\$8,788	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	28419	1342	CC	CC	CC	MW	CC	MW	4	\$33				
DDOR096_GNA_083371110_Capacit	GNA_083371110_Capacity	DDOR096	Wolfe 1111	Feeder	New	\$8,788	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	28419	1342	9346	8288	0.6	MW	1.2	MW	4	\$33				
DDOR096_GNA_083371114_Capacit	GNA_083371114_Capacity	DDOR096	Wolfe 1111	Feeder	New	\$8,788	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	28419	1342	9346	8288	0.6	MW	1.2	MW	4	\$33				
DDOR096_GNA_083671105_Capacit	GNA_083671105_Capacity	DDOR096	Wolfe 1111	Feeder	New	\$8,788	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	28419	1342	CC	CC	CC	MW	CC	MW	4	\$33			\$0-\$50	
DDOR097_GNA_062041109_Capacit	GNA_062041109_Capacity	DDOR097	Plainfield Bank 1	Bank and Feeder	Existing	\$14,000	Capacity	145.5%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	21320	1007	7012	6218	0.9	MW	0.9	MW	1	\$864			>\$500	
DDOR098_GNA_0835301_Capacity	GNA_0835301_Capacity	DDOR098	Mc Kee 1102	Feeder	New	\$11,700	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	37836	1786	12443	11034	2.9	MW	6.0	MW	4	\$161				
DDOR098_GNA_083531107_Capacit	GNA_083531107_Capacity	DDOR098	Mc Kee 1102	Feeder	New	\$11,700	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	37836	1786	12443	11034	1.9	MW	6.0	MW	4	\$161				
DDOR098_GNA_083531108_Capacit	GNA_083531108_Capacity	DDOR098	Mc Kee 1102	Feeder	New	\$11,700	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	37836	1786	CC	CC	CC	MW	CC	MW	4	\$161				
DDOR098_GNA_083531110_Capacit	GNA_083531110_Capacity	DDOR098	Mc Kee 1102	Feeder	New	\$11,700	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	37836	1786	12443	11034	1.2	MW	6.0	MW	4	\$161			\$100-\$200	
DDOR1000_GNA_253931101_Capacit	GNA_253931101_Capacity	DDOR1000	GATES 1101	Feeder	New	\$2,800	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	9036	427	CC	CC	CC	MW	CC	MW	1					

Unique ID	GNA ID	DDOR ID	Project Name	Project Type	New or Existing Equipment	Project Cost (\$)	Distribution Service Required	Revenue Requirement Multiplier	Discount Rate (%/yr)	Equipment Inflation	O&M Inflation	Book Life (Year)	DER Install Year	Cost year basis	Analysis Year	Years (10- Year Period)	Real Economic Carrying Cost (RECC)	Discount rate net or project inflation (5/yr)	Revenue Requirement (RR) Install Yr \$'s	RR * RECC	Value of Deferral Benefits (\$000s) in Install Year (Capital + O&M)	Value of Deferral Benefit (\$000s) in 2022	Grid Need (MW/Vpu/MVA R)	Units	Sum of Needs per project (MW/Vpu/MVA R)	Units	Number of Needs solved by project	Estimated LNBA Value (\$/kW-yr)	Estimated LNBA Value (\$/Vpu-yr)	LNBA Value Range (\$/kW-yr)	LNBA Value Range (\$/Vpu-yr)
DDOR1012_GNA_022261102_Capac	GNA_022261102_Capacity	DDOR1012	Mission X 1110 Circuit Extension	Feeder	Existing	\$1,174	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	1716	81	CC	CC	CC	MW	CC	MW	1	\$0		\$0-\$50	
DDOR1014_GNA_1524602_Capacity	GNA_1524602_Capacity	DDOR1014	Placer Bank 2	Bank	Existing	\$2,500	Capacity	144.3%	6.77%	2.5%	2.5%	46	12/31/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	3645	172	CC	CC	CC	MW	CC	MW	1	\$0		\$0-\$50	
DDOR1015_GNA_024091102_Capac	GNA_024091102_Capacity	DDOR1015	Glenwood 1103	Feeder	New	\$761	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	2401	113	871	825	0.6	MW	0.6	MW	1	\$158		\$100-\$200	
DDOR1016_GNA_0220301_Capacity	GNA_0220301_Capacity	DDOR1016	Potrero 1122	Feeder	New	\$1,714	Capacity	309.1%	6.77%	2.5%	2.5%	46	10/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	5452	257	CC	CC	CC	MW	CC	MW	2	\$4			
DDOR1016_GNA_022031121_Capac	GNA_022031121_Capacity	DDOR1016	Potrero 1122	Feeder	New	\$1,714	Capacity	309.1%	6.77%	2.5%	2.5%	46	10/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	5452	257	CC	CC	CC	MW	CC	MW	2	\$4		\$0-\$50	
DDOR1017_GNA_0627201_Capacity	GNA_0627201_Capacity	DDOR1017	Knights Landing Bank 1	Bank	New	\$1,000	Capacity	186.5%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	1900	90	689	657	1.2	MW	4.5	MW	2	\$16			
DDOR1017_GNA_0631901_Capacity	GNA_0631901_Capacity	DDOR1017	Knights Landing Bank 1	Bank	New	\$1,000	Capacity	186.5%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	1900	90	689	657	3.3	MW	4.5	MW	2	\$16		\$0-\$50	
DDOR1018_GNA_0627201_Capacity	GNA_0627201_Capacity	DDOR1018	Knights Landing Bank 1	Bank	New	\$2,500	Capacity	186.5%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	4749	224	1724	1641	1.2	MW	4.5	MW	2	\$41			
DDOR1018_GNA_0631901_Capacity	GNA_0631901_Capacity	DDOR1018	Knights Landing Bank 1	Bank	New	\$2,500	Capacity	186.5%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	4749	224	1724	1641	3.3	MW	4.5	MW	2	\$41		\$0-\$50	
DDOR1019_GNA_2545701_Capacity	GNA_2545701_Capacity	DDOR1019	Renfro 2106	Feeder	New	\$500	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	1614	76	CC	CC	CC	MW	CC	MW	1	\$123		\$100-\$200	
DDOR102_GNA_0838903_Capacity	GNA_0838903_Capacity	DDOR102	Montague Bank 2	Bank	Existing	\$9,400	Capacity	144.3%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	14518	685	CC	CC	CC	MW	CC	MW	2	\$63			
DDOR102_GNA_0838903_Resiliency	GNA_0838903_Resiliency	DDOR102	Montague Bank 2	Bank	Existing	\$9,400	Resiliency	144.3%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	14518	685	CC	CC	CC	MW	CC	MW	2	\$63		\$50-\$100	
DDOR1020_GNA_2546901_Capacity	GNA_2546901_Capacity	DDOR1020	Tupman Bank 2	Feeder	New	\$2,800	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	9036	427	CC	CC	CC	MW	CC	MW	2	\$28			
DDOR1020_GNA_254691101_Capac	GNA_254691101_Capacity	DDOR1020	Tupman Bank 2	Feeder	New	\$2,800	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	9036	427	CC	CC	CC	MW	CC	MW	2	\$28		\$0-\$50	
DDOR1022_GNA_162991101_Capac	GNA_162991101_Capacity	DDOR1022	Corral 1104	Feeder	New	\$3,000	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	9701	458	3191	2829	1.6	MW	1.6	MW	1	\$228		\$200-\$00	
DDOR1023_GNA_2527601_Capacity	GNA_2527601_Capacity	DDOR1023	Madera Bank 1	Bank	Existing	\$13,100	Capacity	144.3%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	19739	932	CC	CC	CC	MW	CC	MW	2	\$78			
DDOR1023_GNA_252761112_Capac	GNA_252761112_Capacity	DDOR1023	Madera Bank 1	Bank	Existing	\$13,100	Capacity	144.3%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	19739	932	CC	CC	CC	MW	CC	MW	2	\$78		\$50-\$100	
DDOR1025_GNA_1027401_Capacity	GNA_1027401_Capacity	DDOR1025	Logan Creek Bank 3	Bank and Feeder	New	\$10,000	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	25872	1222	8509	7587	10.0	MW	15.9	MW	2	\$60			
DDOR1025_GNA_102741101_Capac	GNA_102741101_Capacity	DDOR1025	Logan Creek Bank 3	Bank and Feeder	New	\$10,000	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	25872	1222	8509	7587	5.9	MW	15.9	MW	2	\$60		\$50-\$100	
DDOR1026_GNA_024021104_Capac	GNA_024021104_Capacity	DDOR1026	Ravenswood Substation	Bank and Feeder	New	\$40,747	Capacity	247.8%	6.77%	2.5%	2.5%	46	4/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	107835	5091	31638	26567	31.7	MW	72.5	MW	2	\$52			
DDOR1026_GNA_0240203_Capacity	GNA_0240203_Capacity	DDOR1026	Ravenswood Substation	Bank and Feeder	New	\$40,747	Capacity	247.8%	6.77%	2.5%	2.5%	46	4/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	107835	5091	31638	26567	40.8	MW	72.5	MW	2	\$52		\$50-\$100	
DDOR1027_GNA_0226904_Capacity	GNA_0226904_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder	New	\$18,026	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/2/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	47805	2257	CC	CC	CC	MW	CC	MW	4	\$107			
DDOR1027_GNA_022691101_Capac	GNA_022691101_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder	New	\$18,026	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/2/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	47805	2257	CC	CC	CC	MW	CC	MW	4	\$107			
DDOR1027_GNA_0225701_Capacity	GNA_0225701_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder	New	\$18,026	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/2/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	47805	2257	CC	CC	CC	MW	CC	MW	4	\$107			
DDOR1027_GNA_022571112_Capac	GNA_022571112_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder	New	\$18,026	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/2/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	47805	2257	CC	CC	CC	MW	CC	MW	4	\$107		\$100-\$200	
DDOR1029_GNA_2545801_Capacity	GNA_2545801_Capacity	DDOR1029	7th Standard Bank 2	Bank and Feeder	New	\$20,464	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	54267	2562	CC	CC	CC	MW	CC	MW	3	\$48			
DDOR1029_GNA_254582102_Capac	GNA_254582102_Capacity	DDOR1029	7th Standard Bank 2	Bank and Feeder	New	\$20,464	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	54267	2562	CC	CC	CC	MW	CC	MW	3	\$48			
DDOR1029_GNA_254582103_Capac	GNA_254582103_Capacity	DDOR1029	7th Standard Bank 2	Bank and Feeder	New	\$20,464	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	54267	2562	15922	13298	1.1	MW	1.1	MW	3	\$48		\$0-\$50	
DDOR103_GNA_0433202_Capacity	GNA_0433202_Capacity	DDOR103	Rincon 1105	Feeder	New	\$1,200	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2024	8/1/2022	8/1/2022	8	0.04722	4.17%	3872	183	1274	1136	3.6	MW	3.6	MW	1	\$39		\$0-\$50	
DDOR1030_GNA_2524601_Capacity	GNA_2524601_Capacity	DDOR1030	Famoso Bank 1	Bank and Feeder	New	\$12,480	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	33095	1563	CC	CC	CC	MW	CC	MW	2	\$93			
DDOR1030_GNA_252461103_Capac	GNA_252461103_Capacity	DDOR1030	Famoso Bank 1	Bank and Feeder	New	\$12,480	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	33095	1563	CC	CC	CC	MW	CC	MW	2	\$93		\$50-\$100	
DDOR1031_GNA_252901110_Capac	GNA_252901110_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder	New	\$24,179	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	64118	3027	18812	15712	2.9	MW	2.9	MW	9	\$51			
DDOR1031_GNA_2545401_Capacity	GNA_2545401_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder	New	\$24,179	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	64118	3027	CC	CC	CC	MW	CC	MW	9	\$51			
DDOR1031_GNA_254541103_Capac	GNA_254541103_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder	New	\$24,179	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	64118	3027	CC	CC	CC	MW	CC	MW	9	\$51			
DDOR1031_GNA_2542001_Capacity	GNA_2542001_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder	New	\$24,179	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	64118	3027	CC	CC	CC	MW	CC	MW	9	\$51			
DDOR1031_GNA_254202104_Capac	GNA_254202104_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder	New	\$24,179	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	64118	3027	CC	CC	CC	MW	CC	MW	9	\$51			
DDOR1031_GNA_2529003_Capacity	GNA_2529003_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder	New	\$24,179	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	64118	3027	CC	CC	CC	MW	CC	MW	9	\$51			
DDOR1031_GNA_252901108_Capac	GNA_252901108_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder	New	\$24,179	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	64118	3027	CC	CC	CC	MW	CC	MW	9	\$51			
DDOR1031_GNA_2529601_Capacity	GNA_2529601_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder	New	\$24,179	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	64118	3027	CC	CC	CC	MW	CC	MW	9	\$51			
DDOR1031_GNA_252961102_Capac	GNA_252961102_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder	New	\$24,179	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	64118	3027	CC	CC	CC	MW	CC	MW	9	\$51		\$50-\$100	
DDOR1032_GNA_2553201_Capacity	GNA_2553201_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder	New	\$35,547	Capacity	247.8%	6.77%	2.5%	2.5%	46	5/1/2025	8/1/2022	8/1/2022	7	0.04722	4.17%	94264	4451	CC	CC	CC	MW	CC	MW					



