California ISO

Stakeholder Comments Template

Effective Load Carrying Capability (ELCC) Study Results for Demand Response (DR) Resources

This template has been created for submission of stakeholder comments on the updated ELCC study results for DR resources, which was published on June 18, 2021 The Stakeholder meeting presentation and other information related to the discussion, may be found on the initiative webpage at: http://www.caiso.com/informed/Pages/MeetingsEvents/MiscellaneousStakeholderMeetings/Default.aspx.

Upon completion of this template, please submit it to initiativecomments@caiso.com. Submissions are requested by close of business on **June 28, 2021**.

Submitted by	Organization	Date Submitted
Delphine Hou	*CAISO*	*June 28, 2021*

Please provide your organization's comments on the following issues and questions.

1. ELCC Updated Study Results

Please provide your organization's feedback on the updated ELCC study results for DR resources.

I. Introduction

The California Independent System Operator Corporation (CAISO) provides the following comments on the refreshed study results from Energy and Environmental Economics, Inc. (E3). The study was conducted in compliance with the California Public Utilities Commission (Commission) *Assigned Commissioner's Ruling on Submission of Refreshed Effective Load Carrying Capability Study Results* (Ruling). The Ruling requested that the CAISO, Pacific Gas & Electric (PG&E), Southern California Edison (SCE), and San Diego Gas & Electric (SDG&E) were requested to submit all compliance materials by July 1, 2021 in order to allow the Commission time to finalize investor-owned utility (IOU) qualifying capacity (QC) values. The

Ruling specifies the following conditions: (1) the effective load carrying capability (ELCC)-determined QC would only be applicable for the 2022 compliance year, and would only apply to investor-owned utility (IOU) demand response programs (not to third-party demand response); (2) potential adoption for 2022 does not indicate Commission preference for ELCC or any other QC methodology; and (3) adoption of any ELCC-determined QC for 2022 must occur in early September 2021 to allow sufficient time for final resource adequacy allocations in mid-September 2021.[1]

The refreshed study results finds that the ELCC values reflect in aggregate a derate from the QC values calculated today based on the load impact protocol (LIP) methodology. The refreshed study results also found that based on individual demand response programs, the ELCC values can reflect either a derate or uprate and vary widely across programs. The study results were presented in two different levels of aggregation: (1) by IOU by month, representing the value of each IOU's portfolio in aggregate and (2) by program by IOU by month, representing the value of each program by local capacity area. The ELCC percentages only apply to the summer months from June through September so all other months should continue to use the LIP-derived QC values for IOU demand response in the 2022 resource adequacy program. **The CAISO strongly supports the results of the study and urges the Commission to adopt them for use as described in the Ruling.** Based on the CAISO's understanding, the Commission may choose to apply the percentage derate or uprate from either level of aggregation to determine the QC value. **The CAISO recommends the Commission use aggregated derates by IOU for ease of implementation as this effort is limited to the 2022 resource adequacy year and for better accuracy. If the Commission uses the aggregate derate values by IOU by month, the IOUs should be provided the flexibility to determine how to fairly and cost-effectively allocate the derate amongst their different programs.**

II. Discussion

The CAISO provides comments recommending the Commission use the E3 Refresh Study Results for IOU demand response programs in the 2022 resource adequacy year, a discussion on the validity of the study methodology and assumptions, adherence to the expedited process as

[1] Ruling, pp. 3-4.

directed by the Ruling, and additional clarifications on the application of adders via crediting. The CAISO provides an illustrative example of how the ELCC percentages can be applied to the existing LIP-based NQC values in appendix A.

A. The Commission Should Use the E3 Refresh Study Results for IOU Demand Response Programs in the 2022 Resource Adequacy Year.

In compliance with the Ruling, the CAISO contracted with Energy and Environmental Economics, Inc. (E3) to refresh its IOU demand response ELCC study using 2020 demand response program bid data from PG&E, SCE, and SDG&E (E3 Refresh Study Results). The data provided reflect demand response ELCC values without planning reserve margin (PRM) or transmission and distribution loss adders. The PRM and adders are discussed in more detail in Section III below. The results reflect two levels of aggregation: (1) by IOU by month, representing the value of each IOU's aggregated demand response portfolio[2] and (2) by program by IOU by month, representing the value of each IOU demand response program by local capacity area (LCA).[3] To provide an example, Table A below shows the refreshed ELCC percentage derates for August 2020 by IOU. This percentage is based on the 2020 annual ELCC values calculated by IOU compared to the net qualifying capacity (NQC) values used by the Commission to set the credited IOU demand response resource adequacy amounts for 2020. The 2020 annual ELCC values are then calculated as a percentage of the summer NQC values for June through September (only August is shown below in this example). The table shows that the August 2020 ELCC values for the PG&E, SCE, and SDG&E demand response programs are 82%, 79%, and 54%, respectively, of the 2020 LIP-derived NQC values (all derates).[4]

Table A: Sample 2020 ELCC Derate Values by IOU For August 2020

	2020 ELCC as a % of NQC for 2020*
[A]	[G]
IOU	Aug
PG&E	82%
SCE	79%
SDG&E	54%

*Does not include planning reserve margin, distribution, and transmission line loss adders.

[2] Energy and Environmental Economics, Inc. (E3), "Demand Response ELCC", June 24, 2021, p. 51. (E3 Refresh Study Results.) Available at: http://www.caiso.com/Documents/E3-CAISODemandResponseELCCStudyUpdate2021-Combined-.pdf

[3] E3 Refresh Study Results, pp. 52-54.

[4] E3 Refresh Study Results, p. 51.

On the other hand, viewing the results by specific demand response program shows significant variations between programs. For example, individual PG&E demand response programs have August 2020 ELCC values ranging from 0% to 462% of 2020 LIP values.[5] ELCC values at the demand response program level reflect both derates and uprates from the existing LIP values.

The CAISO believes the Commission may apply the percentage derate or uprate to LIP values at the IOU level or the program level to determine 2022 IOU demand response QC values. However, the CAISO recommends using the IOU level aggregation. Although aggregation by program type by IOU by month provides valuable insight into performance variation across the different programs, these more granular results are affected by the inherent "noise" caused by using only one year of bidding data. Furthermore, the E3 Refresh Study Results did not have visibility into customer enrollments, or potential data misalignment issues that would need to be sorted out for a handful of programs requiring greater understanding of the development of program specific bid data. This is partially why the CAISO prefers the IOU-level aggregation over program specific derates or uprates. Additionally, the large variation in results, with some programs receiving a large derate and others a large uprate, could be difficult to implement. Furthermore, use of the aggregated derates by IOU allows the IOUs themselves to determine how to fairly and cost-effectively allocate the derate amongst their different programs.

The ELCC percentages only apply to the summer months so all other months should continue to use the LIP-derived QC values for IOU demand response in the 2022 resource adequacy program. The Commission may choose to apply the percentage derate or uprate from either level of aggregation to determine the QC value. If the Commission uses the aggregate derate values by IOU by month, the IOUs should be provided the flexibility to determine how to fairly and cost-effectively allocate the derate amongst their different programs. The CAISO recommends the Commission use aggregated derates by IOU for ease of implementation as this effort is limited to the 2022 resource adequacy year and for better accuracy.

