Resource Adequacy Deliverability for Distributed Generation

Revised DG Deliverability Assessment Results

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1 Introduction

This report presents revised distributed generation ("DG") deliverability assessment results that update and replace the study results issued earlier by the ISO on March 22, 2013.

Section 2 of this paper explains the reasons the ISO is issuing these revised results. Section 3 provides background information about the ISO's proposed process for providing resource adequacy deliverability status to DG. Section 4 provides a high level summary of the study results by participating transmission owner (PTO) service territory. The study methodology used by the ISO in conducting the annual DG deliverability assessment is described in section 5.

The detailed results are contained in worksheets provided in section 6 of this report. For each PTO service territory, two worksheets could be produced. One is a "Potential DGD worksheet" which includes those nodes at which Potential DGD is available for assignment of deliverability status to DG resources connected below those nodes. The second possible worksheet is a "No Potential DGD worksheet" which lists those nodes at which no Potential DGD is available for assignment due to deliverability constraints. For the SCE and PG&E service territories, both worksheets were produced. For the SDG&E service territory only the "No Potential DGD worksheet" was produced.

2 Explanation for issuing revised results

The ISO is issuing these revised results for the following three reasons.

First, the ISO recently received updated data from SCE increasing the amount of existing energy-only DG in the SCE service territory.

Second, the ISO removed potential DG deliverability from SCE's "VICTOR" node because it was determined to be contributing to the Lugo 500/230 kV transformer bank overload. Upgrades to

mitigate this constraint have been removed from Queue Cluster 1&2 Phase II studies and Queue Cluster 3&4 Phase II studies in accordance with the ISO's June 8, 2012 technical bulletin[1].

Third, during the stakeholder process for complying with FERC's November 16, 2012 order, some stakeholders expressed concern that the ISO limits the nodal amounts of available potential DG deliverability determined in the DG deliverability assessment to the amounts specified in the base portfolio utilized in the ISO's annual transmission planning process. These stakeholders pointed out that if the DG deliverability assessment determines that transmission capacity on the ISO grid can support larger amounts at certain nodes, and if there are DG facilities at those nodes that want to obtain deliverability status through this process, the ISO should make the larger amounts available for those DG facilities. The ISO had limited the amount of available DG deliverability to the transmission planning base portfolio amounts based on two considerations: (1) the understanding that these amounts were aligned with the expected procurement of DG resources by load-serving entities and therefore sufficient for the current cycle, and (2) a conservative understanding of engineering study concerns. With regard to consideration (1), with the FERC-directed adoption of a deliverability status assignment process performed by the utility distribution companies and metered subsystems based on their interconnection processes, restricting the available potential DG deliverability to the base portfolio amounts may not be sufficient to reflect the amount of active and eligible DG resources in the interconnection queues. With regard to consideration (2), in proposing to limit the amount of available DG deliverability to the base portfolio amounts, the ISO conservatively assumed that making larger amounts available could potentially cause problematic inconsistencies, from an engineering perspective, between the assignment of deliverability status under this process and the assumptions of ISO's transmission planning process. Further assessment of the matter revealed, however, that limiting the nodal amounts of potential DG deliverability made available to utility distribution companies and metered subsystems to the transmission planning base portfolio amounts would not be necessary to preserve the required planning consistency.

3 Background

On September 18, 2012 the ISO filed its proposed tariff amendment to implement a streamlined process for providing resource adequacy deliverability status to distributed generation ("DG") resources[2] from transmission capacity identified in the ISO's annual transmission plan. One part of

[1] The Revised Technical Bulletin: Deliverability Requirements for Queue Clusters 1-4 and Determination of Net Qualifying Capacity can be found at the following link: http://www.caiso.com/Documents/RevisedTechnicalBulletin-DeliverabilityRequirements-QueueClusters1-4_Determination-NetQualifyingCapacity.pdf.

[2] For purposes of this study, DG resources are generation resources connected to utility distribution systems. The ISO recognizes that, in some contexts, some parties use the term "distributed generation" to mean

this proposed process involves the ISO annually performing a DG Deliverability assessment to determine MW amounts of potential DG deliverability ("Potential DGD") that can be used to assign deliverability status to DG resources connected below various network nodes on the ISO grid, without requiring additional network upgrades and without adversely affecting the deliverability status of existing generation or proposed generation in the interconnection queue. The proposal anticipated that the ISO would begin the first annual DG deliverability assessment in November 2012 and complete it in the first quarter of 2013. The proposal also specified that the ISO would publish the DG deliverability assessment results, specifically the nodal amounts of Potential DGD, following completion of the study.

On November 16 FERC issued its order on the DG deliverability proposal. The November 16 order did not modify the design of the annual DG deliverability assessment that the ISO would perform to determine nodal amounts of Potential DGD. As a result, the ISO began the annual DG deliverability assessment in November, completed it in March, and published initial results on March 22. For reasons previously discussed in section 2, the ISO is issuing revised results in this report.

4 Summary of DG deliverability assessment results

The revised DG deliverability assessment results indicate that a total of 1,410.06 megawatts of Potential DGD is available at nodes on the ISO grid for assignment of deliverability status to DG resources connected or requesting interconnection below those nodes. The available Potential DGD is entirely in the SCE and PG&E service territories; none is available in the SDG&E territory. The total Potential DGD for each PTO service territory is summarized in the following table. Of these total quantities, some amounts of Potential DGD at specific nodes will be available to municipal utility distribution companies (UDC) for assignment of deliverability status to DG resources on their distribution systems.

PTO service territory	Total MW of Potential DGD
SCE	892.45
SDG&E	0.00
PG&E	517.61
Total	1,410.06

resources of certain technology types or below certain size thresholds, and may even include such categories of resources when they are connected to the transmission system. For purposes of this study, however, the term "distributed generation" encompasses all generation resources connected to utility distribution systems, without regard to size or resource type, and only such resources.

The detailed nodal amounts of Potential DGD within each PTO service territory are provided in worksheets in section 6. The following three subsections provide a summary of the revised results for each PTO service territory.

4.1 SCE service territory

There were 57 nodes studied for Potential DGD in the SCE service territory.[3] The study determined that a total of 892.45 megawatts of Potential DGD is available at 29 of the 57 nodes. There is none available at the remaining 28 nodes, either because (i) there was no DG designated at these nodes in the base portfolio utilized in the ISO's annual transmission planning process and there was no energy-only interconnection requests in a WDAT/Rule 21 queue (5 nodes) or (ii) because of deliverability constraints (23 nodes).

In the SCE service territory, there are three ISO grid nodes with Potential DGD where both SCE and municipal utility load is served off of their respective distribution systems.[4] These three nodes are "VISTA" with 82.4 MW of Potential DGD (load shares: SCE 45% (37.08 MW of Potential DGD), Riverside 48% (39.55 MW of Potential DGD), and Colton 7% (5.77 MW of Potential DGD), "MIRA LOMA" with 16.51 MW of Potential DGD (load shares: SCE 98% (16.18 MW) and Corona 2% (0.33 MW)), and "LAGUBELL" with 4.46 MW of Potential DGD (load shares: SCE 66% (2.94 MW) and Vernon 34% (1.52 MW)). At such nodes, both SCE and the municipal utility could assign deliverability status to DG resources interconnected to their respective distribution systems. There is one additional ISO grid node—the "LEWIS" node with 19.0 MW of Potential DGD—where only municipal load is served by the city of Anaheim.

4.2 SDG&E service territory

There were 73 nodes studied for Potential DGD in the SDG&E service territory (see footnote 3). There is no Potential DGD available at any of these nodes. This is because every node in SDG&E contributes to the Path 43 (North of SONGS) deliverability constraint that has been identified in generation interconnection studies. In accordance with the ISO's June 8, 2012 technical bulletin, upgrades to relieve the constraint have been removed from Queue Cluster 1&2 Phase II studies and Queue Cluster 3&4 Phase II studies and therefore, pursuant to the FERC-approved methodology for the DG deliverability assessment, the available Potential DGD at nodes that impact that constraint is zero.

[3] These are the nodes at which DG is designated in any of the resource portfolios used in the ISO's 2012-2013 Transmission Planning Process. This is a subset of the total nodes represented in the power flow model in the SCE service territory. This same situation also applies in the case of PG&E and SDG&E.
[4] The load represented is based on the CEC's 2013 coincident peak demand forecast.

4.3 PG&E service territory

There were 496 nodes studied for Potential DGD in the PG&E service territory (see footnote 3). A total of 517.61 megawatts of Potential DGD is available for assignment of deliverability status to DG resources at 95 of the 496 nodes. There is none available at the remaining 401 nodes, either because (i) there was no DG designated at these nodes in the base portfolio utilized in the ISO's annual transmission planning process and there was no energy-only interconnection requests in a WDAT/Rule 21 queue (118 nodes) or (ii) because of deliverability constraints that require Delivery Network Upgrades in the most recently completed Phase I or Phase II Interconnection Study (283 nodes).