Unique ID	GNA ID	DDOR ID	Project Name	Project Type	New or Existing Equipment	Project Cost (\$)	Distribution Service Required	Revenue Requirement Multiplier	Discount Rate (%/yr)	Equipment Inflation	O&M Inflation	Book Life (Year)	DER Install Year	Cost year basis	Analysis Year	Years (10-Year Period)	Real Economic Carrying Cost (RECC)	Discount rate net or project inflation (5/yr)	Revenue Requirement (RR) Install Yr \$'s	RR * RECC	Value of Deferral Benefits (\$000s) in Install Year (Capital + O&M)	Value of Deferral Benefit (\$000s) in 2022	Grid Need (MW/Vpu/MVA R)	Units	Sum of Needs per project (MW/Vpu/MVA R)	Units	Number of Needs solved by project	Estimated LNBA Value (\$/kW-yr)	Estimated LNBA Value (\$/Vpu-yr)	LNBA Value Range (\$/kW-yr)	LNBA Value Range (\$/Vpu-yr)
DDOR1054_GNA_2538001_Capacity	GNA_2538001_Capacity	DDOR1054	Arvin 1101	Line Section	New	\$30	Capacity	309.1%	6.77%	2.5%	2.5%	46	4/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	92	4	CC	CC	CC	MW	CC	MW	1	\$1		\$0-\$50	
DDOR1055_GNA_252821102_Capac	GNA_252821102_Capacity	DDOR1055	Old River 1102	Line Section	Existing	\$2,231	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	3342	158	1213	1149	0.4	MW	CC	MW	1	\$336		\$200-\$500	
DDOR1056_GNA_2539101_Capacity	GNA_2539101_Capacity	DDOR1056	Lamont 1102	Line Section	New	\$90	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	284	13	CC	CC	CC	MW	CC	MW	1	\$7		\$0-\$50	
DDOR1057_GNA_252971106_Capac	GNA_252971106_Capacity	DDOR1057	Weedpatch 1106	Line Section	Existing	\$982	Capacity	146.8%	6.77%	2.5%	2.5%	46	12/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	1490	70	541	495	0.5	MW	CC	MW	1	\$108		\$100-\$200	
DDOR1058_GNA_2528602_Capacity	GNA_2528602_Capacity	DDOR1058	7th Standard 2102	Line Section	New	\$206	Capacity	309.1%	6.77%	2.5%	2.5%	46	3/31/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	647	31	CC	CC	CC	MW	CC	MW	2	\$4			
DDOR1058_GNA_255262105_Capac	GNA_255262105_Capacity	DDOR1058	7th Standard 2102	Line Section	New	\$206	Capacity	309.1%	6.77%	2.5%	2.5%	46	3/31/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	647	31	235	225	0.2	MW	CC	MW	2	\$4		\$0-\$50	
DDOR1059_GNA_253651103_Capac	GNA_253651103_Capacity	DDOR1059	Shafter 1103	Line Section	New	\$30	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	95	4	CC	CC	CC	MW	CC	MW	1	\$4		\$0-\$50	
DDOR1060_GNA_255451102_Capac	GNA_255451102_Capacity	DDOR1060	Cal Water 1102	Line Section	New	\$2,812	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	8655	409	3424	3462	1.4	MW	CC	MW	1	\$246		\$200-\$500	
DDOR1061_GNA_252772108_Capac	GNA_252772108_Capacity	DDOR1061	Magunden 2108	Line Section	New	\$210	Capacity	309.1%	6.77%	2.5%	2.5%	46	12/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	671	32	243	223	1.6	MW	CC	MW	1	\$16		\$0-\$50	
DDOR1063_GNA_253181102_Capac	GNA_253181102_Capacity	DDOR1063	Mc Farland 1102	Line Section	Existing	\$995	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	1490	70	CC	CC	CC	MW	CC	MW	1	\$61		\$50-\$100	
DDOR1065_GNA_253551102_Capac	GNA_253551102_Capacity	DDOR1065	Smyrna 1102	Line Section	Existing	\$64	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	96	5	CC	CC	CC	MW	CC	MW	1	\$9		\$0-\$50	
DDOR1067_GNA_1027001_Capacity	GNA_1027001_Capacity	DDOR1067	Glenn 1101	Line Section	Existing	\$2,780	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	10	0.04722	4.17%	4055	191	1604	1631	1.5	MW	CC	MW	1	\$109		\$100-\$200	
DDOR1068_GNA_022691106_Capac	GNA_022691106_Capacity	DDOR1068	Millbrae 1106	Line Section	Existing	\$208	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	304	14	120	122	0.3	MW	CC	MW	1	\$42		\$0-\$50	
DDOR1069_GNA_024261105_Capac	GNA_024261105_Capacity	DDOR1069	Briar 1101	Feeder	Existing	\$873	Capacity	146.8%	6.77%	2.5%	2.5%	46	5/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	1273	60	CC	CC	CC	MW	CC	MW	1	\$8		\$0-\$50	
DDOR1070_GNA_0241604_Capacity	GNA_0241604_Capacity	DDOR1070	Redwood City 1102	Line Section	New	\$452	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	1391	66	550	556	1.1	MW	CC	MW	1	\$50		\$50-\$100	
DDOR1071_GNA_062462226_Capac	GNA_062462226_Capacity	DDOR1071	Grand Island 2226	Line Section	Existing	\$1,530	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	2236	106	885	895	3.5	MW	CC	MW	1	\$26		\$0-\$50	
DDOR1072_GNA_063601109_Capac	GNA_063601109_Capacity	DDOR1072	Peabody 2106	Line Section	Existing	\$226	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	331	16	131	132	1.2	MW	CC	MW	1	\$11		\$0-\$50	
DDOR1073_GNA_063621109_Capac	GNA_063621109_Capacity	DDOR1073	Deepwater 1110	Feeder	New	\$5,392	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	16594	784	6565	6638	1.8	MW	CC	MW	4	\$40			
DDOR1073_GNA_0631301_Capacity	GNA_0631301_Capacity	DDOR1073	Deepwater 1110	Feeder	New	\$5,392	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	16594	784	CC	CC	CC	MW	CC	MW	4	\$40			
DDOR1073_GNA_063131106_Capac	GNA_063131106_Capacity	DDOR1073	Deepwater 1110	Feeder	New	\$5,392	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	16594	784	CC	CC	CC	MW	CC	MW	4	\$40			
DDOR1073_GNA_063131110_Capac	GNA_063131110_Capacity	DDOR1073	Deepwater 1110	Feeder	New	\$5,392	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	16594	784	6565	6638	7.7	MW	CC	MW	4	\$40		\$0-\$50	
DDOR1074_GNA_022011109_Capac	GNA_022011109_Capacity	DDOR1074	Mission X 1113	Line Section	Existing	\$2,052	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	2999	142	CC	CC	CC	MW	CC	MW	2	\$40			
DDOR1074_GNA_022011113_Capac	GNA_022011113_Capacity	DDOR1074	Mission X 1113	Line Section	Existing	\$2,052	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	2999	142	1187	1200	2.6	MW	CC	MW	2	\$40		\$0-\$50	
DDOR1075_GNA_0833902_Capacity	GNA_0833902_Capacity	DDOR1075	Swift 2102	Line Section	New	\$128	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	404	19	147	139	5.5	MW	CC	MW	2	\$2			
DDOR1075_GNA_083392108_Capac	GNA_083392108_Capacity	DDOR1075	Swift 2102	Line Section	New	\$128	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	404	19	147	139	1.6	MW	CC	MW	2	\$2		\$0-\$50	
DDOR1076_GNA_0828303_Capacity	GNA_0828303_Capacity	DDOR1076	Montague 2106	Line Section	New	\$1,220	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	3755	177	CC	CC	CC	MW	CC	MW	2	\$12			
DDOR1076_GNA_082832112_Capac	GNA_082832112_Capacity	DDOR1076	Montague 2106	Line Section	New	\$1,220	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	3755	177	CC	CC	CC	MW	CC	MW	2	\$12		\$0-\$50	
DDOR1077_GNA_083182103_Capac	GNA_083182103_Capacity	DDOR1077	Llagas 2102	Line Section	New	\$914	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	2813	133	1113	1125	2.1	MW	CC	MW	2	\$8			
DDOR1077_GNA_0831803_Capacity	GNA_0831803_Capacity	DDOR1077	Llagas 2102	Line Section	New	\$914	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	2813	133	1113	1125	11.4	MW	CC	MW	2	\$8		\$0-\$50	
DDOR1078_GNA_082921107_Capac	GNA_082921107_Capacity	DDOR1078	El Patio 1107	Line Section	Existing	\$190	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	278	13	110	111	0.9	MW	CC	MW	1	\$12		\$0-\$50	
DDOR1079_GNA_043501102_Capac	GNA_043501102_Capacity	DDOR1079	Windsor 1102	Line Section	Existing	\$960	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	1438	68	522	494	1.2	MW	CC	MW	1	\$46		\$0-\$50	
DDOR1080_GNA_042151105_Capac	GNA_042151105_Capacity	DDOR1080	Santa Rosa A 1105	Line Section	Existing	\$768	Capacity	146.8%	6.77%	2.5%	2.5%	46	4/3/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	1146	54	CC	CC	CC	MW	CC	MW	1	\$26		\$0-\$50	
DDOR1081_GNA_042151111_Capac	GNA_042151111_Capacity	DDOR1081	Santa Rosa 1107	Line Section	Existing	\$704	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	1029	49	407	412	0.9	MW	CC	MW	1	\$44		\$0-\$50	
DDOR1082_GNA_163091104_Capac	GNA_163091104_Capacity	DDOR1082	Carbona 1105	Feeder	New	\$2,806	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	8618	407	CC	CC	CC	MW	CC	MW	1	\$55		\$50-\$100	
DDOR1083_GNA_2541001_Capacity	GNA_2541001_Capacity	DDOR1083	Chowchilla 1105	Line Section	New	\$1,505	Capacity	309.1%	6.77%	2.5%	2.5%	46	5/31/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	4748	224	CC	CC	CC	MW	CC	MW	1	\$82		\$50-\$100	
DDOR1084_GNA_2524501_Capacity	GNA_2524501_Capacity	DDOR1084	El Nido 1104	Line Section	Existing	\$3,769	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	5647	267	CC	CC	CC	MW	CC	MW	1	\$51		\$50-\$100	
DDOR1085_GNA_252761119_Capac	GNA_252761119_Capacity	DDOR1085	Madera 1117	Feeder	New	\$1,764	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	5565	263	2020	1913	4.2	MW	CC	MW	1	\$51		\$50-\$100	
DDOR1086_GNA_254611104_Capac	GNA_254611104_Capacity	DDOR1086	Bonita 1102	Line Section	Existing	\$506	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	740	35	293	296	4.9	MW	CC	MW	1	\$6		\$0-\$50	
DDOR1089_GNA_2523102_Capacity	GNA_2523102_Capacity	DDOR1089	Mendota 1101	Line Section	New	\$30	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	92	4	CC	CC	CC	MW	CC	MW	1	\$1		\$0-\$50	
DDOR1090_GNA_254272108_Capac	GNA_254272108_Capacity	DDOR1090	Cassidy 2108	Bank	New	\$5,571	Capacity	186.5%	6.77%	2.5%	2.5%	46	10/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	10432	493	4128	4083	3.2	MW	CC	MW	1	\$129		\$100-\$200	
DDOR1091_GNA_163481102_Capac	GNA_163481102_Capacity	DDOR1091	Weber 1102	Feeder	New	\$1,892,400	Capacity	309.1%	6.77%	2.5%	2.5%	46	7/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	5836407												

Unique ID	GNA ID	DDOR ID	Project Name	Project Type	New or Existing Equipment	Project Cost (\$)	Distribution Service Required	Revenue Requirement Multiplier	Discount Rate (%/yr)	Equipment Inflation	O&M Inflation	Book Life (Year)	DER Install Year	Cost year basis	Analysis Year	Years (10- Year Period)	Real Economic Carrying Cost (RECC)	Discount rate net or project inflation (5/yr)	Revenue Requirement (RR) Install Yr \$'s	RR * RECC	Value of Deferral Benefits (\$000s) in Install Year (Capital + O&M)	Value of Deferral Benefit (\$000s) in 2022	Grid Need (MW/Vpu/MVA R)	Units	Sum of Needs per project (MW/Vpu/MVA R)	Units	Number of Needs solved by project	Estimated LNBA Value (\$/kW-yr)	Estimated LNBA Value (\$/Vpu-yr)	LNBA Value Range (\$/kW-yr)	LNBA Value Range (\$/Vpu-yr)
DDOR150_GNA_083481111_Capacity	GNA_083481111_Capacity	DDOR150	Stelling 1105	Line Section	New	\$4,368	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	13780	651	5001	4736	4.3	MW	4.3	MW	2	\$54		\$50-\$100	
DDOR151_GNA_2545302_Capacity	GNA_2545302_Capacity	DDOR151	Wahloke Bank 1107	Line Section	New	\$412	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	1300	61	CC	CC	CC	MW	CC	MW	2	\$10			
DDOR151_GNA_254531107_Capacity	GNA_254531107_Capacity	DDOR151	Wahloke Bank 1107	Line Section	New	\$412	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	1300	61	472	447	1.0	MW	1.0	MW	2	\$10		\$0-\$50	
DDOR155_GNA_0240202_Capacity	GNA_0240202_Capacity	DDOR155	Glenwood 1101	Line Section	New	\$1,150	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	3540	167	CC	CC	CC	MW	CC	MW	1	\$99		\$50-\$100	
DDOR156_GNA_0434101_Capacity	GNA_0434101_Capacity	DDOR156	Calpella 1101	Feeder	Existing	\$4,858	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	7101	335	CC	CC	CC	MW	CC	MW	1	\$101		\$100-\$200	
DDOR158_GNA_0421401_Capacity	GNA_0421401_Capacity	DDOR158	Clear Lake 1101	Line Section	Existing	\$4,568	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	6677	315	2642	2671	0.6	MW	0.6	MW	1	\$431		\$200-\$500	
DDOR160_GNA_103331101_Capacity	GNA_103331101_Capacity	DDOR160	Corning 1101	Line Section	Existing	\$56	Capacity	146.8%	6.77%	2.5%	2.5%	46	5/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	81	4	32	33	2.2	MW	2.2	MW	1	\$1		\$0-\$50	
DDOR161_GNA_1033302_Capacity	GNA_1033302_Capacity	DDOR161	Corning 1103	Line Section	Existing	\$790	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	1155	55	CC	CC	CC	MW	CC	MW	1	\$31		\$0-\$50	
DDOR165_GNA_022571106_Reliability	GNA_022571106_Reliability	DDOR165	East Grand 1106	Line Section	New	\$130	Reliability	309.1%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	409	19	CC	CC	CC	MW	CC	MW	1	\$3		\$0-\$50	
DDOR168_GNA_1021701_Capacity	GNA_1021701_Capacity	DDOR168	Esquon Bank 1	Line Section	Existing	\$220	Capacity	146.8%	6.77%	2.5%	2.5%	46	4/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	320	15	CC	CC	CC	MW	CC	MW	1	\$25		\$0-\$50	
DDOR173_GNA_163741103_Capacity	GNA_163741103_Capacity	DDOR173	HERDLYN 1103	Line Section	Existing	\$1,166	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	1704	80	674	682	1.1	MW	1.1	MW	1	\$63		\$50-\$100	
DDOR178_GNA_0226903_Capacity	GNA_0226903_Capacity	DDOR178	Millbrae 1105	Line Section	New	\$1,998	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	6150	290	CC	CC	CC	MW	CC	MW	1	\$31		\$0-\$50	
DDOR181_GNA_254461111_Capacity	GNA_254461111_Capacity	DDOR181	Newhall 1111	Line Section	Existing	\$1,417	Capacity	146.8%	6.77%	2.5%	2.5%	46	3/31/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	2063	97	CC	CC	CC	MW	CC	MW	1	\$107		\$100-\$200	
DDOR183_GNA_0422102_Capacity	GNA_0422102_Capacity	DDOR183	Las Gallinas A 1106 line work	Line Section	Existing	\$596	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	871	41	345	348	2.1	MW	2.1	MW	1	\$16		\$0-\$50	
DDOR184_GNA_152901103_Capacity	GNA_152901103_Capacity	DDOR184	Marysville 1105	Line Section	New	\$508	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	8	0.04722	4.17%	1643	78	540	479	1.7	MW	1.7	MW	1	\$36		\$0-\$50	
DDOR185_GNA_255371118_Capacity	GNA_255371118_Capacity	DDOR185	Oro Loma 1118	Line Section	Existing	\$7,568	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	11062	522	CC	CC	CC	MW	CC	MW	1	\$63		\$50-\$100	
DDOR193_GNA_042151111_Reliability	GNA_042151111_Reliability	DDOR193	Santa Rosa 1111	Feeder	Existing	\$312	Reliability	146.8%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	466	22	169	161	0.7	MW	0.7	MW	1	\$26		\$0-\$50	
DDOR195_GNA_2540703_Capacity	GNA_2540703_Capacity	DDOR195	Stockdale 2112	Line Section	Existing	\$410	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	599	28	237	240	1.0	MW	1.0	MW	1	\$24		\$0-\$50	
DDOR196_GNA_2545601_Capacity	GNA_2545601_Capacity	DDOR196	Tupman Bank 1	Line Section	Existing	\$152	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	222	10	88	89	10.2	MW	10.2	MW	1	\$1		\$0-\$50	
DDOR202_GNA_0240401_Capacity	GNA_0240401_Capacity	DDOR202	Beresford 401	Feeder	Existing	\$45,017	Capacity	146.8%	6.77%	2.5%	2.5%	46	4/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	67166	3171	CC	CC	CC	MW	CC	MW	1	\$7,627		>\$500	
DDOR203_GNA_1824601_Capacity	GNA_1824601_Capacity	DDOR203	Salinas 1104	Line Section	Existing	\$880	Capacity	146.8%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	1316	62	CC	CC	CC	MW	CC	MW	1	\$28		\$0-\$50	
DDOR204_GNA_252301102_Capacity	GNA_252301102_Capacity	DDOR204	Camden 1102	Feeder	New	\$253	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	779	37	308	311	2.4	MW	2.4	MW	1	\$13		\$0-\$50	
DDOR209_GNA_013681111_Capacity	GNA_013681111_Capacity	DDOR209	EDES 1111	Feeder	Existing	\$836	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	1222	58	483	489	2.6	MW	2.6	MW	1	\$19		\$0-\$50	
DDOR213_GNA_2527001_Capacity	GNA_2527001_Capacity	DDOR213	Kerman 1102	Line Section	New	\$30	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	92	4	CC	CC	CC	MW	CC	MW	1	\$1		\$0-\$50	
DDOR214_GNA_252721103_Capacity	GNA_252721103_Capacity	DDOR214	Kern Oil 1103	Feeder	New	\$479	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	1512	71	CC	CC	CC	MW	CC	MW	1	\$28		\$0-\$50	
DDOR215_GNA_252721110_Capacity	GNA_252721110_Capacity	DDOR215	Kern Oil 1108	Feeder	Existing	\$1,420	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	2128	100	CC	CC	CC	MW	CC	MW	2	\$24			
DDOR215_GNA_252721108_Capacity	GNA_252721108_Capacity	DDOR215	Kern Oil 1108	Feeder	Existing	\$1,420	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	2128	100	CC	CC	CC	MW	CC	MW	2	\$24		\$0-\$50	
DDOR216_GNA_252721116_Capacity	GNA_252721116_Capacity	DDOR216	Kern Oil 1116	Feeder	Existing	\$64	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	96	5	35	33	1.3	MW	1.3	MW	1	\$3		\$0-\$50	
DDOR217_GNA_252241116_Reliability	GNA_252241116_Reliability	DDOR217	Kingsburg 1117	Feeder	Existing	\$640	Reliability	146.8%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	957	45	347	331	1.3	MW	3.1	MW	2	\$0			
DDOR217_GNA_252241116_Capacity	GNA_252241116_Capacity	DDOR217	Kingsburg 1117	Feeder	Existing	\$640	Capacity	146.8%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	957	45	347	331	1.8	MW	3.1	MW	2	\$12		\$0-\$50	
DDOR221_GNA_012091110_Capacity	GNA_012091110_Capacity	DDOR221	Oakland J 1114 Circuit Extension	Feeder	New	\$3,582	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	11025	521	CC	CC	CC	MW	CC	MW	1	\$0		\$0-\$50	
DDOR224_GNA_255371106_Capacity	GNA_255371106_Capacity	DDOR224	ORO LOMA 1106 Reconducto	Line Section	Existing	\$3,002	Capacity	146.8%	6.77%	2.5%	2.5%	46	5/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	4488	212	CC	CC	CC	MW	CC	MW	1	\$69		\$50-\$100	
DDOR228_GNA_252341106_Capacity	GNA_252341106_Capacity	DDOR228	Reedley 1106	Feeder	New	\$111	Capacity	309.1%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	349	16	CC	CC	CC	MW	CC	MW	1	\$6		\$0-\$50	
DDOR229_GNA_252861104_Capacity	GNA_252861104_Capacity	DDOR229	Rio Bravo 1104	Feeder	Existing	\$602	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	880	42	CC	CC	CC	MW	CC	MW	1	\$0		\$0-\$50	
DDOR230_GNA_252891114_Capacity	GNA_252891114_Capacity	DDOR230	Schindler 1114	Feeder	Existing	\$390	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	585	28	212	201	3.2	MW	3.2	MW	1	\$7		\$0-\$50	
DDOR231_GNA_252062112_Capacity	GNA_252062112_Capacity	DDOR231	Shepherd 2112	Feeder	New	\$45,018	Capacity	309.1%	6.77%	2.5%	2.5%	46	4/2/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	141447	6678	CC	CC	CC	MW	CC	MW	1	\$5,250		>\$500	
DDOR234_GNA_162881106_Capacity	GNA_162881106_Capacity	DDOR234	Tracy 1106	Line Section	Existing	\$44,676	Capacity	146.8%	6.77%	2.5%	2.5%	46	4/25/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	65138	3076	CC	CC	CC	MW	CC	MW	1	\$5,143		>\$500	
DDOR236_GNA_253731110_Capacity	GNA_253731110_Capacity	DDOR236	West Fresno 1110	Feeder	Existing	\$169	Capacity	146.8%	6.77%	2.5%	2.5%	46	6/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	247	12	CC	CC	CC	MW	CC	MW	1	\$10		\$0-\$50	
DDOR239_GNA_103251101_Capacity	GNA_103251101_Capacity	DDOR239	Tres Vias 900	Line Section	Existing	\$44,652	Capacity	146.8%	6.77%	2.5%	2.5%	46	4/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	64997	3069	25716	26284	0.6	MW	0.6	MW	1	\$4,381		>\$500	
DDOR240_GNA_022011113_Resiliency	GNA_022011113_Resiliency	DDOR240	Mission (SF X) 1113	Feeder	Existing	\$1,400	Resiliency	146.8%	6.77%	2.5%	2.5%	46	10/1/2023	8/1/2022	8/1/2022	9	0.04722	4.17%	2115	100	768	711	1.4	MW	1.4	MW	1	\$58		\$50-\$100	
DDOR242_GNA_042011108_Resiliency	GNA_042011108_Resiliency	DDOR242	San Rafael 1108	Line Section	Existing	\$1,686	Resiliency	146.8%	6.77%	2.5%	2.5%	46	10/1/2022	8/1/2022	8/1/2022	10	0.04722	4.17%	2485	117	983	972	0.4								