To assist the Commission in implementation given the compressed schedule, Appendix A provides an illustrative example of how the two sets of 2020 ELCC percentages applied to the

[5] E3 Refresh Study Results, p. 52.

demand response allocation values used to develop the resource adequacy IOU credits provided to the CAISO.[6]

B. The ELCC Study Methodology and Assumptions Are Sound.

The ELCC study methodology and assumptions are thoroughly documented in the E3 analysis and have not changed since first introduced in 2020.[7] In keeping with the methodology used in prior iterations of the E3 ELCC study, data from LIP filings were not an input into the model used to generate ELCC MW values and thus were not used to determine the ELCC study results. However, the E3 Refresh Study Results use 2020 demand response NQC values, which are informed by LIP filings, to compare with the ELCC results and to calculate ELCC as a percentage of the June through September 2020 NQC values. Importantly, the ELCC analysis is based on how demand response resources were bid into the market and is not based on its performance to those bids. Therefore, this does not result in a "double penalty" (once for bids below the NQC value and another for performaning below bid amounts if awarded). To the extent that ELCC is lower than NQC, than NQC is overstating the ability of these resources and should be adjusted to reflect the actual capability represented in the bids.

As explained in the E3 Refresh Study Results, there are three approaches to measuring resource ELCC value: (1) portfolio, (2) first-in, and (3) last-in.[8] The E3 ELCC study uses the first-in methodology to determine demand response ELCC value because it measures the ability of a resource to serve load at the peak, *i.e.*, to "clip the peak." This approach is analogous to how industry participants anticipate peaking resources will be utilized.[9] The "last-in" methodology is completely unrelated from Commission preference for preferred resources such as energy efficiency, demand response, etc. "Last-in" simply refers to how these resources are dispatched and if they are optimally dispatched in conjunction with all other resources on the system. Demand response today does dispatch after natural gas. Natural gas is dispatched every day in California, whereas demand response is only dispatched for a limited number of hours per year during times when the system is constrained. This dispatch is entirely unrelated to Commission preference. These concepts should not be tied together in any way.

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[6] 2021-2023 PG&E, SCE, and SG&E Demand Response Totals. Available at: https://www.cpuc.ca.gov/General.aspx?id=6311

[7] E3 Refresh Study Results, pp. 10-15 and pp. 18-21.

[8] E3 Refresh Study Results, p. 13.

[9] E3 Refresh Study Results, p. 14.

More generally, the methodology has been thoroughly vetted and leverages E3's Renewable Energy Capacity Planning (RECAP) model. RECAP is used by many utilities and government agencies to assess generation resource adequacy for a power system based on loss-of-load probability analysis. RECAP simulates the availability of bulk power system energy and capacity to serve load under a wide range of weather conditions over thousands of years selected through Monte Carlo analysis. RECAP calculates reliability statistics including loss of load probability (LOLP), loss of load expectation (LOLE), expected unserved energy (EUE) and ELCC through time-sequential simulations of available electric resources. RECAP also calculates the planning reserve margin (PRM) that would be necessary to meet a selected reliability standard such as 1-day-in-10-years. RECAP is specifically calibrated to analyze resource adequacy challenges under high renewable penetration. RECAP estimates ELCC values for both conventional and dispatch-limited resources such as wind, solar, hydro, demand response, and energy storage. Hourly data for electric loads, wind production, solar production and hydro availability are developed for many years of historical weather data and serve as an input to RECAP. The model considers both the absolute levels of demand and supply and the correlation of wind and solar output with load and with each other to ensure that the diversity of supply resources is fully considered.

E3 relied on public vetted data or direct inputs for the refresh analysis. Specifically, the study used the Commission's integrated resource plan portfolio for the 2021-2022 Transmission Planning Process.[10] 2020 bid data was provided directly by each IOU for each program.

C. The Ruling Calls for an Expedited Process Limited to 2022 Resource Adequacy Year.

The CAISO appreciates the Commission providing an opportunity to file documentation per the Ruling. The CAISO also understands that given the short turn-around and the limited scope of the Ruling, the intent was not to revise the current E3 methodology but simply to refresh the prior study using 2020 bid data. From the CAISO's understanding, E3 had been in regular communication with all three IOUs since since December 2020 to discuss the ELCC methodology, assumptions, and results. CAISO and E3 attended meetings with and addressed data requests from the IOUs to discuss these topics on multiple occasions and answer general and specific ELCC

[10] E3 Refresh Study Results, p. 45.

methodology questions and questions related specifically to the E3 Refresh Study Results. Furthermore, the outreach process adhered to the requirements and timelines specified in the Ruling.

III. Additional Clarifications

The CAISO provides an additional clarification about the application of adders via crediting. As noted above, the values provided in the ELCC study refresh do not include any PRM gross ups or adders for distribution and transmission loss factors. Decision (D.) 21-06-029 retains a 9% PRM adder and the distribution and transmission loss factor adders. Specifically, for the transmission loss factor, D.21-06-029 directs Energy Division staff to continue to use crediting to account for this adder.[11] However, much of the impetus to use ELCC values for 2022 is to eliminate non-net-neutral crediting. If the CAISO determines PRR 1280 is no longer held in abeyance, the CAISO will no longer accept non-net-neutral credits for resource adequacy purposes. However, the Commission can reflect the 9% of the PRM and the transmission loss factor retained by D.21-06-029 in the QC value. Specifically, the Commission can add the PRM and transmission loss factors to the ELCC values established by the refresh study and set the total value as the QC value. The QC value would not be subject to the application of the resource adequacy availability incentive mechanism (RAAIM) if a waiver request is granted by the Federal Energy Regulatory Commission.

Additional comments

Please offer any additional feedback your organization would like to provide on the updated study results and meeting discussion.

The CAISO provides the following illustrative applications of the ELCC values in Appendix A.

[11] D.21-06-029, p. 43.

Appendix A: Illustrative ELCC Values for 2022 IOU Demand Response

The CAISO provides a illustrative examples of how the ELCC percentages can be applied to the existing LIP-based NQC values to assist Commission Energy Division staff. The examples are provided as pairs for each IOU showing: (1) how the ELCC percentages may be applied at the aggregated IOU level by month from June through September and (2) how the ELCC percentages may be applied at the program level by month from June through September. The CAISO used the 2020 ELCC values provided by E3 and applied them to the values the CAISO believed were used to establish the IOU demand response credits used to reduce the resource adequacy requirement. The latest vintage available are the spreadsheets posted to the Commission resource adequacy website for the 2021-2023 PG&E, SCE, and SG&E Demand Response Totals.[12] The examples below use the 2022 data set provided.

The CAISO's illustrative examples are provided in the excel workbook is posted at:
http://www.caiso.com/Pages/documentsbygroup.aspx?GroupID=19CB4F49-2CB5-47A8-B646-912C3FE8E448

Each tab of the workbook is also copied into this appendix.

Tab: "ReadMe"

Appendix A - Illustrative ELCC Values for 2022 IOU Demand Response

Table of Contents	Description
ELCC Results	Shows results of ELCC refresh, both in MW and in comparison to 2020 NQC DR Allocations for June - September.
PG&E IOU ELCC Derate	Example of IOU-level derate. Shows PG&E 2022 DR Allocations (from 2019 LIP) scaled by PG&E aggregate ELCC result.
PG&E Program ELCC Derate	Example of program-level derate. Shows PG&E 2022 DR Allocations (from 2019 LIP) scaled by program-LCA-level ELCC results using August 2020 ELCC %.
SCE IOU ELCC Derate	Example of IOU-level derate. Shows SCE 2022 DR Allocations (from 2019 LIP) scaled by SCE's aggregate ELCC result.
SCE Program ELCC Derate	Example of program-level derate. Shows SCE 2022 DR Allocations (from 2019 LIP) scaled by program-LCA-level ELCC results using August 2020 ELCC %.
SDG&E IOU ELCC Derate	Example of IOU-level derate. Shows SDG&E 2022 DR Allocations (from 2019 LIP) scaled by SDG&E aggregate ELCC result.
SDG&E Program ELCC Derate	Example of program-level derate. Shows SDG&E 2022 DR Allocations (from 2019 LIP) scaled by program-LCA-level ELCC results .