In the PG&E service territory, there are 13 ISO grid nodes with Potential DGD where only municipal utility load is served. One of these is the "PLO ALTO" node with 24.30 MW of Potential DGD (Northern California Power Agency is the UDC). The other 12 are nodes where Silicon Valley Power load is served and have potential DGD – "Homestea" (0.77MW), "Kenneth" (0.28MW), "KRS" (1.12 MW), "LAF T2" (2.17MW), "Mission" (2.10 MW), "Northwes" (1.82 MW), "Palm" (0.56 MW), "DVRPP 1M" (1.82 MW), "Serra" (1.12 MW), "Uranium" (2.24 MW), "Walsh" (2.24 MW), and "Zeno" (0.70 MW). There were no ISO grid nodes with Potential DGD at which both PG&E and municipal utility load is served.

5 DG deliverability assessment methodology

This section steps through the study methodology used by the ISO in conducting the annual DG deliverability assessment. In section 5.1, a flowchart is provided illustrating the steps described here. Throughout this description references are made to columns of the detailed worksheets attached to this report. Explanation of the column headings in these worksheets is provided in sections 5.2 and 5.3.

The assessment results are organized into either one or two worksheets for each PTO service territory depending on whether non-zero amounts of Potential DGD is available for assignment or whether it is known that certain nodes contribute to deliverability constraints. If Potential DGD is available for assignment at one or more nodes in a PTO service territory, a "Potential DGD worksheet" is produced identifying the nodes with non-zero amounts[5]. If DG at a node contributes to deliverability constraints that require upgrades in generation interconnection studies or for which upgrades have been removed in Queue Cluster 1 (QC1) through Queue Cluster 4 (QC4) Phase II studies, then there is no Potential DGD at the node and this result is reported in a "No Potential

[5] This worksheet also includes nodes with zero amounts of Potential DGD where there was (i) zero DG designated in the base portfolio utilized in the ISO's annual transmission planning process and (ii) non-zero DG designated in at least one of the other renewable portfolios utilized in the ISO's annual transmission planning process and (iii) zero energy-only interconnection requests in a WDAT/Rule 21 queue.

DGD worksheet" for that PTO service territory. Thus, for the SCE and PG&E service territories, both the "Potential DGD worksheet" and "No Potential DGD worksheet" were produced. For the SDG&E service territory only the "No Potential DGD worksheet" was produced. These five worksheets are provided in section 6.

In conducting the annual DG deliverability assessment, the ISO models the existing transmission system and new additions and upgrades that have been approved in prior Transmission Planning Process ("TPP") cycles, plus existing generation and certain new generation in the ISO queue and associated upgrades[6]. To identify each DG network node (Columns A and B) the ISO identifies each network node where a DG quantity is specified in the 33% renewable portfolios utilized in the ISO's annual transmission planning process (Column C). However, if a node is already known to contribute to deliverability constraints that require network upgrades in the generation interconnection studies or for which the network upgrades have been identified and then removed in the QC1 to QC4 Phase II interconnection studies, then the target DG quantity at such a node is set to zero. Such nodes are listed in the "No Potential DGD worksheet" for each PTO service territory with Potential DGD (Column M) set to zero and information on the deliverability constraint provided (Column Q).

The remainder of this discussion pertains only to those nodes for which the DG modeled does not contribute to deliverability constraints that require network upgrades in the generation interconnection studies or for which the network upgrades have been identified and then removed in the QC1 to QC4 Phase II interconnection studies.

For the remaining nodes, the ISO starts with the greater of the base portfolio DG amount (Column C) and the WDAT/Rule 21 non-NEM amount (Column D) and adds the amount of existing non-NEM DG (Column E). At its discretion, the ISO then increases the DG amounts to the highest level among all of the 33% renewable portfolios utilized in the ISO's annual transmission planning process, which becomes the DG modeled (Column G)[7]. It is on the resulting amount at each node then that the ISO performs the deliverability assessment to determine the megawatts of deliverable DG at each of these nodes (Column H). The deliverability of WDAT projects requesting full capacity deliverability status (Column J) and prior commitment (Column K)[8] is preserved.

The Potential DGD that results at each node is represented by the values listed in Column M. The calculation of Potential DGD (Column M) is performed as follows:

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[6] The network upgrades associated with the new generator projects in the queue are modeled if the upgrade is under construction or has received regulatory approval.

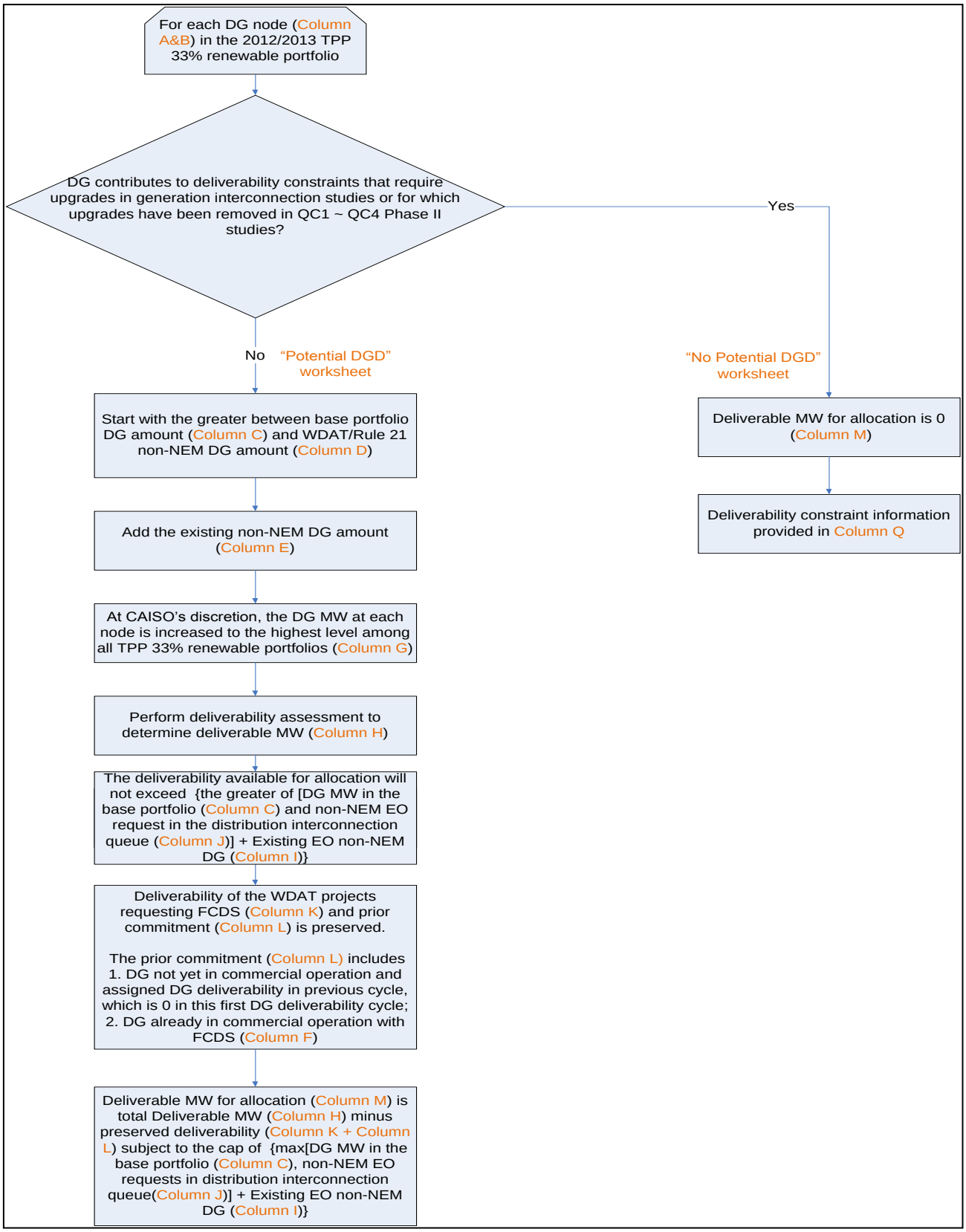
[7] Consistent with the ISO's proposed tariff amendment, the study may assess deliverability for even larger nodal quantities of DG to give developers, load-serving entities, regulatory authorities, and other stakeholders with additional information on the potential for developing additional deliverable DG resources at a particular node.

[8] The prior commitment (Column K) includes (i) DG not yet in commercial operation and assigned DG deliverability in the previous cycle (which, of course, is zero in this first DG deliverability cycle) and (ii) DG already in commercial operation with full capacity deliverability status (Column F).

Min (Max (Column C, Column J) + Column I, Column H – Column L – Column K))

A flowchart illustrating the study methodology logic discussed above is provided in section 5.1.

5.1 DG Deliverability Assessment Methodology Flowchart



5.2 Explanation of column headings for "Potential DGD" worksheets

The following is a listing of the column headings used in the "Potential DGD" worksheet along with a brief explanation of each.