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					General	Substation Equipment (\$000)	Primary Feeder/Line section (\$000)	New or Existing Equipment							
DDOR001_GNA_0820201_Capacity	GNA_0820201_Capacity	DDOR001	Vasona 1106	Feeder		N/A	\$5,105	New	5/1/2022			10	Capacity	1.3	MW
DDOR001_GNA_0820202_Capacity	GNA_0820202_Capacity	DDOR001	Vasona 1106	Feeder		N/A	\$5,105	New	5/1/2022			10	Capacity	2.9	MW
DDOR001_GNA_0837701_Capacity	GNA_0837701_Capacity	DDOR001	Vasona 1106	Feeder		N/A	\$5,105	New	5/1/2022			10	Capacity	CC	MW
DDOR001_GNA_083771102_Capacity	GNA_083771102_Capacity	DDOR001	Vasona 1106	Feeder		N/A	\$5,105	New	5/1/2022			10	Capacity	1.2	MW
DDOR001_GNA_083771103_Capacity	GNA_083771103_Capacity	DDOR001	Vasona 1106	Feeder		N/A	\$5,105	New	5/1/2022			10	Capacity	0.8	MW
DDOR002_GNA_0829502_Capacity	GNA_0829502_Capacity	DDOR002	Santa Teresa Sub - new bank	Bank and Feeder		\$15,644	N/A	New	2/2/2022			10	Capacity	CC	MW
DDOR002_GNA_082952107_Capacity	GNA_082952107_Capacity	DDOR002	Santa Teresa Sub - new bank	Bank and Feeder		\$15,644	N/A	New	2/2/2022			10	Capacity	CC	MW
DDOR002_GNA_0829504_Capacity	GNA_0829504_Capacity	DDOR002	Santa Teresa Sub - new bank	Bank and Feeder		\$15,644	N/A	New	2/2/2022			10	Capacity	CC	MW
DDOR002_GNA_082952111_Capacity	GNA_082952111_Capacity	DDOR002	Santa Teresa Sub - new bank	Bank and Feeder		\$15,644	N/A	New	2/2/2022			10	Capacity	CC	MW
DDOR002_GNA_082952112_Capacity	GNA_082952112_Capacity	DDOR002	Santa Teresa Sub - new bank	Bank and Feeder		\$15,644	N/A	New	2/2/2022			10	Capacity	CC	MW
DDOR004_GNA_014592112_Capacity	GNA_014592112_Capacity	DDOR004	Brentwood 2104	Feeder		N/A	\$5,635	New	5/1/2022			10	Capacity	2.3	MW
DDOR004_GNA_014592112_Reliability	GNA_014592112_Reliability	DDOR004	Brentwood 2104	Feeder		N/A	\$5,635	New	5/1/2022			10	Reliability	6.0	MW
DDOR007_GNA_0834302_Capacity	GNA_0834302_Capacity	DDOR007	Almaden 1112	Feeder		N/A	\$1,653	New	12/30/2022			10	Capacity	3.0	MW
DDOR007_GNA_083431110_Capacity	GNA_083431110_Capacity	DDOR007	Almaden 1112	Feeder		N/A	\$1,653	New	12/30/2022			10	Capacity	1.2	MW
DDOR009_GNA_0138005_Reliability	GNA_0138005_Reliability	DDOR009	ROSSMOOR 1109	Feeder		N/A	\$16,988	New	12/1/2023			11	Reliability	CC	MW
DDOR010_GNA_254091102_Capacity	GNA_254091102_Capacity	DDOR010	Dinuba 1103	Feeder		N/A	\$1,258	New	6/1/2023			9	Capacity	0.7	MW
DDOR010_GNA_254091104_Capacity	GNA_254091104_Capacity	DDOR010	Dinuba 1103	Feeder		N/A	\$1,258	New	6/1/2023			9	Capacity	2.6	MW
DDOR010_GNA_254091105_Capacity	GNA_254091105_Capacity	DDOR010	Dinuba 1103	Feeder		N/A	\$1,258	New	6/1/2023			9	Capacity	2.5	MW
DDOR012_GNA_012232109_Capacity	GNA_012232109_Capacity	DDOR012	Newark 2111	Feeder		N/A	\$3,180	New	1/10/2022			10	Capacity	CC	MW
DDOR012_GNA_0122322_Capacity	GNA_0122322_Capacity	DDOR012	Newark 2111	Feeder		N/A	\$3,180	New	1/10/2022			10	Capacity	CC	MW
DDOR013_GNA_022571113_Capacity	GNA_022571113_Capacity	DDOR013	East Grand 1116	Feeder		N/A	\$3,236	New	2/1/2022			10	Capacity	CC	MW
DDOR013_GNA_0225705_Capacity	GNA_0225705_Capacity	DDOR013	East Grand 1116	Feeder		N/A	\$3,236	New	2/1/2022			10	Capacity	CC	MW
DDOR013_GNA_022571109_Capacity	GNA_022571109_Capacity	DDOR013	East Grand 1116	Feeder		N/A	\$3,236	New	2/1/2022			10	Capacity	CC	MW
DDOR013_GNA_0225704_Capacity	GNA_0225704_Capacity	DDOR013	East Grand 1116	Feeder		N/A	\$3,236	New	2/1/2022			10	Capacity	CC	MW
DDOR013_GNA_022571107_Capacity	GNA_022571107_Capacity	DDOR013	East Grand 1116	Feeder		N/A	\$3,236	New	2/1/2022			10	Capacity	CC	MW
DDOR014_GNA_022011125_Capacity	GNA_022011125_Capacity	DDOR014	Mission X 1113 Reinforcement	Line Section		N/A	\$4,375	Existing	6/1/2022			10	Capacity	CC	MW
DDOR015_GNA_022031108_Capacity	GNA_022031108_Capacity	DDOR015	Potrero A 1108	Feeder		N/A	\$2,925	Existing	6/1/2022			10	Capacity	15.0	MW
DDOR016_GNA_022011120_Capacity	GNA_022011120_Capacity	DDOR016	MISSION (SF X) 1120	Feeder		N/A	\$3,725	Existing	6/1/2022			10	Capacity	CC	MW
DDOR017_GNA_013501112_Resiliency	GNA_013501112_Resiliency	DDOR017	Jarvis Bank 2	Bank and Feeder		\$10,854	N/A	Existing	7/31/2022			10	Resiliency	1.4	MW
DDOR017_GNA_013501105_Resiliency	GNA_013501105_Resiliency	DDOR017	Jarvis Bank 2	Bank and Feeder		\$10,854	N/A	Existing	7/31/2022			10	Resiliency	0.1	MW
DDOR017_GNA_013501111_Resiliency	GNA_013501111_Resiliency	DDOR017	Jarvis Bank 2	Bank and Feeder		\$10,854	N/A	Existing	7/31/2022			10	Resiliency	CC	MW
DDOR018_GNA_1627701_Capacity	GNA_1627701_Capacity	DDOR018	Lammers 1108	Feeder		N/A	\$3,231	New	12/1/2022			10	Capacity	CC	MW
DDOR018_GNA_162771101_Capacity	GNA_162771101_Capacity	DDOR018	Lammers 1108	Feeder		N/A	\$3,231	New	12/1/2022			10	Capacity	CC	MW
DDOR018_GNA_162771102_Capacity	GNA_162771102_Capacity	DDOR018	Lammers 1108	Feeder		N/A	\$3,231	New	12/1/2022			10	Capacity	2.0	MW
DDOR018_GNA_162771106_Capacity	GNA_162771106_Capacity	DDOR018	Lammers 1108	Feeder		N/A	\$3,231	New	12/1/2022			10	Capacity	2.6	MW
DDOR019_GNA_022031113_Capacity	GNA_022031113_Capacity	DDOR019	Potrero A 1113	Feeder		N/A	\$5,925	Existing	6/1/2022			10	Capacity	CC	MW
DDOR020_GNA_022031119_Capacity	GNA_022031119_Capacity	DDOR020	Potrero A 1119	Feeder		N/A	\$2,925	Existing	6/1/2022			10	Capacity	0.9	MW
DDOR021_GNA_022011102_Capacity	GNA_022011102_Capacity	DDOR021	Mission X 1101	Feeder		N/A	\$3,225	Existing	6/1/2022			10	Capacity	CC	MW
DDOR023_GNA_1823501_Capacity	GNA_1823501_Capacity	DDOR023	Dolan Bank	Bank		\$8,352	N/A	New	10/31/2022			10	Capacity	4.7	MW
DDOR025_GNA_162301101_Reliability	GNA_162301101_Reliability	DDOR025	Valley Springs 1102	Feeder		N/A	\$1,873	New	6/1/2022			10	Reliability	5.2	MW
DDOR026_GNA_163481113_Capacity	GNA_163481113_Capacity	DDOR026	Weber 1115	Feeder		N/A	\$2,000	New	4/1/2022			10	Capacity	CC	MW
DDOR026_GNA_163481108_Capacity	GNA_163481108_Capacity	DDOR026	Weber 1115	Feeder		N/A	\$2,000	New	4/1/2022			10	Capacity	CC	MW
DDOR027_GNA_252451104_Capacity	GNA_252451104_Capacity	DDOR027	El Nido Bank 1 Feeder	Feeder		N/A	\$6,812	New	12/31/2022			10	Capacity	1.4	MW
DDOR029_GNA_2524201_Capacity	GNA_2524201_Capacity	DDOR029	Dairyland 1110	Feeder		N/A	\$3,643	New	4/1/2022			10	Capacity	CC	MW
DDOR029_GNA_252421109_Capacity	GNA_252421109_Capacity	DDOR029	Dairyland 1110	Feeder		N/A	\$3,643	New	4/1/2022			10	Capacity	CC	MW
DDOR029_GNA_252421113_Capacity	GNA_252421113_Capacity	DDOR029	Dairyland 1110	Feeder		N/A	\$3,643	New	4/1/2022			10	Capacity	0.4	MW
DDOR030_GNA_2523801_Capacity	GNA_2523801_Capacity	DDOR030	Calflax Bank 2	Bank and Feeder		\$11,623	N/A	Existing	5/1/2022			10	Capacity	CC	MW
DDOR030_GNA_252381107_Capacity	GNA_252381107_Capacity	DDOR030	Calflax Bank 2	Bank and Feeder		\$11,623	N/A	Existing	5/1/2022			10	Capacity	CC	MW