[12] Available at: https://www.cpuc.ca.gov/General.aspx?id=6311

Tab: “ELCC Results”

Source: E3

Disclaimer: NQC numbers used are based on April 2019 LIP filing. Alternative baselines are discussed in E3's "Demand Response ELCC" study results on page 48. Available at: http://www.caiso.com/Documents/E3-CAISODemandResponseELCCStudyUpdate2021-Combined-.pdf

IOU	Program	Local Capacity Area (LCA)	ELCC, First-in 2020 (MW)	2020 NQC June (MW)	2020 NQC July (MW)	2020 NQC August (MW)	2020 NQC September (MW)	ELCC as % of NQC June 2020	ELCC as % of NQC July 2020	ELCC as % of NQC August 2020	ELCC as % of NQC September 2020	E3 Notes
All IOUs	All programs	All LCAs	1035.85	1249.42	1255.94	1306.25	1247.82	83%	82%	79%	83%	The Aggregate ELCC for all IOUs could be slightly different than sum of each IOU's ELCC. This is owing to interaction between the different IOUs' programs being captured in the former but not the latter
PG&E	All programs	All LCAs	273.39	348.84	342.43	335.40	317.91	78%	80%	82%	86%	The Aggregate ELCC could be slightly different than sum of each program's ELCC. This is owing to interaction between programs being captured in the aggregate number but not the program specific number
	BIP	All LCAs	200.80	265.98	257.10	253.30	241.80	75%	78%	79%	83%	
	CBP	Bay Area	9.03	10.00	10.00	10.00	10.00	90%	90%	90%	90%	
		CAISO System	9.81	3.00	3.00	3.00	3.00	327%	327%	327%	327%	
		Greater Fresno	9.83	9.00	9.00	9.00	9.00	109%	109%	109%	109%	
		Humboldt	1.10	0.00	0.00	0.00	0.00	0%	0%	0%	0%	NQC not disclosed to E3 due to small number of participants
		Kern	5.53	3.00	3.00	3.00	3.00	184%	184%	184%	184%	
		North Coast	4.62	1.00	1.00	1.00	1.00	462%	462%	462%	462%	
		Sierra	1.98	5.00	5.00	5.00	5.00	40%	40%	40%	40%	
		Stockton	1.39	0.00	0.00	0.00	0.00	0%	0%	0%	0%	NQC not disclosed to E3 due to small number of participants
	SAC	Bay Area	7.47	16.00	17.00	16.00	15.00	47%	44%	47%	50%	
		CAISO System	5.62	10.00	11.00	10.00	9.00	56%	51%	56%	62%	
		Greater Fresno	3.34	10.00	10.00	9.00	8.00	33%	33%	37%	42%	
		Kern	2.54	0.00	0.00	0.00	0.00	0%	0%	0%	0%	NQC not disclosed to E3 due to small number of participants
		North Coast	0.46	2.00	2.00	2.00	1.00	23%	23%	23%	46%	
		Sierra	6.16	9.00	9.00	9.00	7.00	68%	68%	68%	88%	
		Stockton	3.19	5.00	5.00	5.00	4.00	64%	64%	64%	80%	
SCE	All programs	All LCAs	754.52	892.10	901.65	957.11	914.83	85%	84%	79%	83%	The Aggregate ELCC could be slightly different than sum of each program's ELCC. This is owing to interaction between programs being captured in the aggregate number but not the program specific number
	API	Big Creek	29.52	30.07	28.87	29.57	19.29	98%	102%	100%	153%	
		CAISO System	2.10	2.61	2.66	2.62	2.45	80%	79%	80%	85%	
		LA Basin	3.82	5.22	6.03	6.44	6.03	73%	63%	59%	63%	
	BIP	Big Creek	44.86	71.12	68.63	68.87	74.42	63%	65%	65%	60%	
		CAISO System	118.71	101.88	94.16	91.75	97.34	117%	126%	129%	122%	
		LA Basin	329.20	438.99	421.92	441.58	431.19	75%	78%	75%	76%	
	CBP	Big Creek	0.39	Redacted	Redacted	Redacted	Redacted	15%	15%	15%	15%	
		CAISO System	0.20	Redacted	Redacted	Redacted	Redacted	30%	30%	30%	30%	
		LA Basin	4.57	Redacted	Redacted	Redacted	Redacted	54%	54%	54%	54%	
	SDP	Big Creek	12.95	18.66	24.40	26.12	18.60	69%	55%	51%	72%	
		CAISO System	9.24	8.37	11.83	11.64	8.96	110%	71%	72%	93%	
		LA Basin	106.20	90.68	117.21	143.11	121.13	117%	91%	74%	88%	
	SEP	Big Creek	2.95	5.97	6.47	7.84	6.28	49%	46%	38%	47%	
		CAISO System	0.56	0.94	1.01	1.01	0.86	60%	56%	56%	65%	
		LA Basin	15.01	29.68	31.85	39.97	36.68	51%	47%	38%	41%	
	LCR	LA Basin	63.82	75.00	75.00	75.00	80.00	85%	85%	85%	80%	
SDGE	All programs	SDGE	7.46	8.472	11.858	13.737	15.088	88%	63%	54%	49%	The Aggregate ELCC could be slightly different than sum of each program's ELCC. This is owing to interaction between programs being captured in the aggregate number but not the program specific number
	AC Saver DA	SDGE	2.58	3.93	4.67	5.25	5.58	66%	55%	49%	46%	
	AC Saver DO	SDGE	1.90	0.60	3.25	4.56	5.49	314%	58%	42%	35%	
	BIP	SDGE	0.68	1.01	1.01	1.01	1.10	67%	67%	67%	62%	
	CBP DA	SDGE	0.40	0.19	0.19	0.19	0.19	215%	215%	215%	215%	
	CBP DO	SDGE	2.15	2.74	2.74	2.74	2.74	78%	78%	78%	78%	

Tab: “PG&E IOU ELCC Derate” (1 of 2)

DERATED BY IOU-LEVEL ELCC (CAISO edits in red)
These are the original spreadsheets from the Resource Adequacy Compliance Materials webpage on the CPUC website with all changes shown in red text.
The IOU-level ELCC values (columns C-F, linked from ELCC Results tab) are multiplied by the Total Supply-Side Resources DR allocations for the months Jun-Sep (M-P) to determine the derated portfolio totals (Q-T).
The program-level derates are to be determined by the IOU such that the program-level allocations sum to the derated total (therefore the program-level allocations are left blank).
"N/A" denotes rows not derated (derates are only applied to IOU portfolio in aggregate).

PG&E DR Allocations for 2022 Estimated According to Load Impact Protocols (LIPs) Final Reports

Average of Hourly Ex Ante Load Impacts (MW) from 4-9 PM at Portfolio Level on Monthly Peak Load Days Under 1-in-2 Weather Year Conditions, Before Adjusting for Avoided Line Losses

Instructions: Please complete the Payments and Local Capacity Area (LCA) columns below. If payment for a program is from bundled customers only, enter 0. If payment is from distribution customers, enter 1.