A. **DG Node—Substation Name**. Name of the substation representing the DG node.
B. **DG Node—Transmission Level kV**. The transmission level voltage at the transmission/distribution interface.
C. **DG in Base Portfolio**. The megawatts of DG at the node in the base portfolio utilized in the ISO's annual transmission planning process.
D. **WDAT/Rule 21 non-NEM DG**. The total megawatts of non-NEM DG at the node in the WDAT or Rule 21 queue.
E. **Existing non-NEM DG**. The total megawatts of non-NEM DG at the node already in commercial operation (either with Full Capacity Deliverability Status or with Energy Only Deliverability Status).
F. **Existing FCDS non-NEM DG**. The total megawatts of non-NEM DG at the node already in commercial operation with Full Capacity Deliverability Status.
G. **DG Modeled**. The total megawatts of DG modeled at the node in the DG deliverability assessment. At the ISO's discretion, the DG modeled at each node is increased to the highest level among all of the 33% renewable portfolios utilized in the ISO's annual transmission planning process.
H. **DG Deliverable**. The total megawatts of DG determined to be deliverable at the node.
I. **Existing EO non-NEM DG**. The total megawatts of non-NEM DG already in commercial operation with Energy Only Deliverability Status.
J. **WDAT EO Request.** The total megawatts of non-NEM DG at the node in the WDAT queue that have requested Energy Only Deliverability Status and not assigned Full Capacity Deliverability Status in the previous DG deliverability cycle.
K. **WDAT FC Request**. The total megawatts of non-NEM DG at the node in the WDAT queue that have requested Full Capacity Deliverability Status and not assigned Full Capacity Deliverability Service in the previous DG deliverability cycle.
L. **Prior Commitment**. This includes (i) DG not yet in commercial operation and assigned Full Capacity Deliverability Status in previous DG deliverability cycle (which, of course, is zero in this first DG deliverability cycle) and (ii) DG in commercial operation with Full Capacity Deliverability Status.
M. **Potential DGD**. The total megawatt amount of Potential DGD at the node available for assignment of deliverability status to DG resources. Potential DGD is calculated as Max (0, Min (Max (Column C, Column J) + Column I, Column H – Column L – Column K)).

5.3 Explanation of column headings for "No Potential DGD" worksheets

The following is a listing of the column headings used in the "No Potential DGD" worksheet along with a brief explanation of each.

A. **DG Node—Substation Name**. Name of the substation representing the DG node.
B. **DG Node—Transmission Load**. The transmission level voltage at the transmission/distribution interface.
C. **DG in Base Portfolio**. The megawatts of DG at the node in the base portfolio utilized in the ISO's annual transmission planning process.
M. **Potential DGD**. The value for all nodes is zero in this worksheet.
Q. **Notes**. Additional information provided regarding constraints.

6 Detailed DG deliverability assessment results

For each PTO area, two worksheets could be produced. One is a "Potential DGD worksheet" which includes those nodes at which Potential DGD (i.e., non-zero amounts) is available for assignment of deliverability status to DG resources (see Column M). This worksheet may also include nodes with zero amounts of Potential DGD where there was (i) zero DG designated in the base portfolio utilized in the ISO's annual transmission planning process and (ii) non-zero DG designated in at least one of the other renewable portfolios utilized in the ISO's annual transmission planning process and (iii) zero energy-only interconnection requests in a WDAT/Rule 21 queue.

The second possible worksheet is a "No Potential DGD worksheet" which lists those nodes at which no Potential DGD is available for assignment to DG resources due to deliverability constraints.

For the SCE and PG&E service territories, both worksheets were produced. For the SDG&E service territory only the "No Potential DGD worksheet" was produced.

The worksheets for each PTO service territory are contained in sections 6.1 through 6.5. There are five worksheets in total.

6.1 "Potential DGD" worksheet for SCE service territory

"Potential DGD" worksheet for the SCE service territory (all values in Megawatts unless otherwise noted)

A	B	C	D	E	F	G	H	I	J	K	L	M
DG Node		DG in Base Portfolio	WDAT/Rule 21 non-NEM DG	Existing non-NEM DG	Existing FCDS non-NEM DG	DG Modeled	DG Deliverable	Existing EO non-NEM DG	WDAT EO Request	WDAT FC Request	Prior Commitment	Potential DGD
Substation	Transmission Level KV											
ANTELOPE	66	8.92	0.00	0.00	0.00	94.73	94.73	0.00	0.00	0.00	0.00	8.92
CORUM	66	0.00	0.00	0.00	0.00	6.02	6.02	0.00	0.00	0.00	0.00	0.00
PALMDALE	66	2.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	2.00
ROSAMOND	66	20.00	0.00	0.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	20.00
GOLDTOWN	66	15.00	15.00	0.00	0.00	15.00	15.00	0.00	5.00	10.00	0.00	5.00
VALLEY	500	6.16	552.10	17.17	17.17	601.88	601.88	0.00	44.60	507.50	17.17	44.60
MIRAGE	230	0.00	0.00	0.00	0.00	84.67	84.67	0.00	0.00	0.00	0.00	0.00
VISTA	230	80.00	50.40	402.76	400.36	599.92	599.92	2.40	50.40	0.00	400.36	82.40
SAN BERNADINO	115	0.00	1.30	22.40	4.90	42.84	42.84	17.50	1.30	0.00	4.90	18.80
DELAMO	230	0.00	9.58	37.41	0.00	112.78	112.78	37.41	9.58	0.00	0.00	46.99
EL NIDO	230	0.00	56.90	0.00	0.00	56.90	56.90	0.00	56.90	0.00	0.00	56.90
ETIWANDA	230	0.00	8.24	99.46	78.46	156.95	156.95	21.00	8.24	0.00	78.46	29.24
HINSON	230	0.00	1.20	58.18	58.18	59.38	59.38	0.00	1.20	0.00	58.18	1.20
LA FRESA	230	0.00	1.90	2.24	2.24	40.75	40.75	0.00	1.90	0.00	2.24	1.90
LITEHIPE	230	0.00	12.35	50.00	1.00	68.34	68.34	49.00	12.35	0.00	1.00	61.35
PADUA	230	0.00	6.97	12.06	11.81	86.29	86.29	0.25	6.97	0.00	11.81	7.22
CENTER	230	0.00	4.65	68.31	68.31	148.92	148.92	0.00	4.65	0.00	68.31	4.65
EAGLROCK	230	0.00	7.50	0.00	0.00	26.57	26.57	0.00	7.50	0.00	0.00	7.50
GOULD	230	0.00	0.00	0.00	0.00	1.79	1.79	0.00	0.00	0.00	0.00	0.00
LA CIENEGA	230	0.00	0.15	4.74	4.74	26.05	26.05	0.00	0.15	0.00	4.74	0.15
MESA	230	0.00	0.00	0.85	0.85	78.84	78.84	0.00	0.00	0.00	0.85	0.00
RIO HONDO	230	0.00	0.00	2.72	2.72	104.73	104.73	0.00	0.00	0.00	2.72	0.00

"Potential DGD" worksheet for the SCE service territory (all values in Megawatts unless otherwise noted)

A	B	C	D	E	F	G	H	I	J	K	L	M
DG Node		DG in Base Portfolio	WDAT/Rule 21 non-NEM DG	Existing non-NEM DG	Existing FCDS non-NEM DG	DG Modeled	DG Deliverable	Existing EO non-NEM DG	WDAT EO Request	WDAT FC Request	Prior Commitment	Potential DGD
Substation	Transmission Level KV											
MIRA LOMA	230	0.99	6.01	127.54	117.04	244.16	244.16	10.50	6.01	0.00	117.04	16.51
WALNUT	230	1.60	3.60	56.35	54.75	160.27	160.27	1.60	3.60	0.00	54.75	5.20
CHINO	230	2.50	8.99	68.27	65.27	237.05	237.05	3.00	8.99	0.00	65.27	11.99
BARRE	230	3.56	0.00	47.00	47.00	232.57	232.57	0.00	0.00	0.00	47.00	3.56
LAGUBELL	230	4.46	3.53	155.60	155.60	349.40	349.40	0.00	3.53	0.00	155.60	4.46
ALMITO	230	7.04	6.25	0.00	0.00	17.94	17.94	0.00	6.25	0.00	0.00	7.04
VILLA PARK	230	15.55	0.00	4.10	4.10	112.71	112.71	0.00	0.00	0.00	4.10	15.55
LEWIS	230	19.00	0.00	235.44	235.44	289.44	289.44	0.00	0.00	0.00	235.44	19.00
JOHANNA	230	74.23	0.10	0.01	0.01	77.50	77.50	0.00	0.10	0.00	0.01	74.23
ELLIS	230	76.52	0.00	0.00	0.00	76.52	76.52	0.00	0.00	0.00	0.00	76.52
OLINDA	230	99.00	0.00	35.92	35.92	217.04	217.04	0.00	0.00	0.00	35.92	99.00
SANTIAGO	230	160.56	13.38	6.22	6.22	211.86	211.86	0.00	13.38	0.00	6.22	160.56