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					General	Substation Equipment (\$000)	Primary Feeder/Line section (\$000)	New or Existing Equipment							
DDOR030_GNA_2534401_Capacity	GNA_2534401_Capacity	DDOR030	Calflax Bank 2	Bank and Feeder		\$11,623	N/A	Existing	5/1/2022			10	Capacity	CC	MW
DDOR030_GNA_253441101_Capacity	GNA_253441101_Capacity	DDOR030	Calflax Bank 2	Bank and Feeder		\$11,623	N/A	Existing	5/1/2022			10	Capacity	CC	MW
DDOR031_GNA_2529301_Capacity	GNA_2529301_Capacity	DDOR031	Tejon 1107	Feeder		N/A	\$2,138	New	5/1/2022			10	Capacity	CC	MW
DDOR031_GNA_252931102_Capacity	GNA_252931102_Capacity	DDOR031	Tejon 1107	Feeder		N/A	\$2,138	New	5/1/2022			10	Capacity	CC	MW
DDOR032_GNA_0144702_Capacity	GNA_0144702_Capacity	DDOR032	Dumbarton Bank 2	Bank		\$5,022	N/A	Existing	5/1/2022			10	Capacity	CC	MW
DDOR033_GNA_0424601_Capacity	GNA_0424601_Capacity	DDOR033	Napa 1104	Feeder		N/A	\$350	New	5/1/2023			9	Capacity	CC	MW
DDOR033_GNA_042461106_Capacity	GNA_042461106_Capacity	DDOR033	Napa 1104	Feeder		N/A	\$350	New	5/1/2023			9	Capacity	0.3	MW
DDOR035_GNA_0433201_Capacity	GNA_0433201_Capacity	DDOR035	Rincon Bank 1	Bank and Feeder		\$10,271	N/A	Existing	5/1/2022			10	Capacity	3.2	MW
DDOR036_GNA_2540501_Capacity	GNA_2540501_Capacity	DDOR036	Santa Nella Bank 1	Bank and Feeder		\$8,339	N/A	Existing	5/1/2022			10	Capacity	CC	MW
DDOR036_GNA_2540502_Capacity	GNA_2540502_Capacity	DDOR036	Santa Nella Bank 1	Bank and Feeder		\$8,339	N/A	Existing	5/1/2022			10	Capacity	CC	MW
DDOR036_GNA_254051104_Capacity	GNA_254051104_Capacity	DDOR036	Santa Nella Bank 1	Bank and Feeder		\$8,339	N/A	Existing	5/1/2022			10	Capacity	CC	MW
DDOR038_GNA_013501105_Capacity	GNA_013501105_Capacity	DDOR038	Jarvis 1102	Feeder		N/A	\$4,170	New	6/1/2022			10	Capacity	0.0	MW
DDOR039_GNA_0432901_Resiliency	GNA_0432901_Resiliency	DDOR039	Pueblo Bank 3	Bank and Feeder		\$8,832	N/A	New	6/1/2022			10	Resiliency	14.9	MW
DDOR039_GNA_0432901_Capacity	GNA_0432901_Capacity	DDOR039	Pueblo Bank 3	Bank and Feeder		\$8,832	N/A	New	6/1/2022			10	Capacity	2.2	MW
DDOR039_GNA_043292103_Capacity	GNA_043292103_Capacity	DDOR039	Pueblo Bank 3	Bank and Feeder		\$8,832	N/A	New	6/1/2022			10	Capacity	2.8	MW
DDOR040_GNA_022031115_Capacity	GNA_022031115_Capacity	DDOR040	Mission (SF X) 1129	Feeder		N/A	\$21,689	New	6/1/2022			10	Capacity	9.1	MW
DDOR041_GNA_022031108_Capacity	GNA_022031108_Capacity	DDOR041	Potrero A 1120	Feeder		N/A	\$11,066	New	6/1/2022			10	Capacity	15.0	MW
DDOR042_GNA_0221001_Capacity	GNA_0221001_Capacity	DDOR042	Martin (SF H) 1117	Feeder		N/A	\$9,662	New	6/1/2022			10	Capacity	CC	MW
DDOR042_GNA_022101101_Capacity	GNA_022101101_Capacity	DDOR042	Martin (SF H) 1117	Feeder		N/A	\$9,662	New	6/1/2022			10	Capacity	CC	MW
DDOR045_GNA_1634806_Capacity	GNA_1634806_Capacity	DDOR045	Weber 1106	Feeder		N/A	\$4,000	New	2/1/2023			9	Capacity	CC	MW
DDOR045_GNA_163481110_Capacity	GNA_163481110_Capacity	DDOR045	Weber 1106	Feeder		N/A	\$4,000	New	2/1/2023			9	Capacity	20.3	MW
DDOR046_GNA_0132301_Capacity	GNA_0132301_Capacity	DDOR046	Lone Tree 2106	Feeder		N/A	\$3,655	New	4/1/2023			9	Capacity	4.4	MW
DDOR046_GNA_013232102_Capacity	GNA_013232102_Capacity	DDOR046	Lone Tree 2106	Feeder		N/A	\$3,655	New	4/1/2023			9	Capacity	9.9	MW
DDOR048_GNA_0430902_Capacity	GNA_0430902_Capacity	DDOR048	San Rafael 1111	Feeder		N/A	\$6,370	New	4/1/2023			9	Capacity	CC	MW
DDOR049_GNA_253481102_Capacity	GNA_253481102_Capacity	DDOR049	San Bernard Bank 2	Bank		\$7,800	N/A	New	4/1/2023			9	Capacity	CC	MW
DDOR049_GNA_252931103_Capacity	GNA_252931103_Capacity	DDOR049	San Bernard Bank 2	Bank		\$7,800	N/A	New	4/1/2023			9	Capacity	CC	MW
DDOR049_GNA_253191102_Capacity	GNA_253191102_Capacity	DDOR049	San Bernard Bank 2	Bank		\$7,800	N/A	New	4/1/2023			9	Capacity	CC	MW
DDOR050_GNA_083622106_Resiliency	GNA_083622106_Resiliency	DDOR050	Camp Evers 2107	Feeder		N/A	\$2,190	New	5/1/2023			9	Resiliency	0.9	MW
DDOR051_GNA_0241605_Capacity	GNA_0241605_Capacity	DDOR051	Bair 1106	Feeder		N/A	\$7,620	New	5/1/2023			9	Capacity	CC	MW
DDOR051_GNA_024161104_Capacity	GNA_024161104_Capacity	DDOR051	Bair 1106	Feeder		N/A	\$7,620	New	5/1/2023			9	Capacity	CC	MW
DDOR052_GNA_1822202_Capacity	GNA_1822202_Capacity	DDOR052	Monterey Bank 1	Bank and Feeder		\$23,662	N/A	New	5/1/2023			9	Capacity	CC	MW
DDOR052_GNA_182222104_Resiliency	GNA_182222104_Resiliency	DDOR052	Monterey Bank 1	Bank and Feeder		\$23,662	N/A	New	5/1/2023			9	Resiliency	1.3	MW
DDOR052_GNA_182222105_Resiliency	GNA_182222105_Resiliency	DDOR052	Monterey Bank 1	Bank and Feeder		\$23,662	N/A	New	5/1/2023			9	Resiliency	6.4	MW
DDOR053_GNA_1829501_Capacity	GNA_1829501_Capacity	DDOR053	San Luis Obispo 1106	Feeder		N/A	\$3,451	New	5/1/2023			9	Capacity	1.3	MW
DDOR053_GNA_182631102_Capacity	GNA_182631102_Capacity	DDOR053	San Luis Obispo 1106	Feeder		N/A	\$3,451	New	5/1/2023			9	Capacity	1.7	MW
DDOR053_GNA_182631108_Capacity	GNA_182631108_Capacity	DDOR053	San Luis Obispo 1106	Feeder		N/A	\$3,451	New	5/1/2023			9	Capacity	1.9	MW
DDOR054_GNA_0427101_Capacity	GNA_0427101_Capacity	DDOR054	Calistoga Bank 1	Bank		\$7,350	N/A	Existing	5/1/2023			9	Capacity	1.5	MW
DDOR054_GNA_042711102_Capacity	GNA_042711102_Capacity	DDOR054	Calistoga Bank 1	Bank		\$7,350	N/A	Existing	5/1/2023			9	Capacity	2.5	MW
DDOR055_GNA_042461105_Capacity	GNA_042461105_Capacity	DDOR055	Tulucay 1102	Feeder		N/A	\$4,400	New	5/1/2023			9	Capacity	CC	MW
DDOR055_GNA_042301101_Capacity	GNA_042301101_Capacity	DDOR055	Tulucay 1102	Feeder		N/A	\$4,400	New	5/1/2023			9	Capacity	CC	MW
DDOR056_GNA_2520901_Capacity	GNA_2520901_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder		\$12,800	N/A	New	5/1/2024			8	Capacity	CC	MW
DDOR056_GNA_252091101_Capacity	GNA_252091101_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder		\$12,800	N/A	New	5/1/2024			8	Capacity	CC	MW
DDOR056_GNA_252091104_Capacity	GNA_252091104_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder		\$12,800	N/A	New	5/1/2024			8	Capacity	CC	MW
DDOR056_GNA_252091106_Capacity	GNA_252091106_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder		\$12,800	N/A	New	5/1/2024			8	Capacity	1.0	MW
DDOR056_GNA_2520902_Capacity	GNA_2520902_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder		\$12,800	N/A	New	5/1/2024			8	Capacity	CC	MW

PG&E 2022 Distribution Deferral Opportunity Report (DDOR)  
Appendix E: LNBA - Planned Investments - Project Specific Inputs  
Version Date: 08/15/2022  
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Unique ID	GNA ID	DDOR ID	Project Name	Project Type	Capital Cost (2022 \$)				Need Year/In Service Date	Grid Need Energy (MWh/yr)	Peak Day Energy (MWh)	Deferral Years	Distribution Service Required	Grid Need (MW/Vpu/MVAR)	Units
					General	Substation Equipment (\$000)	Primary Feeder/Line section (\$000)	New or Existing Equipment							
DDOR056_GNA_2543101_Capacity	GNA_2543101_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder		\$12,800	N/A	New	5/1/2024			8	Capacity	2.9	MW
DDOR056_GNA_2546403_Capacity	GNA_2546403_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder		\$12,800	N/A	New	5/1/2024			8	Capacity	CC	MW
DDOR056_GNA_254641110_Capacity	GNA_254641110_Capacity	DDOR056	Ortiga New Bank & Feeder	Bank and Feeder		\$12,800	N/A	New	5/1/2024			8	Capacity	CC	MW
DDOR057_GNA_2529003_Capacity	GNA_2529003_Capacity	DDOR057	Semitropic 1108	Feeder		N/A	\$2,300	Existing	5/1/2022			10	Capacity	CC	MW
DDOR057_GNA_252901108_Capacity	GNA_252901108_Capacity	DDOR057	Semitropic 1108	Feeder		N/A	\$2,300	Existing	5/1/2022			10	Capacity	CC	MW
DDOR058_GNA_2534801_Capacity	GNA_2534801_Capacity	DDOR058	Wheeler Ridge Bank 1	Bank		\$2,500	N/A	Existing	5/1/2023			9	Capacity	CC	MW
DDOR059_GNA_254552102_Capacity	GNA_254552102_Capacity	DDOR059	Figarden 2114	Feeder		N/A	\$950	New	5/1/2023			9	Capacity	3.3	MW
DDOR060_GNA_1626108_Capacity	GNA_1626108_Capacity	DDOR060	VIERRA 1704	Feeder		N/A	\$1,900	New	5/1/2023			9	Capacity	6.0	MW
DDOR060_GNA_162611708_Capacity	GNA_162611708_Capacity	DDOR060	VIERRA 1704	Feeder		N/A	\$1,900	New	5/1/2023			9	Capacity	0.6	MW
DDOR060_GNA_1627002_Capacity	GNA_1627002_Capacity	DDOR060	VIERRA 1704	Feeder		N/A	\$1,900	New	5/1/2023			9	Capacity	8.8	MW
DDOR060_GNA_162701706_Capacity	GNA_162701706_Capacity	DDOR060	VIERRA 1704	Feeder		N/A	\$1,900	New	5/1/2023			9	Capacity	12.0	MW
DDOR061_GNA_153781105_Capacity	GNA_153781105_Capacity	DDOR061	Bogue 1108	Feeder		N/A	\$2,096	New	6/1/2023			9	Capacity	1.6	MW
DDOR061_GNA_153781106_Capacity	GNA_153781106_Capacity	DDOR061	Bogue 1108	Feeder		N/A	\$2,096	New	6/1/2023			9	Capacity	0.8	MW
DDOR061_GNA_153781105_Reliability	GNA_153781105_Reliability	DDOR061	Bogue 1108	Feeder		N/A	\$2,096	New	6/1/2023			9	Reliability	2.5	MW
DDOR062_GNA_0136803_Capacity	GNA_0136803_Capacity	DDOR062	Edes 1102	Feeder		N/A	\$2,420	New	6/1/2023			9	Capacity	CC	MW
DDOR063_GNA_0142601_Capacity	GNA_0142601_Capacity	DDOR063	San Pablo 1104	Feeder		N/A	\$5,420	New	6/1/2023			9	Capacity	2.2	MW
DDOR063_GNA_0143402_Capacity	GNA_0143402_Capacity	DDOR063	San Pablo 1104	Feeder		N/A	\$5,420	New	6/1/2023			9	Capacity	0.7	MW
DDOR064_GNA_1824903_Capacity	GNA_1824903_Capacity	DDOR064	Hollister Bank 2	Feeder		N/A	\$8,250	New	6/1/2023			9	Capacity	22.3	MW
DDOR064_GNA_182492104_Capacity	GNA_182492104_Capacity	DDOR064	Hollister Bank 2	Feeder		N/A	\$8,250	New	6/1/2023			9	Capacity	9.3	MW
DDOR065_GNA_0820301_Capacity	GNA_0820301_Capacity	DDOR065	Mountain View Bank 1	Bank		\$6,000	N/A	Existing	6/1/2023			9	Capacity	4.6	MW
DDOR066_GNA_083371104_Capacity	GNA_083371104_Capacity	DDOR066	Vasona 1109	Line Section		N/A	\$2,775	New	6/1/2025			7	Capacity	CC	MW
DDOR067_GNA_1922501_Capacity	GNA_1922501_Capacity	DDOR067	Rio Dell Bank	Bank and Feeder		\$16,800	N/A	New	6/1/2023			9	Capacity	CC	MW
DDOR067_GNA_192251101_Capacity	GNA_192251101_Capacity	DDOR067	Rio Dell Bank	Bank and Feeder		\$16,800	N/A	New	6/1/2023			9	Capacity	CC	MW
DDOR068_GNA_022691108_Capacity	GNA_022691108_Capacity	DDOR068	Sneath 1103	Feeder		N/A	\$3,750	New	6/1/2023			9	Capacity	CC	MW
DDOR070_GNA_0832402_Capacity	GNA_0832402_Capacity	DDOR070	Morgan Hill 2103	Feeder		N/A	\$2,400	New	6/1/2023			9	Capacity	0.5	MW
DDOR070_GNA_083242108_Capacity	GNA_083242108_Capacity	DDOR070	Morgan Hill 2103	Feeder		N/A	\$2,400	New	6/1/2023			9	Capacity	1.5	MW
DDOR070_GNA_0832403_Capacity	GNA_0832403_Capacity	DDOR070	Morgan Hill 2103	Feeder		N/A	\$2,400	New	6/1/2023			9	Capacity	10.0	MW
DDOR071_GNA_022031117_Capacity	GNA_022031117_Capacity	DDOR071	Potrero A 1117	Feeder		N/A	\$10,355	Existing	8/1/2023			9	Capacity	CC	MW
DDOR072_GNA_022871115_Capacity	GNA_022871115_Capacity	DDOR072	Mission X 1107	Feeder		N/A	\$1,950	Existing	8/1/2023			9	Capacity	CC	MW
DDOR073_GNA_2521703_Capacity	GNA_2521703_Capacity	DDOR073	Alpaugh 1102	Feeder		N/A	\$3,900	New	10/1/2023			9	Capacity	CC	MW
DDOR073_GNA_252171112_Capacity	GNA_252171112_Capacity	DDOR073	Alpaugh 1102	Feeder		N/A	\$3,900	New	10/1/2023			9	Capacity	CC	MW
DDOR073_GNA_252171108_Capacity	GNA_252171108_Capacity	DDOR073	Alpaugh 1102	Feeder		N/A	\$3,900	New	10/1/2023			9	Capacity	0.4	MW
DDOR074_GNA_022011104_Capacity	GNA_022011104_Capacity	DDOR074	Larkin (SF Y) 1142	Feeder		N/A	\$912	New	6/1/2023			9	Capacity	CC	MW
DDOR075_GNA_2531501_Capacity	GNA_2531501_Capacity	DDOR075	Giffen Bank 2	Bank and Feeder		\$12,800	N/A	New	4/1/2024			8	Capacity	CC	MW
DDOR075_GNA_253151102_Capacity	GNA_253151102_Capacity	DDOR075	Giffen Bank 2	Bank and Feeder		\$12,800	N/A	New	4/1/2024			8	Capacity	CC	MW
DDOR076_GNA_0620801_Capacity	GNA_0620801_Capacity	DDOR076	Arbuckle Bank 2	Bank and Feeder		\$6,500	N/A	Existing	4/1/2024			8	Capacity	2.6	MW
DDOR076_GNA_062081102_Capacity	GNA_062081102_Capacity	DDOR076	Arbuckle Bank 2	Bank and Feeder		\$6,500	N/A	Existing	4/1/2024			8	Capacity	0.5	MW
DDOR076_GNA_0638101_Capacity	GNA_0638101_Capacity	DDOR076	Arbuckle Bank 2	Bank and Feeder		\$6,500	N/A	Existing	4/1/2024			8	Capacity	4.4	MW
DDOR076_GNA_063811101_Capacity	GNA_063811101_Capacity	DDOR076	Arbuckle Bank 2	Bank and Feeder		\$6,500	N/A	Existing	4/1/2024			8	Capacity	4.5	MW
DDOR077_GNA_254611105_Capacity	GNA_254611105_Capacity	DDOR077	Storey 1103	Feeder		N/A	\$2,200	Existing	5/1/2024			8	Capacity	1.0	MW
DDOR077_GNA_2546102_Capacity	GNA_2546102_Capacity	DDOR077	Storey 1103	Feeder		N/A	\$2,200	Existing	5/1/2024			8	Capacity	CC	MW
DDOR077_GNA_254611109_Capacity	GNA_254611109_Capacity	DDOR077	Storey 1103	Feeder		N/A	\$2,200	Existing	5/1/2024			8	Capacity	2.8	MW
DDOR078_GNA_1822001_Capacity	GNA_1822001_Capacity	DDOR078	Spence Bank 2	Bank and Feeder		\$17,454	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR078_GNA_182201102_Capacity	GNA_182201102_Capacity	DDOR078	Spence Bank 2	Bank and Feeder		\$17,454	N/A	Existing	5/1/2024			8	Capacity	CC	MW