Note: RA benefits for Non Event Event-Based Programs/Load Modifying Resources will be reflected in the CEC load forecast adjustments.

		ELCC Derates					Original Monthly NQC Values								ELCC Adjusted Values						
Event-Based Programs/Supply-Side Programs	Payment	ELCC % of Jun 2020	ELCC % of Jul 2020	ELCC % of Aug 2020	ELCC % of Sep 2020	Local Capacity Area (LCA)	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Base Interruptible Program (BIP)	1	N/A	N/A	N/A	N/A	Greater Bay Area	9.34	8.59	9.26	9.96	10.52	10.75	10.67	10.57	10.62					10.18	9.26	9.02
		N/A	N/A	N/A	N/A	Greater Fresno Area	11.13	8.94	9.63	10.36	10.94	11.18	11.10	11.00	11.05					10.58	9.63	9.38
		N/A	N/A	N/A	N/A	Humboldt	CONFIDENTIAL															
		N/A	N/A	N/A	N/A	Kern																
		N/A	N/A	N/A	N/A	Northern Coast																
		N/A	N/A	N/A	N/A	Sierra																
		N/A	N/A	N/A	N/A	Stockton																
		N/A	N/A	N/A	N/A	Outside LCA	123.10	119.17	128.47	138.24	145.92	149.12	148.05	146.70	147.37					141.17	128.43	125.17
		N/A	N/A	N/A	N/A	**Total IOU Service Area**	**195.63**	**186.2**	**200.73**	**215.99**	**228.01**	**232.99**	**231.33**	**229.22**	**230.26**					**220.57**	**200.68**	**195.57**
Capacity Bidding Program Day Ahead (CBP DA) -- Non-Residential	1	N/A	N/A	N/A	N/A	Greater Bay Area	0.00	0.00	0.00	0.00	11.81	15.75	21.37	22.50	19.12					17.43	0.00	0.00
		N/A	N/A	N/A	N/A	Greater Fresno Area	0.00	0.00	0.00	0.00	3.99	5.32	7.23	7.61	6.47					5.89	0.00	0.00
		N/A	N/A	N/A	N/A	Humboldt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00
		N/A	N/A	N/A	N/A	Kern	0.00	0.00	0.00	0.00	0.99	1.32	1.79	1.88	1.60					1.46	0.00	0.00
		N/A	N/A	N/A	N/A	Northern Coast	0.00	0.00	0.00	0.00	0.95	1.26	1.71	1.80	1.53					1.40	0.00	0.00
		N/A	N/A	N/A	N/A	Sierra	0.00	0.00	0.00	0.00	1.19	1.59	2.16	2.27	1.93					1.76	0.00	0.00
		N/A	N/A	N/A	N/A	Stockton	0.00	0.00	0.00	0.00	1.12	1.49	2.03	2.13	1.81					1.65	0.00	0.00
		N/A	N/A	N/A	N/A	Outside LCA	0.00	0.00	0.00	0.00	0.95	1.27	1.72	1.81	1.54					1.40	0.00	0.00
		N/A	N/A	N/A	N/A	**Total IOU Service Area**	**0.00**	**0.00**	**0.00**	**0.00**	**21.00**	**28.00**	**38.00**	**40.00**	**34.00**					**31.00**	**0.00**	**0.00**
Capacity Bidding Program Day Ahead (CBP DA) -- Residential	1	N/A	N/A	N/A	N/A	Greater Bay Area	0.00	0.00	0.00	0.00	3.53	3.53	7.07	7.07	7.07					3.53	0.00	0.00
		N/A	N/A	N/A	N/A	Greater Fresno Area	0.00	0.00	0.00	0.00	1.71	1.71	3.42	3.42	3.42					1.71	0.00	0.00
		N/A	N/A	N/A	N/A	Humboldt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00
		N/A	N/A	N/A	N/A	Kern	0.00	0.00	0.00	0.00	0.67	0.67	1.34	1.34	1.34					0.67	0.00	0.00
		N/A	N/A	N/A	N/A	Northern Coast	0.00	0.00	0.00	0.00	0.32	0.32	0.64	0.64	0.64					0.32	0.00	0.00
		N/A	N/A	N/A	N/A	Sierra	0.00	0.00	0.00	0.00	1.82	1.82	3.64	3.64	3.64					1.82	0.00	0.00
		N/A	N/A	N/A	N/A	Stockton	0.00	0.00	0.00	0.00	0.89	0.89	1.79	1.79	1.79					0.89	0.00	0.00
		N/A	N/A	N/A	N/A	Outside LCA	0.00	0.00	0.00	0.00	2.05	2.05	4.10	4.10	4.10					2.05	0.00	0.00
		N/A	N/A	N/A	N/A	**Total IOU Service Area**	**0.00**	**0.00**	**0.00**	**0.00**	**11.00**	**11.00**	**22.00**	**22.00**	**22.00**					**11.00**	**0.00**	**0.00**
Air Conditioning (AC) Cycling Residential	1	N/A	N/A	N/A	N/A	Greater Bay Area	0.00	0.00	0.00	0.00	7.25	11.83	12.36	12.16	11.40					5.37	0.00	0.00
		N/A	N/A	N/A	N/A	Greater Fresno Area	0.00	0.00	0.00	0.00	4.69	6.24	6.43	5.82	5.32					2.93	0.00	0.00
		N/A	N/A	N/A	N/A	Humboldt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00
		N/A	N/A	N/A	N/A	Kern	0.00	0.00	0.00	0.00	1.93	2.45	2.44	2.29	2.12					1.45	0.00	0.00
		N/A	N/A	N/A	N/A	Northern Coast	0.00	0.00	0.00	0.00	0.59	1.26	1.26	1.10	0.92					0.45	0.00	0.00
		N/A	N/A	N/A	N/A	Sierra	0.00	0.00	0.00	0.00	3.20	6.67	6.50	6.26	4.94					1.22	0.00	0.00
		N/A	N/A	N/A	N/A	Stockton	0.00	0.00	0.00	0.00	1.69	3.25	3.37	3.01	2.36					0.62	0.00	0.00
		N/A	N/A	N/A	N/A	Outside LCA	0.00	0.00	0.00	0.00	4.98	7.19	7.49	6.87	6.02					2.74	0.00	0.00
		N/A	N/A	N/A	N/A	**Total IOU Service Area**	**0.00**	**0.00**	**0.00**	**0.00**	**24.33**	**38.89**	**39.85**	**37.52**	**33.08**					**14.78**	**0.00**	**0.00**
2022 Total Event-Based/Supply-Side Programs		N/A	N/A	N/A	N/A	Greater Bay Area	9.34	8.59	9.26	9.96	33.11	41.86	51.46	52.29	48.20					36.52	9.26	9.02
		N/A	N/A	N/A	N/A	Greater Fresno Area	11.13	8.94	9.63	10.36	21.33	24.45	28.18	27.85	26.26					21.12	9.63	9.38
		N/A	N/A	N/A	N/A	Humboldt	CONFIDENTIAL															
		N/A	N/A	N/A	N/A	Kern																
		N/A	N/A	N/A	N/A	Northern Coast																
		N/A	N/A	N/A	N/A	Sierra																
		N/A	N/A	N/A	N/A	Stockton																
		N/A	N/A	N/A	N/A	Outside LCA	123.10	119.17	128.47	138.24	153.90	159.63	161.37	159.48	159.03					147.36	128.43	125.17
		78%	80%	82%	86%	**Total IOU Service Area**	**195.63**	**186.20**	**200.73**	**215.99**	**284.34**	**310.88**	**331.18**	**328.74**	**319.34**	**243.64**	**264.40**	**267.96**	**274.62**	**277.35**	**200.68**	**195.57**