Total Potential DGD =	892.45

6.2 "Potential DGD" worksheet for PG&E service territory

"Potential DGD" worksheet for the PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	D	E	F	G	H	I	J	K	L	M
DG Node		DG in Base Portfolio	WDAT/Rule 21 non-NEM DG	Existing non-NEM DG	Existing FCDS non-NEM DG	DG Modeled	DG Deliverable	Existing EO non-NEM DG	WDAT EO Request	WDAT FC Request	Prior Commitment	Potential DGD
Substation	Transmission Level KV											
Homestea	60	0.77	0.00	0.00	0.00	1.10	1.10	0.00	0.00	0.00	0.00	0.77
Kenneth	60	0.28	0.00	0.00	0.00	0.40	0.40	0.00	0.00	0.00	0.00	0.28
KRS	115	1.12	0.00	0.00	0.00	1.60	1.60	0.00	0.00	0.00	0.00	1.12
Laf T2	60	2.17	0.00	0.00	0.00	3.10	3.10	0.00	0.00	0.00	0.00	2.17
Mission	69	2.10	0.00	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00	2.10
Northwes	60	1.82	0.00	0.00	0.00	2.60	2.60	0.00	0.00	0.00	0.00	1.82
Palm	60	0.56	0.00	0.00	0.00	0.80	0.80	0.00	0.00	0.00	0.00	0.56
DVRPP 1M	13.8	1.82	0.00	0.00	0.00	2.60	2.60	0.00	0.00	0.00	0.00	1.82
Serra	60	1.12	0.00	0.00	0.00	1.60	1.60	0.00	0.00	0.00	0.00	1.12
Uranium	60	2.24	0.00	0.00	0.00	3.20	3.20	0.00	0.00	0.00	0.00	2.24
Walsh	60	2.24	0.00	0.00	0.00	3.20	3.20	0.00	0.00	0.00	0.00	2.24
Zeno	60	0.70	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.70
PLO ALTO	115	24.30	0.00	0.00	0.00	24.30	24.30	0.00	0.00	0.00	0.00	24.30
ANNAPOLS	60	0.00	0.00	0.00	0.00	0.21	0.21	0.00	0.00	0.00	0.00	0.00
GUALALA	60	0.00	0.00	0.00	0.00	3.27	3.27	0.00	0.00	0.00	0.00	0.00
ANTELOPE	230	6.34	0.00	0.00	0.00	6.34	6.34	0.00	0.00	0.00	0.00	6.34
ARVIN	70	0.00	2.00	0.00	0.00	2.72	2.72	0.00	2.00	0.00	0.00	2.00
BKRSFLDA	230	24.31	0.00	0.00	0.00	24.31	24.31	0.00	0.00	0.00	0.00	24.31
CARRIZO	115	0.00	0.00	0.00	0.00	0.09	0.09	0.00	0.00	0.00	0.00	0.00
KERN PWR	115	16.92	0.00	0.00	0.00	16.92	16.92	0.00	0.00	0.00	0.00	16.92
LAKEVIEW	70	13.16	20.00	0.00	0.00	20.00	20.00	0.00	20.00	0.00	0.00	20.00

"Potential DGD" worksheet for the PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	D	E	F	G	H	I	J	K	L	M
DG Node		DG in Base Portfolio	WDAT/Rule 21 non-NEM DG	Existing non-NEM DG	Existing FCDS non-NEM DG	DG Modeled	DG Deliverable	Existing EO non-NEM DG	WDAT EO Request	WDAT FC Request	Prior Commitment	Potential DGD
Substation	Transmission Level KV											
MIDWAY	500	3.78	0.00	0.00	0.00	3.78	3.78	0.00	0.00	0.00	0.00	3.78
NORCO	115	3.35	0.00	0.00	0.00	3.35	3.35	0.00	0.00	0.00	0.00	3.35
RENFRO	115	15.38	0.00	0.00	0.00	15.38	15.38	0.00	0.00	0.00	0.00	15.38
RIO BRVO	115	7.24	0.00	0.00	0.00	7.24	7.24	0.00	0.00	0.00	0.00	7.24
ROSEDAL	115	1.09	0.00	0.00	0.00	1.09	1.09	0.00	0.00	0.00	0.00	1.09
SN BRNRD	70	0.00	0.00	0.00	0.00	2.18	2.18	0.00	0.00	0.00	0.00	0.00
SHAFTER	115	9.22	0.00	0.00	0.00	9.22	9.22	0.00	0.00	0.00	0.00	9.22
STCKDLEA	230	9.43	0.00	0.00	0.00	9.43	9.43	0.00	0.00	0.00	0.00	9.43
TEJON	70	6.27	0.00	0.00	0.00	6.27	6.27	0.00	0.00	0.00	0.00	6.27
TEMBLOR	115	3.57	0.00	0.00	0.00	3.57	3.57	0.00	0.00	0.00	0.00	3.57
TEVIS	115	10.05	0.00	0.00	0.00	10.05	10.05	0.00	0.00	0.00	0.00	10.05
TUPMAN	115	7.24	2.60	0.00	0.00	7.24	7.24	0.00	2.60	0.00	0.00	7.24
WEEDPTCH	70	0.00	0.00	0.00	0.00	4.68	4.68	0.00	0.00	0.00	0.00	0.00
WHEELER	230	7.38	0.00	0.00	0.00	7.38	7.38	0.00	0.00	0.00	0.00	7.38
BAYWOOD	70	0.00	0.00	0.00	0.00	2.38	2.38	0.00	0.00	0.00	0.00	0.00
BUELLTON	115	0.00	0.00	0.00	0.00	1.36	1.36	0.00	0.00	0.00	0.00	0.00
CABRILLO	69	0.00	0.00	0.00	0.00	2.71	2.71	0.00	0.00	0.00	0.00	0.00
CAYUCOS	70	0.00	0.00	0.00	0.00	0.81	0.81	0.00	0.00	0.00	0.00	0.00
DIVIDE	70	0.00	0.00	0.00	0.00	1.81	1.81	0.00	0.00	0.00	0.00	0.00
FAIRWAY	115	0.00	19.96	0.00	0.00	19.96	19.96	0.00	0.00	19.96	0.00	0.00
FOOTHILL	115	0.00	0.00	0.00	0.00	1.50	1.50	0.00	0.00	0.00	0.00	0.00
GOLDTREE	115	0.00	0.00	0.00	0.00	4.13	4.13	0.00	0.00	0.00	0.00	0.00
MESA_PGE	115	0.00	0.00	0.00	0.00	6.63	6.63	0.00	0.00	0.00	0.00	0.00
OCEANO	115	0.00	0.00	0.00	0.00	0.61	0.61	0.00	0.00	0.00	0.00	0.00

"Potential DGD" worksheet for the PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	D	E	F	G	H	I	J	K	L	M
DG Node		DG in Base Portfolio	WDAT/Rule 21 non-NEM DG	Existing non-NEM DG	Existing FCDS non-NEM DG	DG Modeled	DG Deliverable	Existing EO non-NEM DG	WDAT EO Request	WDAT FC Request	Prior Commitment	Potential DGD
Substation	Transmission Level KV											
PALMR	115	0.00	0.00	0.00	0.00	1.71	1.71	0.00	0.00	0.00	0.00	0.00
PERRY	70	0.00	0.00	0.00	0.00	1.91	1.91	0.00	0.00	0.00	0.00	0.00
PURISIMA	115	0.00	0.00	0.00	0.00	0.17	0.17	0.00	0.00	0.00	0.00	0.00
SNTA MRA	115	0.00	0.50	0.00	0.00	6.21	6.21	0.00	0.50	0.00	0.00	0.50
SNTA YNZ	115	0.00	0.00	0.00	0.00	3.47	3.47	0.00	0.00	0.00	0.00	0.00
SISQUOC	115	0.00	1.43	0.00	0.00	1.80	1.80	0.00	1.43	0.00	0.00	1.43
TEMPLETN	230	0.00	6.75	0.00	0.00	7.59	7.59	0.00	6.75	0.00	0.00	6.75
ZACA	115	0.00	0.00	0.00	0.00	2.47	2.47	0.00	0.00	0.00	0.00	0.00
CASTROVL	230	0.00	1.40	0.00	0.00	9.70	9.70	0.00	1.40	0.00	0.00	1.40
DIXON LD	115	0.00	6.40	0.00	0.00	7.16	7.16	0.00	0.00	6.40	0.00	0.00
DUMBARTN	115	0.00	0.00	0.00	0.00	16.19	16.19	0.00	0.00	0.00	0.00	0.00
GRANT	115	0.00	0.00	0.00	0.00	16.01	16.01	0.00	0.00	0.00	0.00	0.00
JARVIS	115	0.00	0.00	0.00	0.00	17.54	17.54	0.00	0.00	0.00	0.00	0.00
LS PSTAS	230	0.00	0.00	0.00	0.00	14.52	14.52	0.00	0.00	0.00	0.00	0.00
LIVERMRE	60	0.00	0.00	0.00	0.00	6.41	6.41	0.00	0.00	0.00	0.00	0.00
MT EDEN	115	0.00	0.00	0.00	0.00	27.34	27.34	0.00	0.00	0.00	0.00	0.00
NWK DIST	230	0.00	0.00	0.00	0.00	65.45	65.45	0.00	0.00	0.00	0.00	0.00
RADUM	60	0.00	0.00	0.00	0.00	3.86	3.86	0.00	0.00	0.00	0.00	0.00
SAN RAMN	60	0.00	0.00	0.00	0.00	13.65	13.65	0.00	0.00	0.00	0.00	0.00
SUNOL	60	0.00	0.00	0.00	0.00	3.98	3.98	0.00	0.00	0.00	0.00	0.00
VASCO	60	0.00	0.00	0.00	0.00	3.53	3.53	0.00	0.00	0.00	0.00	0.00
VINEYARD	230	0.00	0.00	0.00	0.00	8.02	8.02	0.00	0.00	0.00	0.00	0.00
ALTO	60	0.00	0.00	0.00	0.00	3.65	3.65	0.00	0.00	0.00	0.00	0.00
BOLINAS	60	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00	0.00	0.00