Unique ID	GNA ID	DDOR ID	Project Name	Project Type	Capital Cost (2022 \$)				Need Year/In Service Date	Grid Need Energy (MWh/yr)	Peak Day Energy (MWh)	Deferral Years	Distribution Service Required	Grid Need (MW/Vpu/MVAR)	Units
					General	Substation Equipment (\$000)	Primary Feeder/Line section (\$000)	New or Existing Equipment							
DDOR078_GNA_182201103_Capacity	GNA_182201103_Capacity	DDOR078	Spence Bank 2	Bank and Feeder		\$17,454	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR078_GNA_1822002_Capacity	GNA_1822002_Capacity	DDOR078	Spence Bank 2	Bank and Feeder		\$17,454	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR078_GNA_182201104_Capacity	GNA_182201104_Capacity	DDOR078	Spence Bank 2	Bank and Feeder		\$17,454	N/A	Existing	5/1/2024			8	Capacity	6.9	MW
DDOR079_GNA_1823301_Capacity	GNA_1823301_Capacity	DDOR079	Gabilan Bank 2	Bank and Feeder		\$13,802	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR079_GNA_182331101_Capacity	GNA_182331101_Capacity	DDOR079	Gabilan Bank 2	Bank and Feeder		\$13,802	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR080_GNA_0831902_Capacity	GNA_0831902_Capacity	DDOR080	Green Valley Bank 3	Bank and Feeder		\$22,066	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR080_GNA_0831903_Capacity	GNA_0831903_Capacity	DDOR080	Green Valley Bank 3	Bank and Feeder		\$22,066	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR081_GNA_253571112_Capacity	GNA_253571112_Capacity	DDOR081	Airways Bank 3	Bank and Feeder		\$8,500	N/A	New	5/1/2024			8	Capacity	3.3	MW
DDOR081_GNA_2535703_Capacity	GNA_2535703_Capacity	DDOR081	Airways Bank 3	Bank and Feeder		\$8,500	N/A	New	5/1/2024			8	Capacity	3.0	MW
DDOR081_GNA_252041102_Capacity	GNA_252041102_Capacity	DDOR081	Airways Bank 3	Bank and Feeder		\$8,500	N/A	New	5/1/2024			8	Capacity	1.8	MW
DDOR081_GNA_252041107_Capacity	GNA_252041107_Capacity	DDOR081	Airways Bank 3	Bank and Feeder		\$8,500	N/A	New	5/1/2024			8	Capacity	2.2	MW
DDOR081_GNA_254081102_Capacity	GNA_254081102_Capacity	DDOR081	Airways Bank 3	Bank and Feeder		\$8,500	N/A	New	5/1/2024			8	Capacity	0.2	MW
DDOR081_GNA_252411104_Capacity	GNA_252411104_Capacity	DDOR081	Airways Bank 3	Bank and Feeder		\$8,500	N/A	New	5/1/2024			8	Capacity	0.9	MW
DDOR082_GNA_2521602_Capacity	GNA_2521602_Capacity	DDOR082	Coalinga No 1 Bank 2	Bank and Feeder		\$6,000	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR082_GNA_252161107_Capacity	GNA_252161107_Capacity	DDOR082	Coalinga No 1 Bank 2	Bank and Feeder		\$6,000	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR083_GNA_0240203_Capacity	GNA_0240203_Capacity	DDOR083	Belle Haven Bank 4	Bank and Feeder		\$14,787	N/A	Existing	5/1/2024			8	Capacity	40.8	MW
DDOR083_GNA_024021103_Capacity	GNA_024021103_Capacity	DDOR083	Belle Haven Bank 4	Bank and Feeder		\$14,787	N/A	Existing	5/1/2024			8	Capacity	3.2	MW
DDOR083_GNA_0240204_Capacity	GNA_0240204_Capacity	DDOR083	Belle Haven Bank 4	Bank and Feeder		\$14,787	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR085_GNA_1626107_Capacity	GNA_1626107_Capacity	DDOR085	Ripon 1705	Feeder		N/A	\$2,261	New	5/1/2024			8	Capacity	CC	MW
DDOR085_GNA_1638002_Capacity	GNA_1638002_Capacity	DDOR085	Ripon 1705	Feeder		N/A	\$2,261	New	5/1/2024			8	Capacity	1.1	MW
DDOR085_GNA_163801704_Capacity	GNA_163801704_Capacity	DDOR085	Ripon 1705	Feeder		N/A	\$2,261	New	5/1/2024			8	Capacity	2.2	MW
DDOR085_GNA_162701707_Capacity	GNA_162701707_Capacity	DDOR085	Ripon 1705	Feeder		N/A	\$2,261	New	5/1/2024			8	Capacity	5.9	MW
DDOR086_GNA_1632901_Capacity	GNA_1632901_Capacity	DDOR086	French Camp Bank 1	Bank and Feeder		\$10,000	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR086_GNA_1632902_Capacity	GNA_1632902_Capacity	DDOR086	French Camp Bank 1	Bank and Feeder		\$10,000	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR086_GNA_163291104_Capacity	GNA_163291104_Capacity	DDOR086	French Camp Bank 1	Bank and Feeder		\$10,000	N/A	Existing	5/1/2024			8	Capacity	0.9	MW
DDOR087_GNA_1626106_Capacity	GNA_1626106_Capacity	DDOR087	Vierra Bank 3	Feeder		N/A	\$16,500	New	5/1/2024			8	Capacity	CC	MW
DDOR088_GNA_2534001_Capacity	GNA_2534001_Capacity	DDOR088	Hammonds Bank 1	Bank and Feeder		\$7,000	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR088_GNA_253401104_Capacity	GNA_253401104_Capacity	DDOR088	Hammonds Bank 1	Bank and Feeder		\$7,000	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR089_GNA_2553901_Capacity	GNA_2553901_Capacity	DDOR089	Bonita Bank 2	Bank and Feeder		\$12,800	N/A	New	5/1/2024			8	Capacity	0.9	MW
DDOR091_GNA_1822002_Capacity	GNA_1822002_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder		\$15,742	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR091_GNA_182201104_Capacity	GNA_182201104_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder		\$15,742	N/A	New	5/1/2025			7	Capacity	6.9	MW
DDOR091_GNA_182201102_Capacity	GNA_182201102_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder		\$15,742	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR091_GNA_1822001_Capacity	GNA_1822001_Capacity	DDOR091	Chualar Bank 1	Bank and Feeder		\$15,742	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR092_GNA_1826601_Capacity	GNA_1826601_Capacity	DDOR092	San Miguel Bank 2	Bank and Feeder		\$19,760	N/A	New	6/1/2024			8	Capacity	CC	MW
DDOR093_GNA_0139103_Capacity	GNA_0139103_Capacity	DDOR093	Willow Pass Bank 1	Bank		\$16,150	N/A	Existing	6/1/2024			8	Capacity	6.6	MW
DDOR094_GNA_1922201_Capacity	GNA_1922201_Capacity	DDOR094	Garberville Bank 2	Bank and Feeder		\$54,100	N/A	New	6/1/2024			8	Capacity	8.8	MW
DDOR094_GNA_192221102_Capacity	GNA_192221102_Capacity	DDOR094	Garberville Bank 2	Bank and Feeder		\$54,100	N/A	New	6/1/2024			8	Capacity	3.4	MW
DDOR095_GNA_2544603_Capacity	GNA_2544603_Capacity	DDOR095	Newhall Bank 3	Bank and Feeder		\$17,000	N/A	Existing	6/1/2024			8	Capacity	CC	MW
DDOR095_GNA_254461109_Capacity	GNA_254461109_Capacity	DDOR095	Newhall Bank 3	Bank and Feeder		\$17,000	N/A	Existing	6/1/2024			8	Capacity	CC	MW
DDOR096_GNA_083371109_Capacity	GNA_083371109_Capacity	DDOR096	Wolfe 1111	Feeder		N/A	\$8,788	New	6/1/2024			8	Capacity	CC	MW
DDOR096_GNA_083371110_Capacity	GNA_083371110_Capacity	DDOR096	Wolfe 1111	Feeder		N/A	\$8,788	New	6/1/2024			8	Capacity	0.6	MW
DDOR096_GNA_083371114_Capacity	GNA_083371114_Capacity	DDOR096	Wolfe 1111	Feeder		N/A	\$8,788	New	6/1/2024			8	Capacity	0.6	MW
DDOR096_GNA_083671105_Capacity	GNA_083671105_Capacity	DDOR096	Wolfe 1111	Feeder		N/A	\$8,788	New	6/1/2024			8	Capacity	CC	MW
DDOR097_GNA_062041109_Capacity	GNA_062041109_Capacity	DDOR097	Plainfield Bank 1	Bank and Feeder		\$14,000	N/A	Existing	6/1/2024			8	Capacity	0.9	MW

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Unique ID	GNA ID	DDOR ID	Project Name	Project Type	Capital Cost (2022 \$)				Need Year/In Service Date	Grid Need Energy (MWh/yr)	Peak Day Energy (MWh)	Deferral Years	Distribution Service Required	Grid Need (MW/Vpu/MVAR)	Units
					General	Substation Equipment (\$000)	Primary Feeder/Line section (\$000)	New or Existing Equipment							
DDOR098_GNA_0835301_Capacity	GNA_0835301_Capacity	DDOR098	Mc Kee 1102	Feeder		N/A	\$11,700	New	6/1/2024			8	Capacity	2.9	MW
DDOR098_GNA_083531107_Capacity	GNA_083531107_Capacity	DDOR098	Mc Kee 1102	Feeder		N/A	\$11,700	New	6/1/2024			8	Capacity	1.9	MW
DDOR098_GNA_083531108_Capacity	GNA_083531108_Capacity	DDOR098	Mc Kee 1102	Feeder		N/A	\$11,700	New	6/1/2024			8	Capacity	CC	MW
DDOR098_GNA_083531110_Capacity	GNA_083531110_Capacity	DDOR098	Mc Kee 1102	Feeder		N/A	\$11,700	New	6/1/2024			8	Capacity	1.2	MW
DDOR1000_GNA_253931101_Capacity	GNA_253931101_Capacity	DDOR1000	GATES 1101	Feeder		N/A	\$2,800	New	5/1/2024			8	Capacity	CC	MW
DDOR1001_GNA_252891110_Capacity	GNA_252891110_Capacity	DDOR1001	Camden 1106	Feeder		N/A	\$13,808	New	5/31/2025			7	Capacity	CC	MW
DDOR1001_GNA_252681110_Capacity	GNA_252681110_Capacity	DDOR1001	Camden 1106	Feeder		N/A	\$13,808	New	5/31/2025			7	Capacity	0.3	MW
DDOR1001_GNA_2523001_Capacity	GNA_2523001_Capacity	DDOR1001	Camden 1106	Feeder		N/A	\$13,808	New	5/31/2025			7	Capacity	CC	MW
DDOR1001_GNA_252301103_Capacity	GNA_252301103_Capacity	DDOR1001	Camden 1106	Feeder		N/A	\$13,808	New	5/31/2025			7	Capacity	1.3	MW
DDOR1001_GNA_2537101_Capacity	GNA_2537101_Capacity	DDOR1001	Camden 1106	Feeder		N/A	\$13,808	New	5/31/2025			7	Capacity	2.3	MW
DDOR1002_GNA_2522101_Capacity	GNA_2522101_Capacity	DDOR1002	West Fresno 1113	Feeder		N/A	\$8,000	New	5/31/2024			8	Capacity	CC	MW
DDOR1002_GNA_2527003_Capacity	GNA_2527003_Capacity	DDOR1002	West Fresno 1113	Feeder		N/A	\$8,000	New	5/31/2024			8	Capacity	CC	MW
DDOR1002_GNA_252711106_Capacity	GNA_252711106_Capacity	DDOR1002	West Fresno 1113	Feeder		N/A	\$8,000	New	5/31/2024			8	Capacity	CC	MW
DDOR1002_GNA_2527102_Capacity	GNA_2527102_Capacity	DDOR1002	West Fresno 1113	Feeder		N/A	\$8,000	New	5/31/2024			8	Capacity	6.4	MW
DDOR1002_GNA_252711101_Capacity	GNA_252711101_Capacity	DDOR1002	West Fresno 1113	Feeder		N/A	\$8,000	New	5/31/2024			8	Capacity	1.3	MW
DDOR1002_GNA_252711102_Capacity	GNA_252711102_Capacity	DDOR1002	West Fresno 1113	Feeder		N/A	\$8,000	New	5/31/2024			8	Capacity	2.0	MW
DDOR1003_GNA_253601101_Capacity	GNA_253601101_Capacity	DDOR1003	Lemoore 1106	Feeder		N/A	\$1,580	New	5/31/2024			8	Capacity	0.7	MW
DDOR1003_GNA_253601105_Capacity	GNA_253601105_Capacity	DDOR1003	Lemoore 1106	Feeder		N/A	\$1,580	New	5/31/2024			8	Capacity	1.2	MW
DDOR1004_GNA_252371102_Capacity	GNA_252371102_Capacity	DDOR1004	Caruthers Install 1106 Feeder	Bank		\$1,400	N/A	New	5/1/2024			8	Capacity	3.4	MW
DDOR1005_GNA_2523601_Capacity	GNA_2523601_Capacity	DDOR1005	San Joaquin Bank 2	Bank and Feeder		\$13,264	N/A	New	5/31/2025			7	Capacity	2.4	MW
DDOR1005_GNA_252361106_Capacity	GNA_252361106_Capacity	DDOR1005	San Joaquin Bank 2	Bank and Feeder		\$13,264	N/A	New	5/31/2025			7	Capacity	1.2	MW
DDOR1005_GNA_2536601_Capacity	GNA_2536601_Capacity	DDOR1005	San Joaquin Bank 2	Bank and Feeder		\$13,264	N/A	New	5/31/2025			7	Capacity	CC	MW
DDOR1006_GNA_2523403_Capacity	GNA_2523403_Capacity	DDOR1006	Reedley Bank 3	Feeder		N/A	\$1,550	New	5/31/2024			8	Capacity	CC	MW
DDOR1007_GNA_1922901_Capacity	GNA_1922901_Capacity	DDOR1007	Carlotta Bank 2	Bank		\$7,500	N/A	Existing	5/31/2025			7	Capacity	1.0	MW
DDOR1007_GNA_192291121_Capacity	GNA_192291121_Capacity	DDOR1007	Carlotta Bank 2	Bank		\$7,500	N/A	Existing	5/31/2025			7	Capacity	1.0	MW
DDOR1008_GNA_2528201_Capacity	GNA_2528201_Capacity	DDOR1008	Old River Bank 2	Bank		\$11,600	N/A	Existing	5/31/2025			7	Capacity	CC	MW
DDOR1008_GNA_252821102_Capacity	GNA_252821102_Capacity	DDOR1008	Old River Bank 2	Bank		\$11,600	N/A	Existing	5/31/2025			7	Capacity	0.4	MW
DDOR1008_GNA_2528202_Capacity	GNA_2528202_Capacity	DDOR1008	Old River Bank 2	Bank		\$11,600	N/A	Existing	5/31/2025			7	Capacity	0.5	MW
DDOR1009_GNA_2534801_Capacity	GNA_2534801_Capacity	DDOR1009	Wheeler Ridge Bank 6	Bank and Feeder		\$19,000	N/A	New	5/1/2024			8	Capacity	CC	MW
DDOR1009_GNA_253481101_Capacity	GNA_253481101_Capacity	DDOR1009	Wheeler Ridge Bank 6	Bank and Feeder		\$19,000	N/A	New	5/1/2024			8	Capacity	CC	MW
DDOR1010_GNA_0431803_Capacity	GNA_0431803_Capacity	DDOR1010	Bellevue Bank 1	Bank		\$7,404	N/A	Existing	4/24/2022			10	Capacity	7.8	MW
DDOR1010_GNA_0431804_Capacity	GNA_0431804_Capacity	DDOR1010	Bellevue Bank 1	Bank		\$7,404	N/A	Existing	4/24/2022			10	Capacity	2.0	MW
DDOR1010_GNA_043182101_Capacity	GNA_043182101_Capacity	DDOR1010	Bellevue Bank 1	Bank		\$7,404	N/A	Existing	4/24/2022			10	Capacity	6.5	MW
DDOR1011_GNA_0225705_Capacity	GNA_0225705_Capacity	DDOR1011	Sneath Lane Bank 1	Bank		\$2,400	N/A	Existing	12/1/2022			10	Capacity	CC	MW
DDOR1011_GNA_022571110_Capacity	GNA_022571110_Capacity	DDOR1011	Sneath Lane Bank 1	Bank		\$2,400	N/A	Existing	12/1/2022			10	Capacity	CC	MW
DDOR1011_GNA_022691108_Capacity	GNA_022691108_Capacity	DDOR1011	Sneath Lane Bank 1	Bank		\$2,400	N/A	Existing	12/1/2022			10	Capacity	CC	MW
DDOR1012_GNA_022261102_Capacity	GNA_022261102_Capacity	DDOR1012	Mission X 1110 Circuit Extension	Feeder		N/A	\$1,174	Existing	6/1/2022			10	Capacity	CC	MW
DDOR1014_GNA_1524602_Capacity	GNA_1524602_Capacity	DDOR1014	Placer Bank 2	Bank		\$2,500	N/A	Existing	12/31/2022			10	Capacity	CC	MW
DDOR1015_GNA_024091102_Capacity	GNA_024091102_Capacity	DDOR1015	Glenwood 1103	Feeder		N/A	\$761	New	6/1/2023			9	Capacity	0.6	MW
DDOR1016_GNA_0220301_Capacity	GNA_0220301_Capacity	DDOR1016	Potrero 1122	Feeder		N/A	\$1,714	New	10/1/2023			9	Capacity	CC	MW
DDOR1016_GNA_022031121_Capacity	GNA_022031121_Capacity	DDOR1016	Potrero 1122	Feeder		N/A	\$1,714	New	10/1/2023			9	Capacity	CC	MW
DDOR1017_GNA_0627201_Capacity	GNA_0627201_Capacity	DDOR1017	Knights Landing Bank 1	Bank		\$1,000	N/A	New	5/1/2023			9	Capacity	1.2	MW
DDOR1017_GNA_0631901_Capacity	GNA_0631901_Capacity	DDOR1017	Knights Landing Bank 1	Bank		\$1,000	N/A	New	5/1/2023			9	Capacity	3.3	MW
DDOR1018_GNA_0627201_Capacity	GNA_0627201_Capacity	DDOR1018	Knights Landing Bank 1	Bank		\$2,500	N/A	New	5/1/2023			9	Capacity	1.2	MW