Tab: “PG&E IOU ELCC Derate” (2 of 2)

Non Event-Based Programs/Demand-Side Programs							Jan-22	Feb-22	Mar-22	Apr-22	May-22					Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Critical Peak Pricing (CPP) -- Residential ("SmartRate")	0					Greater Bay Area	0.22	0.22	0.22	0.33	0.48					0.63	0.73	0.67	0.67	0.40	0.22	0.22
						Greater Fresno Area	0.25	0.25	0.25	1.11	1.34					1.71	1.79	1.70	1.57	1.05	0.25	0.25
						Humboldt	0.00	0.00	0.00	0.00	0.01					0.01	0.01	0.01	0.01	0.00	0.00	0.00
						Kern	0.12	0.12	0.12	0.49	0.52					0.68	0.68	0.64	0.61	0.43	0.12	0.12
						Northern Coast	0.07	0.07	0.07	0.08	0.15					0.19	0.21	0.20	0.19	0.11	0.07	0.07
						Sierra	0.36	0.36	0.36	0.46	0.66					0.92	0.98	0.90	0.82	0.39	0.36	0.36
						Stockton	0.22	0.22	0.22	0.33	0.53					0.71	0.78	0.71	0.67	0.35	0.22	0.22
						Outside LCA	0.50	0.50	0.50	0.79	1.15					1.56	1.66	1.54	1.42	0.74	0.50	0.50
						Total IOU Service Area	**1.74**	**1.74**	**1.74**	**3.60**	**4.85**					**6.43**	**6.83**	**6.37**	**5.96**	**3.48**	**1.74**	**1.74**
Critical Peak Pricing (CPP) -- Non-Residential ("Peak Day Pricing")	0					Greater Bay Area	1.38	1.38	1.39	1.39	2.92					2.71	2.63	2.66	2.67	3.13	1.40	1.40
						Greater Fresno Area	0.74	0.74	0.77	0.77	1.87					1.17	1.00	1.30	1.48	2.37	0.72	0.72
						Humboldt	0.01	0.01	0.01	0.01	0.02					0.02	0.02	0.02	0.02	0.02	0.01	0.01
						Kern	0.45	0.45	0.47	0.47	1.02					0.85	0.83	0.88	0.90	1.10	0.45	0.45
						Northern Coast	0.15	0.15	0.15	0.15	0.31					0.29	0.28	0.28	0.29	0.34	0.15	0.15
						Sierra	0.12	0.12	0.12	0.12	0.33					0.15	-0.19	0.18	0.28	0.66	0.11	0.11
						Stockton	0.11	0.11	0.11	0.11	0.37					0.10	-0.09	0.12	0.32	0.54	0.10	0.10
						Outside LCA	1.75	1.75	1.80	1.80	3.96					3.16	2.81	3.17	3.49	5.02	1.76	1.76
						Total IOU Service Area	**4.71**	**4.71**	**4.81**	**4.81**	**10.80**					**8.45**	**7.29**	**8.61**	**9.45**	**13.19**	**4.69**	**4.69**
Time of Use (TOU) Residential | Incremental	1					Greater Bay Area	21.90	20.64	19.97	15.57	19.36					39.53	40.17	39.99	41.09	20.59	20.73	24.31
						Greater Fresno Area	1.96	1.83	1.73	1.64	3.59					9.76	10.40	9.85	8.83	3.07	1.90	2.29
						Humboldt	0.07	0.06	0.07	0.06	0.06					0.29	0.29	0.30	0.30	0.06	0.07	0.07
						Kern	0.55	0.52	0.49	0.52	1.13					3.16	3.29	3.25	2.87	0.99	0.56	0.67
						Northern Coast	4.32	4.03	3.92	3.05	3.49					7.03	7.22	6.87	6.95	3.59	4.21	4.84
						Sierra	2.78	2.73	2.68	1.92	3.58					10.27	10.46	10.29	9.37	2.99	2.79	3.28
						Stockton	0.81	0.78	0.77	0.61	1.19					3.08	3.24	3.02	2.80	1.08	0.80	0.96
						Outside LCA	2.11	2.04	2.00	1.73	2.11					6.67	7.43	7.12	6.82	2.12	2.13	2.49
						Total IOU Service Area	**34.51**	**32.63**	**31.64**	**25.11**	**34.51**					**79.78**	**82.50**	**80.68**	**79.03**	**34.49**	**33.17**	**38.90**
Time of Use (TOU) Non-Residential | Incremental	1					Greater Bay Area	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Greater Fresno Area	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Humboldt	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Kern	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Northern Coast	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Sierra	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Stockton	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Outside LCA	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Total IOU Service Area	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**					**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2022 Total Non Event-Based/Load-Modifying Programs w/out Embedded Values						Greater Bay Area	23.50	22.24	21.58	17.29	22.75					42.88	43.53	43.32	44.43	24.13	22.35	25.93
						Greater Fresno Area	2.96	2.83	2.75	3.52	6.81					12.64	13.19	12.85	11.89	6.49	2.87	3.26
						Humboldt	0.08	0.08	0.08	0.07	0.08					0.32	0.31	0.32	0.32	0.09	0.08	0.08
						Kern	1.12	1.08	1.08	1.47	2.68					4.70	4.79	4.77	4.37	2.52	1.12	1.23
						Northern Coast	4.54	4.25	4.15	3.29	3.95					7.51	7.71	7.36	7.44	4.04	4.43	5.06
						Sierra	3.26	3.21	3.16	2.50	4.56					11.34	11.26	11.37	10.47	4.04	3.26	3.76
						Stockton	1.15	1.12	1.11	1.06	2.10					3.89	3.94	3.85	3.78	1.96	1.12	1.28
						Outside LCA	4.36	4.29	4.30	4.32	7.22					11.39	11.90	11.82	11.73	7.88	4.38	4.74
						Total IOU Service Area	**40.97**	**39.09**	**38.20**	**33.52**	**50.15**					**94.67**	**96.62**	**95.66**	**94.44**	**51.15**	**39.61**	**45.34**
2022 Total Event and Non Event-Based Programs/Load Supply-Side and Load Modifying Programs							**236.60**	**225.29**	**238.93**	**249.51**	**334.49**					**338.30**	**361.02**	**363.62**	**369.06**	**328.50**	**240.29**	**240.91**

Note: the above row had a summation error in the original file from the PUC website (it summed only the Greater Bay Area supply side value rather than all LCA supply side values). The CAISO corrected this error.

Tab: “PG&E Program ELCC Derate” (1 of 2)

DERATED BY PROGRAM-LEVEL ELCC (CAISO edits in red)
These are the original spreadsheets from the Resource Adequacy Compliance Materials webpage on the CPUC website with all changes shown in red text.
The Program-level ELCC values (columns C-F, linked from ELCC Results tab) are multiplied by the program-level DR allocations for the months Jun-Sep (columnns M-P) to determine derated values (columns Q-T). The updated totals are also shown.
"N/A" denotes rows not derated (derates are only applied to LCA-level programs with corresponding ELCC results).