"Potential DGD" worksheet for the PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	D	E	F	G	H	I	J	K	L	M
DG Node		DG in Base Portfolio	WDAT/Rule 21 non-NEM DG	Existing non-NEM DG	Existing FCDS non-NEM DG	DG Modeled	DG Deliverable	Existing EO non-NEM DG	WDAT EO Request	WDAT FC Request	Prior Commitment	Potential DGD
Substation	Transmission Level KV											
CARQUINZ	115	0.00	0.00	0.00	0.00	2.29	2.29	0.00	0.00	0.00	0.00	0.00
GREENBRE	60	0.00	0.00	0.00	0.00	5.41	5.41	0.00	0.00	0.00	0.00	0.00
HIGHWAY	115	0.00	0.00	0.00	0.00	31.71	31.71	0.00	0.00	0.00	0.00	0.00
IGNACIO	230	0.00	0.00	0.00	0.00	3.69	3.69	0.00	0.00	0.00	0.00	0.00
LS GLLNS	115	0.00	0.97	0.00	0.00	3.42	3.42	0.00	0.97	0.00	0.00	0.97
MONTCLLO	115	0.00	0.00	0.00	0.00	1.48	1.48	0.00	0.00	0.00	0.00	0.00
NOVATO	60	0.00	0.00	0.00	0.00	9.82	9.82	0.00	0.00	0.00	0.00	0.00
OLEMA	60	0.00	0.08	0.00	0.00	3.51	3.51	0.00	0.08	0.00	0.00	0.08
PUEBLO	115	0.00	0.00	0.00	0.00	27.69	27.69	0.00	0.00	0.00	0.00	0.00
SAN RAFL	115	0.00	0.00	0.00	0.00	15.49	15.49	0.00	0.00	0.00	0.00	0.00
SAUSALTO	60	0.00	0.00	0.00	0.00	1.20	1.20	0.00	0.00	0.00	0.00	0.00
SILVERDO	115	0.00	0.00	0.00	0.00	22.47	22.47	0.00	0.00	0.00	0.00	0.00
STAFFORD	60	0.00	0.00	0.00	0.00	2.53	2.53	0.00	0.00	0.00	0.00	0.00
WOODACRE	60	0.00	0.00	0.00	0.00	9.22	9.22	0.00	0.00	0.00	0.00	0.00
ANITA	60	0.00	0.75	0.00	0.00	2.04	2.04	0.00	0.75	0.00	0.00	0.75
CAPAY	60	0.00	0.33	0.00	0.00	2.95	2.95	0.00	0.33	0.00	0.00	0.33
CORNING	60	0.00	5.00	0.00	0.00	9.65	9.65	0.00	5.00	0.00	0.00	5.00
COTTONWD	60	0.00	0.00	0.00	0.00	10.72	10.72	0.00	0.00	0.00	0.00	0.00
DIRYVLLE	60	0.00	0.00	0.00	0.00	2.94	2.94	0.00	0.00	0.00	0.00	0.00
ELKCREEK	60	0.00	0.25	0.00	0.00	1.53	1.53	0.00	0.25	0.00	0.00	0.25
HAMILTON	60	0.00	0.00	0.00	0.00	1.41	1.41	0.00	0.00	0.00	0.00	0.00
JACINTO	60	0.00	0.00	0.00	0.00	8.73	8.73	0.00	0.00	0.00	0.00	0.00
LS MLNSJ	60	0.00	2.00	0.00	0.00	2.74	2.74	0.00	2.00	0.00	0.00	2.00
ORLAND B	60	0.00	0.00	0.00	0.00	1.43	1.43	0.00	0.00	0.00	0.00	0.00

"Potential DGD" worksheet for the PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	D	E	F	G	H	I	J	K	L	M
DG Node		DG in Base Portfolio	WDAT/Rule 21 non-NEM DG	Existing non-NEM DG	Existing FCDS non-NEM DG	DG Modeled	DG Deliverable	Existing EO non-NEM DG	WDAT EO Request	WDAT FC Request	Prior Commitment	Potential DGD
Substation	Transmission Level KV											
RED BLFF	60	0.00	1.75	0.00	0.00	9.97	9.97	0.00	1.75	0.00	0.00	1.75
TYLER	60	0.00	0.25	0.00	0.00	3.84	3.84	0.00	0.25	0.00	0.00	0.25
BAIR	115	0.00	0.00	0.00	0.00	9.42	9.42	0.00	0.00	0.00	0.00	0.00
BAY MDWS	115	0.00	0.00	0.00	0.00	8.20	8.20	0.00	0.00	0.00	0.00	0.00
BLLE HVN	60	0.00	0.00	0.00	0.00	6.58	6.58	0.00	0.00	0.00	0.00	0.00
BELMONT	115	0.00	0.00	0.00	0.00	1.13	1.13	0.00	0.00	0.00	0.00	0.00
BURLNGME	115	0.00	0.00	0.00	0.00	0.93	0.93	0.00	0.00	0.00	0.00	0.00
DALY CTY	115	0.00	1.60	0.00	0.00	14.41	14.41	0.00	1.60	0.00	0.00	1.60
EST GRND	115	0.00	0.00	0.00	0.00	23.93	23.93	0.00	0.00	0.00	0.00	0.00
GLENWOOD	60	1.13	0.00	0.00	0.00	1.13	1.13	0.00	0.00	0.00	0.00	1.13
MENLO	60	0.00	0.00	0.00	0.00	0.99	0.99	0.00	0.00	0.00	0.00	0.00
MILLBRAE	115	0.00	0.00	0.00	0.00	6.39	6.39	0.00	0.00	0.00	0.00	0.00
PACIFICA	60	0.00	0.00	0.00	0.00	1.92	1.92	0.00	0.00	0.00	0.00	0.00
RALSTON	230	0.00	0.00	0.00	0.00	1.60	1.60	0.00	0.00	0.00	0.00	0.00
REDWOOD	60	0.00	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.00	0.00
SAN CRLS	60	0.00	0.00	0.00	0.00	0.09	0.09	0.00	0.00	0.00	0.00	0.00
SANMATEO	138	0.00	0.00	0.00	0.00	2.36	2.36	0.00	0.00	0.00	0.00	0.00
MARTIN C	230	0.00	0.24	0.00	0.00	7.58	7.58	0.00	0.24	0.00	0.00	0.24
WOODSIDE	60	0.00	0.00	0.00	0.00	1.90	1.90	0.00	0.00	0.00	0.00	0.00
RICE	60	0.00	0.00	0.00	0.00	3.04	3.04	0.00	0.00	0.00	0.00	0.00
POTRERO	230	0.00	0.00	0.00	0.00	11.23	11.23	0.00	0.00	0.00	0.00	0.00
ALMADEN	60	6.33	0.00	0.00	0.00	6.33	6.33	0.00	0.00	0.00	0.00	6.33
EDENVALE	115	10.79	6.35	0.00	0.00	10.79	10.79	0.00	6.35	0.00	0.00	10.79
EVERGREN	60	9.71	0.00	0.00	0.00	9.71	9.71	0.00	0.00	0.00	0.00	9.71