Unique ID	GNA ID	DDOR ID	Project Name	Project Type	Capital Cost (2022 \$)				Need Year/In Service Date	Grid Need Energy (MWh/yr)	Peak Day Energy (MWh)	Deferral Years	Distribution Service Required	Grid Need (MW/Vpu/MVAR)	Units
					General	Substation Equipment (\$000)	Primary Feeder/Line section (\$000)	New or Existing Equipment							
DDOR1018_GNA_0631901_Capacity	GNA_0631901_Capacity	DDOR1018	Knights Landing Bank 1	Bank		\$2,500	N/A	New	5/1/2023			9	Capacity	3.3	MW
DDOR1019_GNA_2545701_Capacity	GNA_2545701_Capacity	DDOR1019	Renfro 2106	Feeder		N/A	\$500	New	5/1/2024			8	Capacity	CC	MW
DDOR102_GNA_0838903_Capacity	GNA_0838903_Capacity	DDOR102	Montague Bank 2	Bank		\$9,400	N/A	Existing	5/1/2025			7	Capacity	CC	MW
DDOR102_GNA_0838903_Resiliency	GNA_0838903_Resiliency	DDOR102	Montague Bank 2	Bank		\$9,400	N/A	Existing	5/1/2025			7	Resiliency	CC	MW
DDOR1020_GNA_2546901_Capacity	GNA_2546901_Capacity	DDOR1020	Tupman Bank 2	Feeder		N/A	\$2,800	New	5/1/2024			8	Capacity	CC	MW
DDOR1020_GNA_254691101_Capacity	GNA_254691101_Capacity	DDOR1020	Tupman Bank 2	Feeder		N/A	\$2,800	New	5/1/2024			8	Capacity	CC	MW
DDOR1022_GNA_162991101_Capacity	GNA_162991101_Capacity	DDOR1022	Corral 1104	Feeder		N/A	\$3,000	New	6/1/2024			8	Capacity	1.6	MW
DDOR1023_GNA_2527601_Capacity	GNA_2527601_Capacity	DDOR1023	Madera Bank 1	Bank		\$13,100	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR1023_GNA_252761112_Capacity	GNA_252761112_Capacity	DDOR1023	Madera Bank 1	Bank		\$13,100	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR1025_GNA_1027401_Capacity	GNA_1027401_Capacity	DDOR1025	Logan Creek Bank 3	Bank and Feeder		\$10,000	N/A	New	5/1/2024			8	Capacity	10.0	MW
DDOR1025_GNA_102741101_Capacity	GNA_102741101_Capacity	DDOR1025	Logan Creek Bank 3	Bank and Feeder		\$10,000	N/A	New	5/1/2024			8	Capacity	5.9	MW
DDOR1026_GNA_024021104_Capacity	GNA_024021104_Capacity	DDOR1026	Ravenswood Substation	Bank and Feeder		\$40,747	N/A	New	4/1/2025			7	Capacity	31.7	MW
DDOR1026_GNA_0240203_Capacity	GNA_0240203_Capacity	DDOR1026	Ravenswood Substation	Bank and Feeder		\$40,747	N/A	New	4/1/2025			7	Capacity	40.8	MW
DDOR1027_GNA_0226904_Capacity	GNA_0226904_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder		\$18,026	N/A	New	5/2/2025			7	Capacity	CC	MW
DDOR1027_GNA_022691101_Capacity	GNA_022691101_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder		\$18,026	N/A	New	5/2/2025			7	Capacity	CC	MW
DDOR1027_GNA_0225701_Capacity	GNA_0225701_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder		\$18,026	N/A	New	5/2/2025			7	Capacity	CC	MW
DDOR1027_GNA_022571112_Capacity	GNA_022571112_Capacity	DDOR1027	Millbrae Substation	Bank and Feeder		\$18,026	N/A	New	5/2/2025			7	Capacity	CC	MW
DDOR1029_GNA_2545801_Capacity	GNA_2545801_Capacity	DDOR1029	7th Standard Bank 2	Bank and Feeder		\$20,464	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1029_GNA_254582102_Capacity	GNA_254582102_Capacity	DDOR1029	7th Standard Bank 2	Bank and Feeder		\$20,464	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1029_GNA_254582103_Capacity	GNA_254582103_Capacity	DDOR1029	7th Standard Bank 2	Bank and Feeder		\$20,464	N/A	New	5/1/2025			7	Capacity	1.1	MW
DDOR103_GNA_0433202_Capacity	GNA_0433202_Capacity	DDOR103	Rincon 1105	Feeder		N/A	\$1,200	New	5/1/2024			8	Capacity	3.6	MW
DDOR1030_GNA_2524601_Capacity	GNA_2524601_Capacity	DDOR1030	Famoso Bank 1	Bank and Feeder		\$12,480	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1030_GNA_252461103_Capacity	GNA_252461103_Capacity	DDOR1030	Famoso Bank 1	Bank and Feeder		\$12,480	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1031_GNA_252901110_Capacity	GNA_252901110_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025			7	Capacity	2.9	MW
DDOR1031_GNA_2545401_Capacity	GNA_2545401_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1031_GNA_254541103_Capacity	GNA_254541103_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1031_GNA_2542001_Capacity	GNA_2542001_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1031_GNA_254202104_Capacity	GNA_254202104_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1031_GNA_2529003_Capacity	GNA_2529003_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1031_GNA_252901108_Capacity	GNA_252901108_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1031_GNA_2529601_Capacity	GNA_2529601_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1031_GNA_252961102_Capacity	GNA_252961102_Capacity	DDOR1031	Semitropic Bank 4	Bank and Feeder		\$24,179	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1032_GNA_2553201_Capacity	GNA_2553201_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1032_GNA_255322101_Capacity	GNA_255322101_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025			7	Capacity	2.7	MW
DDOR1032_GNA_255322102_Capacity	GNA_255322102_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1032_GNA_2553202_Capacity	GNA_2553202_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025			7	Capacity	2.5	MW
DDOR1032_GNA_255322104_Capacity	GNA_255322104_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025			7	Capacity	3.8	MW
DDOR1032_GNA_2534201_Capacity	GNA_2534201_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025			7	Capacity	14.9	MW
DDOR1032_GNA_253422101_Capacity	GNA_253422101_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025			7	Capacity	12.9	MW
DDOR1032_GNA_254572101_Capacity	GNA_254572101_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025			7	Capacity	0.6	MW
DDOR1032_GNA_254072112_Capacity	GNA_254072112_Capacity	DDOR1032	Tevis Bank 1	Bank and Feeder		\$35,547	N/A	New	5/1/2025			7	Capacity	8.7	MW
DDOR1033_GNA_1634806_Capacity	GNA_1634806_Capacity	DDOR1033	Weber Bank 7	Bank and Feeder		\$18,101	N/A	New	5/1/2025			7	Capacity	CC	MW
DDOR1033_GNA_163481110_Capacity	GNA_163481110_Capacity	DDOR1033	Weber Bank 7	Bank and Feeder		\$18,101	N/A	New	5/1/2025			7	Capacity	20.3	MW
DDOR1034_GNA_0424601_Capacity	GNA_0424601_Capacity	DDOR1034	Tulucay Bank 4	Bank and Feeder		\$17,080	N/A	New	5/31/2025			7	Capacity	CC	MW



**PG&E 2022 Distribution Deferral Opportunity Report (DDOR)**  
**Appendix E: LNBA - Planned Investments - Project Specific Inputs**  
**Version Date: 08/15/2022**  
**Public**

Unique ID	GNA ID	DDOR ID	Project Name	Project Type	Capital Cost (2022 \$)				Need Year/In Service Date	Grid Need Energy (MWh/yr)	Peak Day Energy (MWh)	Deferral Years	Distribution Service Required	Grid Need (MW/Vpu/MVAR)	Units
					General	Substation Equipment (\$000)	Primary Feeder/Line section (\$000)	New or Existing Equipment							
DDOR1034_GNA_0424602_Capacity	GNA_0424602_Capacity	DDOR1034	Tulucay Bank 4	Bank and Feeder		\$17,080	N/A	New	5/31/2025			7	Capacity	CC	MW
DDOR1034_GNA_042461105_Capacity	GNA_042461105_Capacity	DDOR1034	Tulucay Bank 4	Bank and Feeder		\$17,080	N/A	New	5/31/2025			7	Capacity	CC	MW
DDOR104_GNA_042561101_Capacity	GNA_042561101_Capacity	DDOR104	Fulton Bank 5	Bank and Feeder		\$13,100	N/A	Existing	5/1/2024			8	Capacity	1.0	MW
DDOR104_GNA_0425606_Capacity	GNA_0425606_Capacity	DDOR104	Fulton Bank 5	Bank and Feeder		\$13,100	N/A	Existing	5/1/2024			8	Capacity	8.1	MW
DDOR104_GNA_042561105_Capacity	GNA_042561105_Capacity	DDOR104	Fulton Bank 5	Bank and Feeder		\$13,100	N/A	Existing	5/1/2024			8	Capacity	4.2	MW
DDOR104_GNA_042561106_Capacity	GNA_042561106_Capacity	DDOR104	Fulton Bank 5	Bank and Feeder		\$13,100	N/A	Existing	5/1/2024			8	Capacity	0.7	MW
DDOR104_GNA_042561107_Capacity	GNA_042561107_Capacity	DDOR104	Fulton Bank 5	Bank and Feeder		\$13,100	N/A	Existing	5/1/2024			8	Capacity	0.8	MW
DDOR1046_GNA_253571115_Capacity	GNA_253571115_Capacity	DDOR1046	Barton 1115	Line Section		N/A	\$1,070	Existing	6/1/2023			9	Capacity	1.9	MW
DDOR1047_GNA_252661103_Capacity	GNA_252661103_Capacity	DDOR1047	Guernsey 1103	Line Section		N/A	\$445	Existing	6/1/2023			9	Capacity	CC	MW
DDOR1048_GNA_252381106_Capacity	GNA_252381106_Capacity	DDOR1048	Coalinga 1106	Line Section		N/A	\$4,639	Existing	8/1/2023			9	Capacity	CC	MW
DDOR1049_GNA_182352104_Capacity	GNA_182352104_Capacity	DDOR1049	Fort Ord 2107	Line Section		N/A	\$4,680	Existing	5/1/2022			10	Capacity	0.5	MW
DDOR1049_GNA_182402107_Capacity	GNA_182402107_Capacity	DDOR1049	Fort Ord 2107	Line Section		N/A	\$4,680	Existing	5/1/2022			10	Capacity	CC	MW
DDOR105_GNA_1636804_Resiliency	GNA_1636804_Resiliency	DDOR105	Lockeford Bank 5	Bank and Feeder		\$13,705	N/A	New	5/1/2025			7	Resiliency	CC	MW
DDOR1050_GNA_252951106_Capacity	GNA_252951106_Capacity	DDOR1050	Tulare Lake 1106	Line Section		N/A	\$3,040	Existing	6/1/2022			10	Capacity	CC	MW
DDOR1051_GNA_252281111_Capacity	GNA_252281111_Capacity	DDOR1051	South Fresno Overload Relief	Line Section		N/A	\$1,547	Existing	6/1/2023			9	Capacity	CC	MW
DDOR1051_GNA_252281102_Capacity	GNA_252281102_Capacity	DDOR1051	South Fresno Overload Relief	Line Section		N/A	\$1,547	Existing	6/1/2023			9	Capacity	1.7	MW
DDOR1051_GNA_2542502_Capacity	GNA_2542502_Capacity	DDOR1051	South Fresno Overload Relief	Line Section		N/A	\$1,547	Existing	6/1/2023			9	Capacity	CC	MW
DDOR1051_GNA_254251106_Capacity	GNA_254251106_Capacity	DDOR1051	South Fresno Overload Relief	Line Section		N/A	\$1,547	Existing	6/1/2023			9	Capacity	CC	MW
DDOR1052_GNA_254251102_Capacity	GNA_254251102_Capacity	DDOR1052	Malaga 1110	Line Section		N/A	\$942	Existing	6/1/2023			9	Capacity	CC	MW
DDOR1054_GNA_2538001_Capacity	GNA_2538001_Capacity	DDOR1054	Arvin 1101	Line Section		N/A	\$30	New	4/1/2022			10	Capacity	CC	MW
DDOR1055_GNA_252821102_Capacity	GNA_252821102_Capacity	DDOR1055	Old River 1102	Line Section		N/A	\$2,231	Existing	6/1/2023			9	Capacity	0.4	MW
DDOR1056_GNA_2539101_Capacity	GNA_2539101_Capacity	DDOR1056	Lamont 1102	Line Section		N/A	\$90	New	6/1/2023			9	Capacity	CC	MW
DDOR1057_GNA_252971106_Capacity	GNA_252971106_Capacity	DDOR1057	Weedpatch 1106	Line Section		N/A	\$982	Existing	12/1/2023			9	Capacity	0.5	MW
DDOR1058_GNA_2528602_Capacity	GNA_2528602_Capacity	DDOR1058	7th Standard 2102	Line Section		N/A	\$206	New	3/31/2023			9	Capacity	CC	MW
DDOR1058_GNA_255262105_Capacity	GNA_255262105_Capacity	DDOR1058	7th Standard 2102	Line Section		N/A	\$206	New	3/31/2023			9	Capacity	0.2	MW
DDOR1059_GNA_253651103_Capacity	GNA_253651103_Capacity	DDOR1059	Shafter 1103	Line Section		N/A	\$30	New	6/1/2023			9	Capacity	CC	MW
DDOR1060_GNA_255451102_Capacity	GNA_255451102_Capacity	DDOR1060	Cal Water 1102	Line Section		N/A	\$2,812	New	6/1/2022			10	Capacity	1.4	MW
DDOR1061_GNA_252772108_Capacity	GNA_252772108_Capacity	DDOR1061	Magunden 2108	Line Section		N/A	\$210	New	12/1/2023			9	Capacity	1.6	MW
DDOR1063_GNA_253181102_Capacity	GNA_253181102_Capacity	DDOR1063	Mc Farland 1102	Line Section		N/A	\$995	Existing	6/1/2023			9	Capacity	CC	MW
DDOR1065_GNA_253551102_Capacity	GNA_253551102_Capacity	DDOR1065	Smyrna 1102	Line Section		N/A	\$64	Existing	6/1/2023			9	Capacity	CC	MW
DDOR1067_GNA_1027001_Capacity	GNA_1027001_Capacity	DDOR1067	Glenn 1101	Line Section		N/A	\$2,780	Existing	5/1/2022			10	Capacity	1.5	MW
DDOR1068_GNA_022691106_Capacity	GNA_022691106_Capacity	DDOR1068	Millbrae 1106	Line Section		N/A	\$208	Existing	6/1/2022			10	Capacity	0.3	MW
DDOR1069_GNA_024261105_Capacity	GNA_024261105_Capacity	DDOR1069	Briar 1101	Feeder		N/A	\$873	Existing	5/1/2022			10	Capacity	CC	MW
DDOR1070_GNA_0241604_Capacity	GNA_0241604_Capacity	DDOR1070	Redwood City 1102	Line Section		N/A	\$452	New	6/1/2022			10	Capacity	1.1	MW
DDOR1071_GNA_062462226_Capacity	GNA_062462226_Capacity	DDOR1071	Grand Island 2226	Line Section		N/A	\$1,530	Existing	6/1/2022			10	Capacity	3.5	MW
DDOR1072_GNA_063601109_Capacity	GNA_063601109_Capacity	DDOR1072	Peabody 2106	Line Section		N/A	\$226	Existing	6/1/2022			10	Capacity	1.2	MW
DDOR1073_GNA_063621109_Capacity	GNA_063621109_Capacity	DDOR1073	Deepwater 1110	Feeder		N/A	\$5,392	New	6/1/2022			10	Capacity	1.8	MW
DDOR1073_GNA_0631301_Capacity	GNA_0631301_Capacity	DDOR1073	Deepwater 1110	Feeder		N/A	\$5,392	New	6/1/2022			10	Capacity	CC	MW
DDOR1073_GNA_063131106_Capacity	GNA_063131106_Capacity	DDOR1073	Deepwater 1110	Feeder		N/A	\$5,392	New	6/1/2022			10	Capacity	CC	MW
DDOR1073_GNA_063131110_Capacity	GNA_063131110_Capacity	DDOR1073	Deepwater 1110	Feeder		N/A	\$5,392	New	6/1/2022			10	Capacity	7.7	MW
DDOR1074_GNA_022011109_Capacity	GNA_022011109_Capacity	DDOR1074	Mission X 1113	Line Section		N/A	\$2,052	Existing	6/1/2022			10	Capacity	CC	MW
DDOR1074_GNA_022011113_Capacity	GNA_022011113_Capacity	DDOR1074	Mission X 1113	Line Section		N/A	\$2,052	Existing	6/1/2022			10	Capacity	2.6	MW
DDOR1075_GNA_0833902_Capacity	GNA_0833902_Capacity	DDOR1075	Swift 2102	Line Section		N/A	\$128	New	6/1/2023			9	Capacity	5.5	MW
DDOR1075_GNA_083392108_Capacity	GNA_083392108_Capacity	DDOR1075	Swift 2102	Line Section		N/A	\$128	New	6/1/2023			9	Capacity	1.6	MW