PG&E DR Allocations for 2022 Estimated According to Load Impact Protocols (LIPs) Final Reports

Average of Hourly Ex Ante Load Impacts (MW) from 4-9 PM at Portfolio Level on Monthly Peak Load Days Under 1-in-2 Weather Year Conditions, Before Adjusting for Avoided Line Losses

Instructions: Please complete the Payments and Local Capacity Area (LCA) columns below. If payment for a program is from bundled customers only, enter 0. If payment is from distribution customers, enter 1.

Note: RA benefits for Non Event Event-Based Programs/Load Modifying Resources will be reflected in the CEC load forecast adjustments.

		ELCC Derates					Original Monthly NQC Values									ELCC Adjusted Values						
Event-Based Programs/Supply-Side Programs	Payment	ELCC % of Jun 2020	ELCC % of Jul 2020	ELCC % of Aug 2020	ELCC % of Sep 2020	Local Capacity Area (LCA)	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Base Interruptible Program (BIP) (Note: PG&E BIP ELCC was valued for all LCAs in aggregate due to confidential information)	1	75%	78%	79%	83%	Greater Bay Area	9.34	8.59	9.26	9.96	10.52	10.75	10.67	10.57	10.62	8.12	8.33	8.38	8.82	10.18	9.26	9.02
		75%	78%	79%	83%	Greater Fresno Area	11.13	8.94	9.63	10.36	10.94	11.18	11.10	11.00	11.05	8.44	8.67	8.72	9.18	10.58	9.63	9.38
		75%	78%	79%	83%	Humboldt	CONFIDENTIAL															
		75%	78%	79%	83%	Kern																
		75%	78%	79%	83%	Northern Coast																
		75%	78%	79%	83%	Sierra																
		75%	78%	79%	83%	Stockton																
		75%	78%	79%	83%	Outside LCA	123.10	119.17	128.47	138.24	145.92	149.12	148.05	146.70	147.37	112.58	115.64	116.28	122.39	141.17	128.43	125.17
		75%	78%	79%	83%	Total IOU Service Area	**195.63**	**186.2**	**200.73**	**215.99**	**228.01**	**232.99**	**231.33**	**229.22**	**230.26**	175.89	180.69	181.69	191.23	**220.57**	**200.68**	**195.57**
Capacity Bidding Program Day Ahead (CBP DA) -- Non-Residential	1	90%	90%	90%	90%	Greater Bay Area	0.00	0.00	0.00	0.00	11.81	15.75	21.37	22.50	19.12	14.22	19.30	20.31	17.27	17.43	0.00	0.00
		109%	109%	109%	109%	Greater Fresno Area	0.00	0.00	0.00	0.00	3.99	5.32	7.23	7.61	6.47	5.81	7.89	8.31	7.06	5.89	0.00	0.00
		N/A	N/A	N/A	N/A	Humboldt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		184%	184%	184%	184%	Kern	0.00	0.00	0.00	0.00	0.99	1.32	1.79	1.88	1.60	2.43	3.29	3.47	2.95	1.46	0.00	0.00
		462%	462%	462%	462%	Northern Coast	0.00	0.00	0.00	0.00	0.95	1.26	1.71	1.80	1.53	5.83	7.92	8.33	7.08	1.40	0.00	0.00
		40%	40%	40%	40%	Sierra	0.00	0.00	0.00	0.00	1.19	1.59	2.16	2.27	1.93	0.63	0.85	0.90	0.76	1.76	0.00	0.00
		N/A	N/A	N/A	N/A	Stockton	0.00	0.00	0.00	0.00	1.12	1.49	2.03	2.13	1.81	1.49	2.03	2.13	1.81	1.65	0.00	0.00
		327%	327%	327%	327%	Outside LCA	0.00	0.00	0.00	0.00	0.95	1.27	1.72	1.81	1.54	4.14	5.62	5.92	5.03	1.40	0.00	0.00
		N/A	N/A	N/A	N/A	Total IOU Service Area	**0.00**	**0.00**	**0.00**	**0.00**	**21.00**	**28.00**	**38.00**	**40.00**	**34.00**	**34.56**	**46.90**	**49.37**	**41.96**	**31.00**	**0.00**	**0.00**
Capacity Bidding Program Day Ahead (CBP DA) -- Residential	1	90%	90%	90%	90%	Greater Bay Area	0.00	0.00	0.00	0.00	3.53	3.53	7.07	7.07	7.07	3.19	6.38	6.38	6.38	3.53	0.00	0.00
		109%	109%	109%	109%	Greater Fresno Area	0.00	0.00	0.00	0.00	1.71	1.71	3.42	3.42	3.42	1.87	3.74	3.74	3.74	1.71	0.00	0.00
		N/A	N/A	N/A	N/A	Humboldt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		184%	184%	184%	184%	Kern	0.00	0.00	0.00	0.00	0.67	0.67	1.34	1.34	1.34	1.24	2.47	2.47	2.47	0.67	0.00	0.00
		462%	462%	462%	462%	Northern Coast	0.00	0.00	0.00	0.00	0.32	0.32	0.64	0.64	0.64	1.47	2.94	2.94	2.94	0.32	0.00	0.00
		40%	40%	40%	40%	Sierra	0.00	0.00	0.00	0.00	1.82	1.82	3.64	3.64	3.64	0.72	1.44	1.44	1.44	1.82	0.00	0.00
		N/A	N/A	N/A	N/A	Stockton	0.00	0.00	0.00	0.00	0.89	0.89	1.79	1.79	1.79	0.89	1.79	1.79	1.79	0.89	0.00	0.00
		327%	327%	327%	327%	Outside LCA	0.00	0.00	0.00	0.00	2.05	2.05	4.10	4.10	4.10	6.71	13.43	13.43	13.43	2.05	0.00	0.00
		N/A	N/A	N/A	N/A	Total IOU Service Area	**0.00**	**0.00**	**0.00**	**0.00**	**11.00**	**11.00**	**22.00**	**22.00**	**22.00**	**16.09**	**32.19**	**32.19**	**32.19**	**11.00**	**0.00**	**0.00**
Air Conditioning (AC) Cycling Residential	1	47%	44%	47%	50%	Greater Bay Area	0.00	0.00	0.00	0.00	7.25	11.83	12.36	12.16	11.40	5.52	5.43	5.68	5.68	5.37	0.00	0.00
		33%	33%	37%	42%	Greater Fresno Area	0.00	0.00	0.00	0.00	4.69	6.24	6.43	5.82	5.32	2.08	2.15	2.16	2.22	2.93	0.00	0.00
		N/A	N/A	N/A	N/A	Humboldt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		N/A	N/A	N/A	N/A	Kern	0.00	0.00	0.00	0.00	1.93	2.45	2.44	2.29	2.12	2.45	2.44	2.29	2.12	1.45	0.00	0.00
		23%	23%	23%	46%	Northern Coast	0.00	0.00	0.00	0.00	0.59	1.26	1.26	1.10	0.92	0.29	0.29	0.25	0.42	0.45	0.00	0.00
		68%	68%	68%	88%	Sierra	0.00	0.00	0.00	0.00	3.20	6.67	6.50	6.26	4.94	4.56	4.45	4.28	4.34	1.22	0.00	0.00
		64%	64%	64%	80%	Stockton	0.00	0.00	0.00	0.00	1.69	3.25	3.37	3.01	2.36	2.08	2.15	1.92	1.88	0.62	0.00	0.00
		56%	51%	56%	62%	Outside LCA	0.00	0.00	0.00	0.00	4.98	7.19	7.49	6.87	6.02	4.04	3.83	3.86	3.76	2.74	0.00	0.00
		N/A	N/A	N/A	N/A	Total IOU Service Area	**0.00**	**0.00**	**0.00**	**0.00**	**24.33**	**38.89**	**39.85**	**37.52**	**33.08**	**21.02**	**20.73**	**20.45**	**20.42**	**14.78**	**0.00**	**0.00**
2022 Total Event-Based/Supply-Side Programs		N/A	N/A	N/A	N/A	Greater Bay Area	9.34	8.59	9.26	9.96	33.11	41.86	51.46	52.29	48.20	31.05	39.44	40.75	38.14	36.52	9.26	9.02
		N/A	N/A	N/A	N/A	Greater Fresno Area	11.13	8.94	9.63	10.36	21.33	24.45	28.18	27.85	26.26	18.20	22.44	22.92	22.19	21.12	9.63	9.38
		N/A	N/A	N/A	N/A	Humboldt	CONFIDENTIAL															
		N/A	N/A	N/A	N/A	Kern																
		N/A	N/A	N/A	N/A	Northern Coast																
		N/A	N/A	N/A	N/A	Sierra																
		N/A	N/A	N/A	N/A	Stockton																
		N/A	N/A	N/A	N/A	Outside LCA	123.10	119.17	128.47	138.24	153.90	159.63	161.37	159.48	159.03	127.47	138.51	139.48	144.60	147.36	128.43	125.17
		N/A	N/A	N/A	N/A	Total IOU Service Area	**195.63**	**186.20**	**200.73**	**215.99**	**284.34**	**310.88**	**331.18**	**328.74**	**319.34**	**247.56**	**280.50**	**283.69**	**285.80**	**277.35**	**200.68**	**195.57**