"Potential DGD" worksheet for the PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	D	E	F	G	H	I	J	K	L	M
DG Node		DG in Base Portfolio	WDAT/Rule 21 non-NEM DG	Existing non-NEM DG	Existing FCDS non-NEM DG	DG Modeled	DG Deliverable	Existing EO non-NEM DG	WDAT EO Request	WDAT FC Request	Prior Commitment	Potential DGD
Substation	Transmission Level KV											
FMC	115	11.71	0.00	0.00	0.00	11.71	11.71	0.00	0.00	0.00	0.00	11.71
LLAGAS	115	0.00	2.20	0.00	0.00	8.03	8.03	0.00	2.20	0.00	0.00	2.20
MABURY	115	10.53	0.00	0.00	0.00	10.53	10.53	0.00	0.00	0.00	0.00	10.53
MARKHAM	115	0.26	0.00	0.00	0.00	0.26	0.26	0.00	0.00	0.00	0.00	0.26
MCKEE	115	3.01	0.00	0.00	0.00	3.01	3.01	0.00	0.00	0.00	0.00	3.01
MILPITAS	115	0.00	0.00	0.00	0.00	30.59	30.59	0.00	0.00	0.00	0.00	0.00
MONTAGUE	115	8.98	0.00	0.00	0.00	8.98	8.98	0.00	0.00	0.00	0.00	8.98
MRGN HIL	115	0.00	3.80	0.00	0.00	8.63	8.63	0.00	3.80	0.00	0.00	3.80
NORTECH	115	1.80	0.00	0.00	0.00	1.80	1.80	0.00	0.00	0.00	0.00	1.80
PIERCY	115	0.21	1.35	0.00	0.00	1.35	1.35	0.00	1.35	0.00	0.00	1.35
AGNEW	115	1.94	0.00	0.00	0.00	1.94	1.94	0.00	0.00	0.00	0.00	1.94
SN JSE A	115	1.54	0.00	0.00	0.00	1.54	1.54	0.00	0.00	0.00	0.00	1.54
SWIFT	115	1.98	0.00	0.00	0.00	1.98	1.98	0.00	0.00	0.00	0.00	1.98
BELLVUE	115	0.00	0.00	0.00	0.00	4.86	4.86	0.00	0.00	0.00	0.00	0.00
CORONA	115	0.00	0.00	0.00	0.00	14.47	14.47	0.00	0.00	0.00	0.00	0.00
COTATI	60	0.00	0.00	0.00	0.00	7.21	7.21	0.00	0.00	0.00	0.00	0.00
DUNBAR	60	0.00	0.00	0.00	0.00	9.36	9.36	0.00	0.00	0.00	0.00	0.00
FTCH MTN	60	0.00	0.00	0.00	0.00	1.81	1.81	0.00	0.00	0.00	0.00	0.00
FORT RSS	60	0.00	0.00	0.00	0.00	0.42	0.42	0.00	0.00	0.00	0.00	0.00
FULTON	230	0.00	0.00	0.00	0.00	5.12	5.12	0.00	0.00	0.00	0.00	0.00
GYSRVLLE	60	0.00	0.00	0.00	0.00	8.16	8.16	0.00	0.00	0.00	0.00	0.00
LAKEVLLE	115	0.00	3.00	0.00	0.00	5.58	5.58	0.00	3.00	0.00	0.00	3.00
MOLINO	60	0.00	0.00	0.00	0.00	5.55	5.55	0.00	0.00	0.00	0.00	0.00
MONROE1	115	0.00	0.00	0.00	0.00	15.15	15.15	0.00	0.00	0.00	0.00	0.00

"Potential DGD" worksheet for the PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	D	E	F	G	H	I	J	K	L	M
DG Node		DG in Base Portfolio	WDAT/Rule 21 non-NEM DG	Existing non-NEM DG	Existing FCDS non-NEM DG	DG Modeled	DG Deliverable	Existing EO non-NEM DG	WDAT EO Request	WDAT FC Request	Prior Commitment	Potential DGD
Substation	Transmission Level KV											
MONTE RO	60	0.00	0.00	0.00	0.00	1.17	1.17	0.00	0.00	0.00	0.00	0.00
PENNGRVE	115	0.00	0.00	0.00	0.00	5.25	5.25	0.00	0.00	0.00	0.00	0.00
PETLMA C	60	0.00	0.00	0.00	0.00	21.48	21.48	0.00	0.00	0.00	0.00	0.00
SLMN CRK	60	0.00	0.00	0.00	0.00	0.64	0.64	0.00	0.00	0.00	0.00	0.00
SNTA RSA	115	0.00	0.00	0.00	0.00	14.91	14.91	0.00	0.00	0.00	0.00	0.00
SONOMA	115	0.00	0.00	0.00	0.00	6.81	6.81	0.00	0.00	0.00	0.00	0.00
CAL CMNT	60	0.00	2.00	0.00	0.00	2.30	2.30	0.00	2.00	0.00	0.00	2.00
CHANNEL	60	0.00	0.00	0.00	0.00	0.44	0.44	0.00	0.00	0.00	0.00	0.00
CHEROKEE	60	0.00	0.00	0.00	0.00	6.63	6.63	0.00	0.00	0.00	0.00	0.00
CLAY	60	0.00	0.00	0.00	0.00	3.88	3.88	0.00	0.00	0.00	0.00	0.00
CORRAL	60	0.00	7.00	0.00	0.00	7.00	7.00	0.00	2.00	5.00	0.00	2.00
CNTRY CB	60	0.00	0.00	0.00	0.00	8.13	8.13	0.00	0.00	0.00	0.00	0.00
E.STCKTN	60	0.00	0.00	0.00	0.00	8.82	8.82	0.00	0.00	0.00	0.00	0.00
EIGHT MI	230	0.00	0.00	0.00	0.00	18.60	18.60	0.00	0.00	0.00	0.00	0.00
FRNCH CP	60	0.00	0.00	0.00	0.00	7.39	7.39	0.00	0.00	0.00	0.00	0.00
HAMMER	60	0.00	0.00	0.00	0.00	5.16	5.16	0.00	0.00	0.00	0.00	0.00
HERDLYN	70	0.00	2.00	0.00	0.00	3.94	3.94	0.00	2.00	0.00	0.00	2.00
INE PRSN	60	0.00	0.00	0.00	0.00	5.91	5.91	0.00	0.00	0.00	0.00	0.00
MARTELL	60	0.00	0.50	0.00	0.00	10.63	10.63	0.00	0.50	0.00	0.00	0.50
METTLER	60	0.00	0.30	0.00	0.00	3.34	3.34	0.00	0.30	0.00	0.00	0.30
MDL_RIVR	60	0.00	0.00	0.00	0.00	1.05	1.05	0.00	0.00	0.00	0.00	0.00
MORMON	60	0.00	0.00	0.00	0.00	16.34	16.34	0.00	0.00	0.00	0.00	0.00
N BRANCH	60	0.00	0.00	0.00	0.00	2.90	2.90	0.00	0.00	0.00	0.00	0.00
WATERLOO	60	0.00	0.00	0.00	0.00	9.27	9.27	0.00	0.00	0.00	0.00	0.00

"Potential DGD" worksheet for the PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	D	E	F	G	H	I	J	K	L	M
DG Node		DG in Base Portfolio	WDAT/Rule 21 non-NEM DG	Existing non-NEM DG	Existing FCDS non-NEM DG	DG Modeled	DG Deliverable	Existing EO non-NEM DG	WDAT EO Request	WDAT FC Request	Prior Commitment	Potential DGD
Substation	Transmission Level KV											
WEBER 1	60	0.00	12.20	0.00	0.00	18.13	18.13	0.00	8.00	4.20	0.00	8.00
COTTLE	230	0.00	0.00	0.00	0.00	16.10	16.10	0.00	0.00	0.00	0.00	0.00
BORONDA	60	0.00	0.00	0.00	0.00	3.52	3.52	0.00	0.00	0.00	0.00	0.00
BNA VSTA	60	8.43	0.00	0.00	0.00	8.43	8.43	0.00	0.00	0.00	0.00	8.43
CMP EVRS	115	5.69	0.06	0.00	0.00	5.69	5.69	0.00	0.06	0.00	0.00	5.69
CAMPHORA	60	0.00	0.00	0.00	0.00	1.52	1.52	0.00	0.00	0.00	0.00	0.00
CSTRVLLE	115	20.73	1.43	0.00	0.00	20.73	20.73	0.00	1.43	0.00	0.00	20.73
DEL MNTE	115	9.54	0.00	0.00	0.00	9.54	9.54	0.00	0.00	0.00	0.00	9.54
DOLAN RD	115	0.00	0.00	0.00	0.00	1.83	1.83	0.00	0.00	0.00	0.00	0.00
FORT ORD	60	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.00	0.00	0.00
GABILAN	60	5.82	0.00	0.00	0.00	5.82	5.82	0.00	0.00	0.00	0.00	5.82
GONZALES	60	6.84	1.43	0.00	0.00	6.84	6.84	0.00	1.43	0.00	0.00	6.84
GRN VLY1	115	16.49	0.00	0.00	0.00	16.49	16.49	0.00	0.00	0.00	0.00	16.49
HOLLISTR	115	0.00	4.75	0.00	0.00	6.81	6.81	0.00	4.75	0.00	0.00	4.75
KING CTY	60	0.00	0.00	0.00	0.00	8.13	8.13	0.00	0.00	0.00	0.00	0.00
LAURELES	60	0.00	0.00	0.00	0.00	2.77	2.77	0.00	0.00	0.00	0.00	0.00
LOS CCHS	60	8.11	0.00	0.00	0.00	8.11	8.11	0.00	0.00	0.00	0.00	8.11
LOS OSTS	60	5.30	3.00	0.00	0.00	5.30	5.30	0.00	3.00	0.00	0.00	5.30
OILFLDS	60	3.69	0.00	0.00	0.00	3.69	3.69	0.00	0.00	0.00	0.00	3.69
PAUL SWT	115	2.18	1.60	0.00	0.00	12.59	12.59	0.00	1.60	0.00	0.00	2.18
PT MRTTI	60	0.00	0.00	0.00	0.00	0.39	0.39	0.00	0.00	0.00	0.00	0.00
PRUNEDLE	115	0.00	0.00	0.00	0.00	1.81	1.81	0.00	0.00	0.00	0.00	0.00
RSVTN RD	60	0.00	0.00	0.00	0.00	5.22	5.22	0.00	0.00	0.00	0.00	0.00
ROB ROY	115	0.00	0.00	0.00	0.00	3.45	3.45	0.00	0.00	0.00	0.00	0.00