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Unique ID	GNA ID	DDOR ID	Project Name	Project Type	Capital Cost (2022 \$)				Need Year/In Service Date	Grid Need Energy (MWh/yr)	Peak Day Energy (MWh)	Deferral Years	Distribution Service Required	Grid Need (MW/Vpu/MVAR)	Units
					General	Substation Equipment (\$000)	Primary Feeder/Line section (\$000)	New or Existing Equipment							
DDOR1076_GNA_0828303_Capacity	GNA_0828303_Capacity	DDOR1076	Montague 2106	Line Section		N/A	\$1,220	New	6/1/2022			10	Capacity	CC	MW
DDOR1076_GNA_082832112_Capacity	GNA_082832112_Capacity	DDOR1076	Montague 2106	Line Section		N/A	\$1,220	New	6/1/2022			10	Capacity	CC	MW
DDOR1077_GNA_083182103_Capacity	GNA_083182103_Capacity	DDOR1077	Llagas 2102	Line Section		N/A	\$914	New	6/1/2022			10	Capacity	2.1	MW
DDOR1077_GNA_0831803_Capacity	GNA_0831803_Capacity	DDOR1077	Llagas 2102	Line Section		N/A	\$914	New	6/1/2022			10	Capacity	11.4	MW
DDOR1078_GNA_082921107_Capacity	GNA_082921107_Capacity	DDOR1078	El Patio 1107	Line Section		N/A	\$190	Existing	6/1/2022			10	Capacity	0.9	MW
DDOR1079_GNA_043501102_Capacity	GNA_043501102_Capacity	DDOR1079	Windsor 1102	Line Section		N/A	\$960	Existing	6/1/2023			9	Capacity	1.2	MW
DDOR1080_GNA_042151105_Capacity	GNA_042151105_Capacity	DDOR1080	Santa Rosa A 1105	Line Section		N/A	\$768	Existing	4/3/2023			9	Capacity	CC	MW
DDOR1081_GNA_042151111_Capacity	GNA_042151111_Capacity	DDOR1081	Santa Rosa 1107	Line Section		N/A	\$704	Existing	6/1/2022			10	Capacity	0.9	MW
DDOR1082_GNA_163091104_Capacity	GNA_163091104_Capacity	DDOR1082	Carbona 1105	Feeder		N/A	\$2,806	New	5/1/2022			10	Capacity	CC	MW
DDOR1083_GNA_2541001_Capacity	GNA_2541001_Capacity	DDOR1083	Chowchilla 1105	Line Section		N/A	\$1,505	New	5/31/2023			9	Capacity	CC	MW
DDOR1084_GNA_2524501_Capacity	GNA_2524501_Capacity	DDOR1084	El Nido 1104	Line Section		N/A	\$3,769	Existing	6/1/2023			9	Capacity	CC	MW
DDOR1085_GNA_252761119_Capacity	GNA_252761119_Capacity	DDOR1085	Madera 1117	Feeder		N/A	\$1,764	New	6/1/2023			9	Capacity	4.2	MW
DDOR1086_GNA_254611104_Capacity	GNA_254611104_Capacity	DDOR1086	Bonita 1102	Line Section		N/A	\$506	Existing	6/1/2022			10	Capacity	4.9	MW
DDOR1089_GNA_2523102_Capacity	GNA_2523102_Capacity	DDOR1089	Mendota 1101	Line Section		N/A	\$30	New	6/1/2022			10	Capacity	CC	MW
DDOR1090_GNA_254272108_Capacity	GNA_254272108_Capacity	DDOR1090	Cassidy 2108	Bank		\$5,571	N/A	New	10/1/2022			10	Capacity	3.2	MW
DDOR1091_GNA_163481102_Capacity	GNA_163481102_Capacity	DDOR1091	Weber 1102	Feeder		N/A	\$1,892,400	New	7/1/2022			10	Capacity	3.3	MW
DDOR113_GNA_1628801_Capacity	GNA_1628801_Capacity	DDOR113	Banta Bank 1	Bank		\$9,900	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR113_GNA_162881102_Capacity	GNA_162881102_Capacity	DDOR113	Banta Bank 1	Bank		\$9,900	N/A	Existing	5/1/2024			8	Capacity	CC	MW
DDOR114_GNA_082261116_Capacity	GNA_082261116_Capacity	DDOR114	FMC 1106	Feeder		N/A	\$6,200	New	6/1/2023			9	Capacity	CC	MW
DDOR117_GNA_252051112_Capacity	GNA_252051112_Capacity	DDOR117	Ashlan 1112	Line Section		N/A	\$45,047	New	5/1/2023			9	Capacity	0.5	MW
DDOR123_GNA_0422805_Capacity	GNA_0422805_Capacity	DDOR123	Potter Valley 1105	Line Section		N/A	\$1,822	Existing	5/30/2023			9	Capacity	CC	MW
DDOR124_GNA_012091116_Resiliency	GNA_012091116_Resiliency	DDOR124	Oakland J 1116	Feeder		N/A	\$1,100	Existing	12/1/2022			10	Resiliency	2.2	MW
DDOR125_GNA_012541115_Resiliency	GNA_012541115_Resiliency	DDOR125	Oakland X1115	Line Section		N/A	\$426	Existing	12/1/2022			10	Resiliency	0.7	MW
DDOR126_GNA_083692105_Resiliency	GNA_083692105_Resiliency	DDOR126	Rob Roy 2105	Line Section		N/A	\$500	New	10/1/2024			8	Resiliency	3.3	MW
DDOR127_GNA_182011102_Resiliency	GNA_182011102_Resiliency	DDOR127	Salinas 1102	Line Section		N/A	\$250	Existing	10/1/2024			8	Resiliency	CC	MW
DDOR130_GNA_022101108_Resiliency	GNA_022101108_Resiliency	DDOR130	Martin (SF H) 1108	Line Section		N/A	\$180	Existing	10/1/2024			8	Resiliency	CC	MW
DDOR131_GNA_082952108_Resiliency	GNA_082952108_Resiliency	DDOR131	Edenvale 2108	Line Section		N/A	\$95	New	10/1/2024			8	Resiliency	1.7	MW
DDOR133_GNA_253881102_Capacity	GNA_253881102_Capacity	DDOR133	El Capitan 1102	Line Section		N/A	\$400	New	6/1/2022			10	Capacity	CC	MW
DDOR133_GNA_253882110_Capacity	GNA_253882110_Capacity	DDOR133	El Capitan 1102	Line Section		N/A	\$400	New	6/1/2022			10	Capacity	0.9	MW
DDOR136_GNA_1629902_Capacity	GNA_1629902_Capacity	DDOR136	Valley Springs 1102 Feeder Outlet	Feeder		N/A	\$1,525	New	5/1/2022			10	Capacity	0.5	MW
DDOR136_GNA_162991102_Capacity	GNA_162991102_Capacity	DDOR136	Valley Springs 1102 Feeder Outlet	Feeder		N/A	\$1,525	New	5/1/2022			10	Capacity	2.8	MW
DDOR137_GNA_013652103_Capacity	GNA_013652103_Capacity	DDOR137	Contra Costa 2105	Line Section		N/A	\$465	New	5/1/2022			10	Capacity	6.0	MW
DDOR137_GNA_013652116_Capacity	GNA_013652116_Capacity	DDOR137	Contra Costa 2105	Line Section		N/A	\$465	New	5/1/2022			10	Capacity	4.5	MW
DDOR138_GNA_252241111_Capacity	GNA_252241111_Capacity	DDOR138	Kingsburg 1113	Line Section		N/A	\$7,650	Existing	6/1/2022			10	Capacity	2.7	MW
DDOR138_GNA_252241113_Capacity	GNA_252241113_Capacity	DDOR138	Kingsburg 1113	Line Section		N/A	\$7,650	Existing	6/1/2022			10	Capacity	CC	MW
DDOR140_GNA_0821601_Capacity	GNA_0821601_Capacity	DDOR140	LOYOLA BANK 1	Line Section		N/A	\$4,544	Existing	12/15/2022			10	Capacity	0.1	MW
DDOR142_GNA_0428701_Capacity	GNA_0428701_Capacity	DDOR142	Upper Lake 1101	Line Section		N/A	\$2,091	New	6/1/2022			10	Capacity	1.7	MW
DDOR144_GNA_0635908_Capacity	GNA_0635908_Capacity	DDOR144	Vaca Dixon 1101	Line Section		N/A	\$90	Existing	6/1/2022			10	Capacity	CC	MW
DDOR144_GNA_063591105_Capacity	GNA_063591105_Capacity	DDOR144	Vaca Dixon 1101	Line Section		N/A	\$90	Existing	6/1/2022			10	Capacity	3.3	MW
DDOR146_GNA_254541104_Capacity	GNA_254541104_Capacity	DDOR146	Ganso Bank 1	Line Section		N/A	\$2,611	Existing	6/1/2022			10	Capacity	CC	MW
DDOR149_GNA_043301106_Capacity	GNA_043301106_Capacity	DDOR149	MONROE 1106	Feeder		N/A	\$10,000	New	5/1/2024			8	Capacity	0.9	MW
DDOR149_GNA_0421501_Capacity	GNA_0421501_Capacity	DDOR149	MONROE 1106	Feeder		N/A	\$10,000	New	5/1/2024			8	Capacity	6.0	MW
DDOR149_GNA_042151102_Capacity	GNA_042151102_Capacity	DDOR149	MONROE 1106	Feeder		N/A	\$10,000	New	5/1/2024			8	Capacity	9.2	MW
DDOR149_GNA_042151103_Capacity	GNA_042151103_Capacity	DDOR149	MONROE 1106	Feeder		N/A	\$10,000	New	5/1/2024			8	Capacity	5.4	MW