Tab: “PG&E Program ELCC Derate” (2 of 2)

Non Event-Based Programs/Demand-Side Programs							Jan-22	Feb-22	Mar-22	Apr-22	May-22					Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Critical Peak Pricing (CPP) -- Residential ("SmartRate")	0					Greater Bay Area	0.22	0.22	0.22	0.33	0.48					0.63	0.73	0.67	0.67	0.40	0.22	0.22
						Greater Fresno Area	0.25	0.25	0.25	1.11	1.34					1.71	1.79	1.70	1.57	1.05	0.25	0.25
						Humboldt	0.00	0.00	0.00	0.00	0.01					0.01	0.01	0.01	0.01	0.00	0.00	0.00
						Kern	0.12	0.12	0.12	0.49	0.52					0.68	0.68	0.64	0.61	0.43	0.12	0.12
						Northern Coast	0.07	0.07	0.07	0.08	0.15					0.19	0.21	0.20	0.19	0.11	0.07	0.07
						Sierra	0.36	0.36	0.36	0.46	0.66					0.92	0.98	0.90	0.82	0.39	0.36	0.36
						Stockton	0.22	0.22	0.22	0.33	0.53					0.71	0.78	0.71	0.67	0.35	0.22	0.22
						Outside LCA	0.50	0.50	0.50	0.79	1.15					1.56	1.66	1.54	1.42	0.74	0.50	0.50
						Total IOU Service Area	**1.74**	**1.74**	**1.74**	**3.60**	**4.85**					**6.43**	**6.83**	**6.37**	**5.96**	**3.48**	**1.74**	**1.74**
Critical Peak Pricing (CPP) -- Non-Residential ("Peak Day Pricing")	0					Greater Bay Area	1.38	1.38	1.39	1.39	2.92					2.71	2.63	2.66	2.67	3.13	1.40	1.40
						Greater Fresno Area	0.74	0.74	0.77	0.77	1.87					1.17	1.00	1.30	1.48	2.37	0.72	0.72
						Humboldt	0.01	0.01	0.01	0.01	0.02					0.02	0.02	0.02	0.02	0.02	0.01	0.01
						Kern	0.45	0.45	0.47	0.47	1.02					0.85	0.83	0.88	0.90	1.10	0.45	0.45
						Northern Coast	0.15	0.15	0.15	0.15	0.31					0.29	0.28	0.28	0.29	0.34	0.15	0.15
						Sierra	0.12	0.12	0.12	0.12	0.33					0.15	-0.19	0.18	0.28	0.66	0.11	0.11
						Stockton	0.11	0.11	0.11	0.11	0.37					0.10	-0.09	0.12	0.32	0.54	0.10	0.10
						Outside LCA	1.75	1.75	1.80	1.80	3.96					3.16	2.81	3.17	3.49	5.02	1.76	1.76
						Total IOU Service Area	**4.71**	**4.71**	**4.81**	**4.81**	**10.80**					**8.45**	**7.29**	**8.61**	**9.45**	**13.19**	**4.69**	**4.69**
Time of Use (TOU) Residential | Incremental	1					Greater Bay Area	21.90	20.64	19.97	15.57	19.36					39.53	40.17	39.99	41.09	20.59	20.73	24.31
						Greater Fresno Area	1.96	1.83	1.73	1.64	3.59					9.76	10.40	9.85	8.83	3.07	1.90	2.29
						Humboldt	0.07	0.06	0.07	0.06	0.06					0.29	0.29	0.30	0.30	0.06	0.07	0.07
						Kern	0.55	0.52	0.49	0.52	1.13					3.16	3.29	3.25	2.87	0.99	0.56	0.67
						Northern Coast	4.32	4.03	3.92	3.05	3.49					7.03	7.22	6.87	6.95	3.59	4.21	4.84
						Sierra	2.78	2.73	2.68	1.92	3.58					10.27	10.46	10.29	9.37	2.99	2.79	3.28
						Stockton	0.81	0.78	0.77	0.61	1.19					3.08	3.24	3.02	2.80	1.08	0.80	0.96
						Outside LCA	2.11	2.04	2.00	1.73	2.11					6.67	7.43	7.12	6.82	2.12	2.13	2.49
						Total IOU Service Area	**34.51**	**32.63**	**31.64**	**25.11**	**34.51**					**79.78**	**82.50**	**80.68**	**79.03**	**34.49**	**33.17**	**38.90**
Time of Use (TOU) Non-Residential | Incremental	1					Greater Bay Area	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Greater Fresno Area	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Humboldt	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Kern	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Northern Coast	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Sierra	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Stockton	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Outside LCA	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Total IOU Service Area	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**					**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
2022 Total Non Event-Based/Load-Modifying Programs w/out Embedded Values						Greater Bay Area	23.50	22.24	21.58	17.29	22.75					42.88	43.53	43.32	44.43	24.13	22.35	25.93
						Greater Fresno Area	2.96	2.83	2.75	3.52	6.81					12.64	13.19	12.85	11.89	6.49	2.87	3.26
						Humboldt	0.08	0.08	0.08	0.07	0.08					0.32	0.31	0.32	0.32	0.09	0.08	0.08
						Kern	1.12	1.08	1.08	1.47	2.68					4.70	4.79	4.77	4.37	2.52	1.12	1.23
						Northern Coast	4.54	4.25	4.15	3.29	3.95					7.51	7.71	7.36	7.44	4.04	4.43	5.06
						Sierra	3.26	3.21	3.16	2.50	4.56					11.34	11.26	11.37	10.47	4.04	3.26	3.76
						Stockton	1.15	1.12	1.11	1.06	2.10					3.89	3.94	3.85	3.78	1.96	1.12	1.28
						Outside LCA	4.36	4.29	4.30	4.32	7.22					11.39	11.90	11.82	11.73	7.88	4.38	4.74
						Total IOU Service Area	**40.97**	**39.09**	**38.20**	**33.52**	**50.15**					**94.67**	**96.62**	**95.66**	**94.44**	**51.15**	**39.61**	**45.34**
2022 Total Event and Non Event-Based Programs/Load Supply-Side and Load Modifying Programs							**236.60**	**225.29**	**238.93**	**249.51**	**334.49**					**342.23**	**377.12**	**379.34**	**380.24**	**328.50**	**240.29**	**240.91**

Note: the above row had a summation error in the original file from the PUC website (it summed only the Greater Bay Area supply side value rather than all LCA supply side values). The CAISO corrected this error.