"Potential DGD" worksheet for the PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	D	E	F	G	H	I	J	K	L	M
DG Node		DG in Base Portfolio	WDAT/Rule 21 non-NEM DG	Existing non-NEM DG	Existing FCDS non-NEM DG	DG Modeled	DG Deliverable	Existing EO non-NEM DG	WDAT EO Request	WDAT FC Request	Prior Commitment	Potential DGD
Substation	Transmission Level KV											
SALINAS	115	12.67	1.50	0.00	0.00	12.67	12.67	0.00	1.50	0.00	0.00	12.67
SAN ARDO	60	0.00	0.00	0.00	0.00	2.86	2.86	0.00	0.00	0.00	0.00	0.00
SOLEDAD	115	8.22	0.00	0.00	0.00	8.22	8.22	0.00	0.00	0.00	0.00	8.22
SPENCE	60	12.77	0.00	0.00	0.00	12.77	12.77	0.00	0.00	0.00	0.00	12.77
BRITTN	115	12.35	0.00	0.00	0.00	12.35	12.35	0.00	0.00	0.00	0.00	12.35
EL PATIO	115	12.85	0.00	0.00	0.00	12.85	12.85	0.00	0.00	0.00	0.00	12.85
LAWRENCE	115	18.42	0.00	0.00	0.00	18.42	18.42	0.00	0.00	0.00	0.00	18.42
LOCKHD 2	115	1.45	0.00	0.00	0.00	1.45	1.45	0.00	0.00	0.00	0.00	1.45
LOS ALTS	60	10.08	0.00	0.00	0.00	10.08	10.08	0.00	0.00	0.00	0.00	10.08
LOS GATS	60	4.85	0.00	0.00	0.00	4.85	4.85	0.00	0.00	0.00	0.00	4.85
LOYOLA	60	6.60	0.00	0.00	0.00	6.60	6.60	0.00	0.00	0.00	0.00	6.60
MT VIEW	115	0.10	0.00	0.00	0.00	0.10	0.10	0.00	0.00	0.00	0.00	0.10
SARATOGA	230	2.51	0.11	0.00	0.00	2.51	2.51	0.00	0.11	0.00	0.00	2.51
VASONA	230	0.12	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.00	0.00	0.12
WHISMAN	115	0.29	0.00	0.00	0.00	0.29	0.29	0.00	0.00	0.00	0.00	0.29
CLAYTN	115	0.00	0.00	0.00	0.00	10.70	10.70	0.00	0.00	0.00	0.00	0.00
KIRKER	115	0.00	3.85	0.00	0.00	3.85	3.85	0.00	3.85	0.00	0.00	3.85
LAKEWD-C	115	0.00	0.00	0.00	0.00	5.74	5.74	0.00	0.00	0.00	0.00	0.00
MEDW LNE	115	0.00	0.00	0.00	0.00	1.66	1.66	0.00	0.00	0.00	0.00	0.00
RESEARCH	230	0.00	0.00	0.00	0.00	7.93	7.93	0.00	0.00	0.00	0.00	0.00
TASSAJAR	230	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00
EDES	115	0.00	0.00	0.00	0.00	7.85	7.85	0.00	0.00	0.00	0.00	0.00
VALLY VW	115	0.00	0.00	0.00	0.00	0.55	0.55	0.00	0.00	0.00	0.00	0.00
SN LS OB	115	0.00	1.50	0.00	0.00	1.50	1.50	0.00	0.00	1.50	0.00	0.00

"Potential DGD" worksheet for the PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	D	E	F	G	H	I	J	K	L	M
DG Node		DG in Base Portfolio	WDAT/Rule 21 non-NEM DG	Existing non-NEM DG	Existing FCDS non-NEM DG	DG Modeled	DG Deliverable	Existing EO non-NEM DG	WDAT EO Request	WDAT FC Request	Prior Commitment	Potential DGD
Substation	Transmission Level KV											

Total Potential DGD =	517.61

6.3 "No Potential DGD" worksheet for SCE service territory

"No Potential DGD" worksheet for SCE service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
DEVERS	115	16.25	0	Contribute to Devers 230/115kV bank overload; upgrades required for QC5.
FARREL	115	0.00	0	
BLYTHE	161	4.71	0	Contribute to deliverability constraints associated with Red Bluff - Devers 500kV line outages and Eldorado area outages; upgrades removed per QC1-QC4 technical bulletin.
EAGLE MOUNTAIN	230	0.00	0	
ELDORDO	230	0.00	0	
MOHAVE	500	0.00	0	
INYO	115	0.00	0	Contribute to Inyokern to Kramer, Kramer to Lugo constraints; upgrades required for Serial Group and QC3&4
INYOKERN	115	0.00	0	
KRAMER	115	0.25	0	Contribute to Kramer to Lugo constraints; upgrades required for Serial Group
TORTILLA	115	0.00	0	
EDWARDS	115	20.00	0	
GALE	115	1.50	0	
DUNNSIDE	115	0.00	0	
RECTOR	230	65.63	0	Contribute to Lugo - Victorville overload; upgrades removed per QC1 ~ 4 Technical Bulletin.
SPRINGVL	230	46.43	0	
BIG CRK3	230	0.00	0	

"No Potential DGD" worksheet for SCE service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
GOLETA	230	9.19	0	
BAILEY	66	0.00	0	
S.CLARA	230	0.00	0	
SAUGUS	230	11.13	0	
GOODRICH	230	10.00	0	
MOORPARK	230	0.00	0	
VICTOR	115	62.60	0	Contribute to Lugo 500/230kV transformer bank overload; upgrades removed per QC1-QC4 technical bulletin.