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					General	Substation Equipment (\$000)	Primary Feeder/Line section (\$000)	New or Existing Equipment							
DDOR149_GNA_042151108_Capacity	GNA_042151108_Capacity	DDOR149	MONROE 1106	Feeder		N/A	\$10,000	New	5/1/2024			8	Capacity	2.6	MW
DDOR150_GNA_0834803_Capacity	GNA_0834803_Capacity	DDOR150	Stelling 1105	Line Section		N/A	\$4,368	New	6/1/2023			9	Capacity	CC	MW
DDOR150_GNA_083481111_Capacity	GNA_083481111_Capacity	DDOR150	Stelling 1105	Line Section		N/A	\$4,368	New	6/1/2023			9	Capacity	4.3	MW
DDOR151_GNA_2545302_Capacity	GNA_2545302_Capacity	DDOR151	Wahtoke Bank 1107	Line Section		N/A	\$412	New	6/1/2023			9	Capacity	CC	MW
DDOR151_GNA_254531107_Capacity	GNA_254531107_Capacity	DDOR151	Wahtoke Bank 1107	Line Section		N/A	\$412	New	6/1/2023			9	Capacity	1.0	MW
DDOR155_GNA_0240202_Capacity	GNA_0240202_Capacity	DDOR155	Glenwood 1101	Line Section		N/A	\$1,150	New	6/1/2022			10	Capacity	CC	MW
DDOR156_GNA_0434101_Capacity	GNA_0434101_Capacity	DDOR156	Calpella 1101	Feeder		N/A	\$4,858	Existing	6/1/2022			10	Capacity	CC	MW
DDOR158_GNA_0421401_Capacity	GNA_0421401_Capacity	DDOR158	Clear Lake 1101	Line Section		N/A	\$4,568	Existing	6/1/2022			10	Capacity	0.6	MW
DDOR160_GNA_103331101_Capacity	GNA_103331101_Capacity	DDOR160	Corning 1101	Line Section		N/A	\$56	Existing	5/1/2022			10	Capacity	2.2	MW
DDOR161_GNA_1033302_Capacity	GNA_1033302_Capacity	DDOR161	Corning 1103	Line Section		N/A	\$790	Existing	6/1/2022			10	Capacity	CC	MW
DDOR165_GNA_022571106_Reliability	GNA_022571106_Reliability	DDOR165	East Grand 1106	Line Section		N/A	\$130	New	5/1/2023			11	Reliability	CC	MW
DDOR168_GNA_1021701_Capacity	GNA_1021701_Capacity	DDOR168	Esquon Bank 1	Line Section		N/A	\$220	Existing	4/1/2022			10	Capacity	CC	MW
DDOR173_GNA_163741103_Capacity	GNA_163741103_Capacity	DDOR173	HERDLYN 1103	Line Section		N/A	\$1,166	Existing	6/1/2022			10	Capacity	1.1	MW
DDOR178_GNA_0226903_Capacity	GNA_0226903_Capacity	DDOR178	Millbrae 1105	Line Section		N/A	\$1,998	New	6/1/2022			10	Capacity	CC	MW
DDOR181_GNA_254461111_Capacity	GNA_254461111_Capacity	DDOR181	Newhall 1111	Line Section		N/A	\$1,417	Existing	3/31/2022			10	Capacity	CC	MW
DDOR183_GNA_0422102_Capacity	GNA_0422102_Capacity	DDOR183	Las Gallinas A 1106 line work	Line Section		N/A	\$596	Existing	6/1/2022			10	Capacity	2.1	MW
DDOR184_GNA_152901103_Capacity	GNA_152901103_Capacity	DDOR184	Marysville 1105	Line Section		N/A	\$508	New	6/1/2024			8	Capacity	1.7	MW
DDOR185_GNA_255371118_Capacity	GNA_255371118_Capacity	DDOR185	Oro Loma 1118	Line Section		N/A	\$7,568	Existing	6/1/2022			10	Capacity	CC	MW
DDOR193_GNA_042151111_Reliability	GNA_042151111_Reliability	DDOR193	Santa Rosa 1111	Feeder		N/A	\$312	Existing	5/1/2023			11	Reliability	0.7	MW
DDOR195_GNA_2540703_Capacity	GNA_2540703_Capacity	DDOR195	Stockdale 2112	Line Section		N/A	\$410	Existing	6/1/2022			10	Capacity	1.0	MW
DDOR196_GNA_2545601_Capacity	GNA_2545601_Capacity	DDOR196	Tupman Bank 1	Line Section		N/A	\$152	Existing	6/1/2022			10	Capacity	10.2	MW
DDOR202_GNA_0240401_Capacity	GNA_0240401_Capacity	DDOR202	Beresford 401	Feeder		N/A	\$45,017	Existing	4/1/2023			9	Capacity	CC	MW
DDOR203_GNA_1824601_Capacity	GNA_1824601_Capacity	DDOR203	Salinas 1104	Line Section		N/A	\$880	Existing	5/1/2023			9	Capacity	CC	MW
DDOR204_GNA_252301102_Capacity	GNA_252301102_Capacity	DDOR204	Camden 1102	Feeder		N/A	\$253	New	6/1/2022			10	Capacity	2.4	MW
DDOR209_GNA_013681111_Capacity	GNA_013681111_Capacity	DDOR209	EDES 1111	Feeder		N/A	\$836	Existing	6/1/2022			10	Capacity	2.6	MW
DDOR213_GNA_2527001_Capacity	GNA_2527001_Capacity	DDOR213	Kerman 1102	Line Section		N/A	\$30	New	6/1/2022			10	Capacity	CC	MW
DDOR214_GNA_252721103_Capacity	GNA_252721103_Capacity	DDOR214	Kern Oil 1103	Feeder		N/A	\$479	New	6/1/2023			9	Capacity	CC	MW
DDOR215_GNA_252721110_Capacity	GNA_252721110_Capacity	DDOR215	Kern Oil 1108	Feeder		N/A	\$1,420	Existing	6/1/2023			9	Capacity	CC	MW
DDOR215_GNA_252721108_Capacity	GNA_252721108_Capacity	DDOR215	Kern Oil 1108	Feeder		N/A	\$1,420	Existing	6/1/2023			9	Capacity	CC	MW
DDOR216_GNA_252721116_Capacity	GNA_252721116_Capacity	DDOR216	Kern Oil 1116	Feeder		N/A	\$64	Existing	6/1/2023			9	Capacity	1.3	MW
DDOR217_GNA_252241116_Reliability	GNA_252241116_Reliability	DDOR217	Kingsburg 1117	Feeder		N/A	\$640	Existing	5/1/2023			9	Reliability	1.3	MW
DDOR217_GNA_252241116_Capacity	GNA_252241116_Capacity	DDOR217	Kingsburg 1117	Feeder		N/A	\$640	Existing	5/1/2023			9	Capacity	1.8	MW
DDOR221_GNA_012091110_Capacity	GNA_012091110_Capacity	DDOR221	Oakland J 1114 Circuit Extension	Feeder		N/A	\$3,582	New	6/1/2022			10	Capacity	CC	MW
DDOR224_GNA_255371106_Capacity	GNA_255371106_Capacity	DDOR224	ORO LOMA 1106 Reconductor	Line Section		N/A	\$3,002	Existing	5/1/2023			9	Capacity	CC	MW
DDOR228_GNA_252341106_Capacity	GNA_252341106_Capacity	DDOR228	Reedley 1106	Feeder		N/A	\$111	New	6/1/2023			9	Capacity	CC	MW
DDOR229_GNA_252861104_Capacity	GNA_252861104_Capacity	DDOR229	Rio Bravo 1104	Feeder		N/A	\$602	Existing	6/1/2022			10	Capacity	CC	MW
DDOR230_GNA_252891114_Capacity	GNA_252891114_Capacity	DDOR230	Schindler 1114	Feeder		N/A	\$390	Existing	6/1/2023			9	Capacity	3.2	MW
DDOR231_GNA_252062112_Capacity	GNA_252062112_Capacity	DDOR231	Shepherd 2112	Feeder		N/A	\$45,018	New	4/2/2023			9	Capacity	CC	MW
DDOR234_GNA_162881106_Capacity	GNA_162881106_Capacity	DDOR234	Tracy 1106	Line Section		N/A	\$44,676	Existing	4/25/2022			10	Capacity	CC	MW
DDOR236_GNA_253731110_Capacity	GNA_253731110_Capacity	DDOR236	West Fresno 1110	Feeder		N/A	\$169	Existing	6/1/2022			10	Capacity	CC	MW
DDOR239_GNA_103251101_Capacity	GNA_103251101_Capacity	DDOR239	Tres Vias 900	Line Section		N/A	\$44,652	Existing	4/1/2022			10	Capacity	0.6	MW
DDOR240_GNA_022011113_Resiliency	GNA_022011113_Resiliency	DDOR240	Mission (SF X) 1113	Feeder		N/A	\$1,400	Existing	10/1/2023			9	Resiliency	1.4	MW
DDOR242_GNA_042011108_Resiliency	GNA_042011108_Resiliency	DDOR242	San Rafael 1108	Line Section		N/A	\$1,686	Existing	10/1/2022			10	Resiliency	0.4	MW
DDOR243_GNA_083871105_Reliability	GNA_083871105_Reliability	DDOR243	FMC 1101(to become FMC 1105)	Feeder		N/A	\$1,700	New	6/1/2023			9	Reliability	5.6	MW

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					General	Substation Equipment (\$000)	Primary Feeder/Line section (\$000)	New or Existing Equipment							
DDOR244_GNA_254762102_Reliability	GNA_254762102_Reliability	DDOR244	Rosedale 2102	Line Section		N/A	\$400	Existing	1/1/2022			10	Reliability	3.0	MW
DDOR247_GNA_042481101_Reliability	GNA_042481101_Reliability	DDOR247	Ignacio 1101	Line Section		N/A	\$420	Existing	10/1/2023			11	Reliability	2.9	MW
DDOR248_GNA_182671112_Reliability	GNA_182671112_Reliability	DDOR248	Santa Maria 1112	Line Section		N/A	\$72	New	10/1/2022			10	Reliability	2.3	MW
DDOR249_GNA_255002101_Reliability	GNA_255002101_Reliability	DDOR249	Avenal 2101	Line Section		N/A	\$65	New	1/1/2022			10	Reliability	CC	MW
DDOR250_GNA_013111107_Resiliency	GNA_013111107_Resiliency	DDOR250	San Leandro U 1107	Line Section		N/A	\$200	New	1/1/2023			11	Resiliency	0.4	MW
DDOR251_GNA_163722108_Reliability	GNA_163722108_Reliability	DDOR251	Mosher 2108	Line Section		N/A	\$850	New	1/1/2023			11	Reliability	4.9	MW
DDOR252_GNA_062041102_Reliability	GNA_062041102_Reliability	DDOR252	Davis 1102	Line Section		N/A	\$200	New	10/1/2022			10	Reliability	2.1	MW
DDOR253_GNA_063172101_Reliability	GNA_063172101_Reliability	DDOR253	Madison 2101	Line Section		N/A	\$105	New	1/1/2022			10	Reliability	CC	MW
DDOR254_GNA_063642106_Reliability	GNA_063642106_Reliability	DDOR254	Peabody 2106	Line Section		N/A	\$226	Existing	6/1/2022			10	Reliability	CC	MW
DDOR255_GNA_153761102_Reliability	GNA_153761102_Reliability	DDOR255	Catlett 1102	Line Section		N/A	\$4,460	Existing	11/1/2022			10	Reliability	6.0	MW
DDOR259_GNA_162991101_Capacity	GNA_162991101_Capacity	DDOR259	Corral 1101	Line Section		N/A	\$2,518	New	5/15/2022			10	Capacity	1.6	MW
DDOR264_GNA_012091104_Capacity	GNA_012091104_Capacity	DDOR264	Oakland J 1101 & Oakland J 1104	Line Section		N/A	\$616	Existing	3/31/2023			9	Capacity	CC	MW
DDOR267_GNA_182811102_Capacity	GNA_182811102_Capacity	DDOR267	Santa Maria 1111	Line Section		N/A	\$1,690	Existing	12/30/2022			10	Capacity	2.8	MW
DDOR268_GNA_022031104_Capacity	GNA_022031104_Capacity	DDOR268	Potrero A 1106	Line Section		N/A	\$3,545	Existing	6/1/2023			9	Capacity	CC	MW
DDOR043_GNA_2531601_Capacity_RF	GNA_2531601_Capacity_RF	DDOR043	Huron Bank 1	Bank		\$6,569	N/A	Existing	12/1/2022			10	Capacity	CC	MW
DDOR043_GNA_2531601_Capacity	GNA_2531601_Capacity	DDOR043	Huron Bank 1	Bank		\$6,569	N/A	Existing	12/1/2022			10	Capacity	CC	MW
DDOR109_GNA_2546801_Capacity_RF	GNA_2546801_Capacity_RF	DDOR109	Blackwell Bank 1	Bank		\$7,500	N/A	Existing	6/1/2025			7	Capacity	CC	MW

Questions / Calculations	Descriptions and Assumptions	Used to Calculate Grid Need Certainty?	Score	Data Source
Q1: DDOR ID: Project Name	DDOR ID is used to map to Prioritization Metric workbooka. Project name is used by Distribution Engineers when answering the questionnaire. No score assigned.	No	N/A	DIDF Candidate Deferrals
Q2: Is the area served by the project within two miles of (select one): 0 freeway or highway 1 freeway or highway 2 freeways or highways 3 freeways or highways	Potential EV charging stations can be added to nearby freeway(s). Score ranging from 0 to 10.	Yes	0 freeways or highways - 0 1 freeway or highway - 3 2 freeways or highways - 6 3 or more freeways or highways -10	Distribution Engineers
Q3: Have you received an inquiry about new load growth application (e.g. fast charging connection) in the area that is not yet reflected in the load forecast?	Potential new load growth in the area. Binary score, with either 0 or 10. A "Yes" response is assigned with "10" while a "No" response receives a "0" scoring.	Yes	Yes - 10 No - 0	Distribution Engineers
Q4: If you've answered "Yes" in the previous question about new load growth application, please specify the type of load(s) below	Follow up question to Q3a to specify the load type if there's any new load interest. No score assigned.	No	N/A	Distribution Engineers
Q5a-e: What type of project is planned - a.New Substation, b.New Substation Transformer, c.Replaced Substation Transformer, d.New Circuit Breaker, e.Line Work Creates Tie?	Identifies project type and planned work. Scale ranging from 0 to 10. The highest project type score will supercede lower scores. For example, if a project's planned work includes new substation and new circuit breaker, the new substation score will supercede the new circuit breaker score.	Yes	a. New Substation - 10 b. New Substation Transformer - 8 c. Replaced Substation Transformer - 6 d. New Circuit Breaker - 4 e. Line Work Creates Tie - 2 or None - 0	Distribution Engineers
Q6: What is the asset health risk based on condition for the project and all grid need locations	Indicates asset health risk level, ranging from low, medium, and high, assigned with scoring 3, 6, and 10, respectively. If one project has multiple grid needs, pick the need with the highest level of risk for the project. For instance, if one project has three grid needs, with risk levels of "Low, Med, High", we select "High" as the overall asset health risk level for the project.	Yes	High - 10 Med - 6 Low - 3	Transformer Bank Replacement List
Overall Grid Need Certainty Score	A negated, summed score to indicate an asset's certainty level. A higher score indicates a higher certainty level, to be implemented as part of the Prioritization Metrics calculations in Appendix C. Scale ranging from -40 to 0 potentially.	Final Result	Potential range from -40 to 0. The 4 submetrics are summed up and negated	Scores for Q2, Q3, Q4 and Q6

Q1: DDOR ID: Project Name		Q2: Is the area served by the project within two miles of (select one):	Q3: Have you received an inquiry about new load growth application (e.g. fast charging connection) in the area that is not yet reflected in the load forecast?	Q4: If you've answered "Yes" in the previous question about new load growth application, please specify the type of load(s) below	Q5a: What type of project is planned - New Substation?	Q5b:What type of project is planned - New Substation Transformer?	Q5c: What type of project is planned - Replaced Substation Transformer?	Q5d: What type of project is planned - New Circuit Breaker?	Q5e: What type of project is planned - Line Work Creates Tie?	Q5: What is the likelihood of asset health risk based on condition for the project and all grid need locations	Q2 Score (Freeway Proximity)	Q3 Score (Potential New Load Growth)	Q5 Score (Project Type)	Q6 Score (Asset Health Risk)	Overall Grid Need Certainty Score
DDOR1034: Tulucay Bank 4	3 or more freeways or highways	Yes	Commercial;Industrial;Residential;	No	Yes	No	Yes	Yes	Yes	HIGH	10	10	8	10	-38
DDOR079: Gabilan Bank 2	1 freeway or highway	Yes	EV (e.g., DC Fast Charging);	No	Yes	No	Yes	Yes	Yes	HIGH	3	10	8	10	-31
DDOR091: Chualar Bank 1	1 freeway or highway	Yes	Cannabis;	Yes	Yes	No	Yes	Yes	Yes	HIGH	3	10	10	10	-33
DDOR1026: Ravenswood Substation	3 or more freeways or highways	Yes	EV (e.g., DC Fast Charging);Residential;Commercial;Industrial;	Yes	Yes	No	Yes	Yes	Yes	HIGH	10	10	10	10	-40
DDOR1027: Millbrae Substation	2 freeways or highways	Yes	EV (e.g., DC Fast Charging);Residential;Commercial;Industrial;	No	Yes	No	Yes	Yes	Yes	HIGH	6	10	8	10	-34
DDOR1001: Camden 1106	1 freeway or highway	No	0	No	No	No	Yes	Yes	Yes	HIGH	3	0	4	10	-17
DDOR1005: San Joaquin Bank 2	0 freeways or highways	No	0	No	No	Yes	Yes	Yes	Yes	MED	0	0	6	6	-12
DDOR1008: Old River Bank 2	1 freeway or highway	No	0	No	No	Yes	No	No	No	HIGH	3	0	6	10	-19
DDOR1029: 7th Standard Bank 2	1 freeway or highway	No	0	No	Yes	No	Yes	Yes	Yes	LOW	3	0	8	3	-14
DDOR1030: Famoso Bank 1	1 freeway or highway	No	0	No	Yes	No	Yes	Yes	Yes	HIGH	3	0	8	10	-21
DDOR1031: Semitropic Bank 4	0 freeways or highways	No	0	No	Yes	No	Yes	Yes	Yes	HIGH	0	0	8	10	-18
DDOR1032: Tevis Bank 1	0 freeways or highways	No	0	No	Yes	No	Yes	Yes	Yes	HIGH	0	0	8	10	-18
DDOR066: Vasona 1109	2 freeways or highways	No	0	No	No	No	Yes	Yes	Yes	LOW	6	0	4	3	-13
DDOR102: Montague Bank 2	2 freeways or highways	Yes	Data Center;	No	No	Yes	No	No	No	MED	6	10	6	6	-28
DDOR1007: Carlotta Bank 2	1 freeway or highway	Yes	Cannabis;EV (e.g., DC Fast Charging);	No	Yes	No	No	No	No	HIGH	3	10	8	10	-31
DDOR105: Lockeford Bank 5	2 freeways or highways	No	0	No	No	Yes	No	No	No	HIGH	6	0	6	10	-22
DDOR109: Blackwell Bank 1	1 freeway or highway	No	0	No	No	Yes	No	No	No	HIGH	3	0	6	10	-19
DDOR1033: Weber Bank 7	3 or more freeways or highways	Yes	Industrial;Major industrial park attracting businesses;	No	Yes	No	Yes	Yes	Yes	LOW	10	10	8	3	-31