6.4 "No Potential DGD" worksheet for PG&E service territory

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
JENNY	115	0.94	0	Overloads restrict deliverability of existing or the new queue gens.
FRANKLIN	60	0.17	0	Overloads restrict deliverability of existing or the new queue gens.
ARCATA	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BIG_LAGN	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BIG_RVR_	12.47	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BLUE LKE	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BRDGVL T	12	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CARLOTTA	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CLER LKE	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
COVELO6	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
EEL RIVR	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
ELK_D	12.47	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
FAIRHAVN	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
FRT BRGG	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
HARRIS	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
HARTLEY	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
HGHLAND	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
HMBLT BY	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
JANS CRK	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
KONOCTI6	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
LYTNVLLE	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
LUCERNE	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
MPLE CRK	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
MENDOCNO	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
MIDDLTWN	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
NEWBURG	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PHILO_D	12.47	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
REDBUD	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
RIO DELL	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
EUREKA A	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
EUREKA	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
TRINIDAD	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
UKIAH	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
UPPR LKE	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
WILLITS	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BLACKWLL	70	1.05	0	Overloads restrict deliverability of existing or the new queue gens.
CALWATER	115	4.37	0	Overloads restrict deliverability of existing or the new queue gens.
CARNERAS	70	3.61	0	Overloads restrict deliverability of existing or the new queue gens.
CHARKA	115	5.67	0	Overloads restrict deliverability of existing or the new queue gens.
COLUMBUS	115	11.00	0	Overloads restrict deliverability of existing or the new queue gens.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
COPUS	70	8.49	0	Overloads restrict deliverability of existing or the new queue gens.
CUYAMA	70	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
ELK HLLS	70	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
FRUITVLE	70	10.08	0	Overloads restrict deliverability of existing or the new queue gens.
GANSO	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
GOSE LKE	115	2.71	0	Overloads restrict deliverability of existing or the new queue gens.
KERN OIL	115	38.89	0	Overloads restrict deliverability of existing or the new queue gens.
LAMONT	115	19.79	0	Overloads restrict deliverability of existing or the new queue gens.
LERDO	115	7.72	0	Overloads restrict deliverability of existing or the new queue gens.
MAGUNDEN	230	16.09	0	Overloads restrict deliverability of existing or the new queue gens.
MARICOPA	70	2.77	0	Overloads restrict deliverability of existing or the new queue gens.
MC FRLND	70	2.96	0	Overloads restrict deliverability of existing or the new queue gens.
OLD RIVR	70	6.54	0	Overloads restrict deliverability of existing or the new queue gens.
PANAMA	70	22.97	0	Overloads restrict deliverability of existing or the new queue gens.
POSO MT	115	7.39	0	Overloads restrict deliverability of existing or the new queue gens.
7STNDRD	115	8.46	0	Overloads restrict deliverability of existing or the new queue gens.
SMYRNA	115	10.02	0	Overloads restrict deliverability of existing or the new queue gens.
TAFT	115	7.17	0	Overloads restrict deliverability of existing or the new queue gens.
TWISSLMN	70	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
WASCO	70	6.43	0	Overloads restrict deliverability of existing or the new queue gens.
WESTPARK	115	8.80	0	Overloads restrict deliverability of existing or the new queue gens.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
ASHLAN	230	25.67	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
PSA RBLS	70	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
SAN MIGL	70	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CAYETANO	230	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
FREMNT	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
NDUBLIN	230	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
SN LNDRO	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BAHIA	230	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BASALT	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
NAPA	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PARKWAY	230	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
TULUCAY	230	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
NRTH TWR	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
ANDERSON	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BANGOR	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BIG MDWS	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BURNEY	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BUTTE	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CHALLNGE	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CHESTER	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CHICO A	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
CHICO B	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CLARK RD	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
DESCHUTS	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
EST QNCY	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
ESQUON	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
GIRVAN	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
HAMIL.BR	9.11	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
HONCUT	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
JESSUP	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
KANAKAJT	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
KESWICK	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
MC ARTHR	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
NORD 1	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
NOTRDAME	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
OREGNTRL	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CNTRVLLE	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
OROVILLE	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PANRAMA	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PARADSE	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PEACHTON	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
HAT CRK1	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
SYCAMORE	69	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
TRES VIS	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
WHITMORE	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
WYANDTTE	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
ARBUCKLE	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
COLUSA	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CORDELIA	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
DAVIS	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
DEEPWATR	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
DIXON	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
DUNNIGAN	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
JAMESON	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
MADISON	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
MAXWELL	500	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
MERIDIAN	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PEABODY	230	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PLAINFLD	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PUTH CRK	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
SUISUN	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
VACA-DIX	500	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
W.SCRMNO	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
WILKINS	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
WILLIAMS	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
WOODLD	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
ZAMORA	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
APPLE HL	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
AUBURN	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BARRY	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BELL PGE	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BOGUE	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BONNIE N	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BRWNS VY	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BRUNSWCK	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CATLETT	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CLRKSVLE	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CLMBA HL	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
DEL MAR	69	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
DMND SPR	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
E.MRYSVE	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
E.NICOLS	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
FLINT	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
FORST HL	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
GRSS VLY	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
HALSEY	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
HARTER	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
HIGGINS	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
HORSESHE	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
LINCLN	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
LIVE OAK	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
MRYSVLLE	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
MTN_QUAR	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
NARRWS 1	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
OLIVHRST	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PEASE	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PENRYN	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PLACER	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PLCRVLB2	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PLSNT GR	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PLUMAS	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
ROCKLIN	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
SHADYGLN	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
SHPRING	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
TUDOR	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
WEMR SWS	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
WHEATLND	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CLOVRDLE	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
AVENA	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BANTA	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CARBONA	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
COLONY	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
FROGTOWN	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
LAMMERS	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
LOCKFRD1	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
LODI	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
MANTECA	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
OLETA	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
RIPON	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
STANISLS	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
STKTON A	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
TRACY	500	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
VICTOR	230	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
VIERRA	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CRWS LDG	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CURTISS	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
NEWMAN	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PEORIA	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
R.TRACK	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
RVRBANK	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
VALLY HM	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
WESTLEY	230	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
AMES DST	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
ALHAMBRA	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BALFOUR	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
BRENTWOD	230	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CC SUB	230	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
MARTNZ D	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
LONETREE	230	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
MORAGA	230	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
SOBRANTE	230	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
WLLW PSS	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
PT PINLE	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
RICHMOND	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
SAN PBLO	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
STATIN D	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
EL CRRTO	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
STATIN J	115	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
MC CALL	230	12.32	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
MCMULLN1	230	11.12	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
PARLIER	115	9.09	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
PNEDLE	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
RAINBW	115	5.38	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
RANCHRS	115	3.07	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
RESERVE	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
SAN JOQN	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
SANDCRK	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
SANGER	115	26.35	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
SCHINDLR	115	9.45	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
STROUD	70	4.93	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
TVY VLLY	70	7.47	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
WOODWARD	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
ATWATER	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
BER VLLY	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
BONITA	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
BORDEN	230	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
CANAL	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
CHENY	115	5.42	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
CHWCHLLA	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
CORSGOLD	115	6.75	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
CRESSEY	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
DAIRYLND	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
DOS PALS	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
EL CAPTN	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
EL PECO	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
FIREBAGH	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
GUSTINE	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
HAMMONDS	115	6.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
LIVNGSTN	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
MADERA	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
MARIPOS2	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
MENDOTA	115	27.26	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
MERCED	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
NEWHALL	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
OAKHURST	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
ORO LOMA	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
ORTIGA	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
SNTA NLA	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
STOREY 1	230	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
WILSON A	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
AIRWAYS	115	9.54	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
ALPAUGH	115	3.83	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
ANGIOLA	70	3.67	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
AUBERRY	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
BARTON	115	18.68	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
BIOLA	70	7.39	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
BOWLES	70	6.69	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
BULLARD	115	17.02	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
CALFLAX	70	5.24	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
CAL AVE	115	7.22	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
CANTUA	115	17.54	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
CLOVIS-1	115	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
COLNGA 2	70	11.37	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
CORCORAN	115	8.02	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
FIGRDN 1	230	12.25	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
GATES	500	6.03	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
GIFFEN	70	6.37	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
GUERNSEY	70	5.61	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
HARDWICK	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
HENRITTA	70	3.53	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
HURON	70	3.98	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
JCBSCRNR	70	5.21	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
KERMAN	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
KINGSBRG	115	19.31	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
LEMOORE	70	11.32	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
MALAGA	115	30.83	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
AVENAL	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.

"No Potential DGD" worksheet for PG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
COLNGA 1	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
GATES	500	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
STONCRRL	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.
CLSA JCT	60	0.00	0	Overloads restrict deliverability of existing or the new queue gens.
CAMDEN	70	0.00	0	Large number of overloads in Cluster 3-4 Phase II studies. All the DGs in Fresno will have deliverability issues.

6.5 "No Potential DGD" worksheet for the SDG&E service territory

"No Potential DGD" worksheet for the SDG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
ASH	69	20.01	0.00	Contribute to Path 43 (North of SONGS) deliverability constraint.
ARTESN	69	10.64	0.00	
AVOCADO	69	8.01	0.00	
B	69	11.46	0.00	
BARRETT	69	0.70	0.00	
BERNARDO	69	16.09	0.00	
BORDER	69	0.00	0.00	
BORREGO	69	1.97	0.00	
BOULEVRD	69	0.81	0.00	
CABRILLO	69	0.86	0.00	
CAMERON	69	0.49	0.00	
CAPSTRNO	69	4.69	0.00	
CARLTNHS	69	12.27	0.00	
CHCARITA	69	0.00	0.00	
CHOLLAS	69	2.84	0.00	
CLAIRMNT	69	9.26	0.00	
CORONADO	69	0.43	0.00	
CREELMAN	69	15.65	0.00	
CRSTNTS	69	0.00	0.00	
DEL MAR	69	17.79	0.00	
DIVISION	69	1.05	0.00	
EASTGATE	69	12.43	0.00	
EL CAJON	69	2.59	0.00	
ELLIOTT	69	7.88	0.00	
ENCNITAS	69	0.00	0.00	
ESCNDIDO	69	9.20	0.00	
F	69	3.40	0.00	
FENTON	69	0.00	0.00	
FRIARS	69	3.95	0.00	
GARFIELD	69	2.12	0.00	
GENESEE	69	12.33	0.00	
GRANITE	69	0.02	0.00	

"No Potential DGD" worksheet for the SDG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
IMPRLBCH	69	0.00	0.00	
JAMACHA	69	1.25	0.00	
KEARNY	69	1.94	0.00	
KETTNER	69	2.15	0.00	
KYOCERA	69	2.07	0.00	
LA JOLLA	69	0.23	0.00	
LAGNA NL	69	1.10	0.00	
LOVELAND	69	1.70	0.00	
MARGARTA	69	15.89	0.00	
MELROSE	69	20.07	0.00	
MESA RIM	69	29.80	0.00	
MIRAMAR	69	12.43	0.00	
MONSRATE	69	6.84	0.00	
MONTGMRY	69	12.27	0.00	
MOROHILL	69	0.00	0.00	
MURRAY	69	0.04	0.00	
NORTHCTY	69	0.00	0.00	
OLD TOWN	69	1.58	0.00	
OMWD	69	0.00	0.00	
OTAY	69	0.00	0.00	
OTAYLAKE	69	0.00	0.00	
PACFCBCH	69	0.39	0.00	
PARADISE	69	2.38	0.00	
PENDLETN	69	3.91	0.00	
PICO	69	12.42	0.00	
POINTLMA	69	0.20	0.00	
POMERADO	69	8.07	0.00	
POWAY	69	23.37	0.00	
PRCTRVLY	69	6.65	0.00	
R.CARMEL	69	14.79	0.00	
R.SNTAFE	69	4.51	0.00	
SAMPSON	69	1.28	0.00	
SANYSDRO	69	0.00	0.00	
SCRIPPS	69	0.00	0.00	
SUNYSIDE	69	0.00	0.00	

"No Potential DGD" worksheet for the SDG&E service territory (all values in Megawatts unless otherwise noted)

A	B	C	M	Q
DG Node		DG in Base Portfolio	Potential DGD	Notes
Substation	Transmission Level KV			
SWEETWTR	69	1.17	0.00	
TELECYN	69	15.66	0.00	
TOREYPNS	69	1.52	0.00	
TRABUCO	69	6.09	0.00	
GRNT HLL	69	3.76	0.00	
CRESTWD	69	0.26	0.00	