Tab: “SCE IOU ELCC Derate”

DERATED BY IOU-LEVEL ELCC (CAISO edits in red)
These are the original spreadsheets from the Resource Adequacy Compliance Materials webpage on the CPUC website with all changes shown in red text.
The IOU-level ELCC values (columns C-F, linked from ELCC Results tab) are multiplied by the Total Supply-Side Resources DR allocations for the months Jun-Sep (M-P) to determine the derated portfolio totals (Q-T).
The program-level derates are to be determined by the IOU such that the program-level allocations sum to the derated total (therefore the program-level allocations are left blank).
"N/A" denotes rows not derated (derates are only applied to IOU portfolio in aggregate).

SCE DR for 2022 Estimated According to Load Impact Protocols (LIPs) Final Reports

Average of Hourly Ex Ante Load Impacts (MW) from 4-9 PM at Portfolio Level on Monthly Peak Load Days Under 1-in-2 Weather Year Conditions, Before Adjusting for Avoided Line Losses

Instructions: Please complete the Payments and Local Capacity Area (LCA) columns below. If payment for a program is from bundled customers only, enter 0. If payment is from distribution customers, enter 1.

Note: RA benefits for Non Event Event-Based Programs/Load Modifying Resources will be reflected in the CEC load forecast adjustments.

		ELCC Derates					Original Monthly NQC Values					ELCC Adjusted Values						
Event-Based Programs/Supply-Side Resources	Payments	ELCC % of Jun 2020	ELCC % of Jul 2020	ELCC % of Aug 2020	ELCC % of Sep 2020	Local Capacity Area (LCA)	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Base Interruptible Program (BIP) 15 min	1	N/A	N/A	N/A	N/A	LA Basin	CONFIDENTIAL															
		N/A	N/A	N/A	N/A	Big Creek/Ventura																
		N/A	N/A	N/A	N/A	Outside LCA	44.15	49.66	50.34	56.12	58.42	55.63	59.06	54.05	58.46					63.49	63.47	52.24
		N/A	N/A	N/A	N/A	Total IOU Service Area	144.60	156.50	144.70	156.70	164.80	167.10	166.70	168.10	167.90					167.10	173.20	153.00
Base Interruptible Program (BIP) 30 min	1	N/A	N/A	N/A	N/A	LA Basin	313.82	339.19	315.66	317.91	304.58	312.52	298.46	309.38	308.12					306.11	318.48	292.22
		N/A	N/A	N/A	N/A	Big Creek/Ventura	CONFIDENTIAL															
		N/A	N/A	N/A	N/A	Outside LCA																
		N/A	N/A	N/A	N/A	Total IOU Service Area	373.60	397.70	372.00	388.00	373.90	382.20	359.90	375.10	378.30					368.70	376.60	354.20
Agricultural and Pumping Interruptible (API)	1	N/A	N/A	N/A	N/A	LA Basin	3.07	3.14	3.87	4.44	4.55	4.74	4.92	4.96	5.01					4.77	4.66	3.71
		N/A	N/A	N/A	N/A	Big Creek/Ventura	7.36	6.90	9.92	16.81	19.28	25.04	25.11	25.41	23.74					18.77	11.03	7.39
		N/A	N/A	N/A	N/A	Outside LCA	0.13	0.12	0.47	1.62	1.85	2.07	2.04	2.01	1.90					1.44	0.85	-0.13
		N/A	N/A	N/A	N/A	Total IOU Service Area	10.60	10.20	14.30	22.90	25.70	31.90	32.10	32.40	30.70					25.00	16.50	11.00
Capacity Bidding Program Day Of (CBP DO)	1	N/A	N/A	N/A	N/A	LA Basin	0.23	0.23	0.23	0.23	CONFIDENTIAL										0.23	0.23
		N/A	N/A	N/A	N/A	Big Creek/Ventura	0.51	0.51	0.51	0.51	0.85	0.85	0.85	0.85	0.85					0.85	0.51	0.51
		N/A	N/A	N/A	N/A	Outside LCA	0.00	0.00	0.00	0.00	CONFIDENTIAL										0.00	0.00
		N/A	N/A	N/A	N/A	Total IOU Service Area	0.70	0.70	0.70	0.70	3.80	3.80	3.80	3.80	3.80					3.80	0.70	0.70
Capacity Bidding Program Day Ahead (CBP DA)	1	N/A	N/A	N/A	N/A	LA Basin	0.00	0.00	0.00	0.00	CONFIDENTIAL										0.00	0.00
		N/A	N/A	N/A	N/A	Big Creek/Ventura	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.44	0.44					0.44	0.00	0.00
		N/A	N/A	N/A	N/A	Outside LCA	0.00	0.00	0.00	0.00	CONFIDENTIAL										0.00	0.00
		N/A	N/A	N/A	N/A	Total IOU Service Area	0.00	0.00	0.00	0.00	3.80	3.80	3.80	3.80	3.80					3.80	0.00	0.00
AC Cycling ("Summer Discount Plan") Commercial	1	N/A	N/A	N/A	N/A	LA Basin	0.00	0.00	2.08	8.70	8.86	8.40	11.62	11.97	13.15					11.19	8.33	0.00
		N/A	N/A	N/A	N/A	Big Creek/Ventura	0.00	0.00	0.26	1.98	2.21	2.66	3.30	3.35	3.30					2.62	1.70	0.00
		N/A	N/A	N/A	N/A	Outside LCA	0.00	0.00	0.00	0.63	0.83	1.07	1.38	1.14	1.13					0.63	0.32	0.00
		N/A	N/A	N/A	N/A	Total IOU Service Area	0.00	0.00	2.30	11.30	11.90	12.10	16.30	16.50	17.60					14.40	10.30	0.00
AC Cycling ("Summer Discount Plan") Residential	1	N/A	N/A	N/A	N/A	LA Basin	0.00	0.00	0.00	31.22	33.62	47.21	98.93	116.22	124.22					70.32	26.05	0.00
		N/A	N/A	N/A	N/A	Big Creek/Ventura	0.00	0.00	0.00	0.25	1.54	12.23	18.02	18.36	15.46					3.95	1.19	0.00
		N/A	N/A	N/A	N/A	Outside LCA	0.00	0.00	0.00	0.00	0.49	5.41	9.10	7.43	5.87					0.00	0.00	0.00
		N/A	N/A	N/A	N/A	Total IOU Service Area	0.00	0.00	0.00	31.50	35.60	64.90	126.00	142.00	145.50					74.30	27.20	0.00
Peak Time Rebate (PTR) ("Smart Energy Program," previously "Save Power Day")	0	N/A	N/A	N/A	N/A	LA Basin	0.00	0.00	0.00	12.45	15.01	18.74	35.65	39.28	39.43					26.53	16.40	0.00
		N/A	N/A	N/A	N/A	Big Creek/Ventura	0.00	0.00	0.00	0.00	2.40	3.94	6.14	6.27	5.49					2.88	0.00	0.00
		N/A	N/A	N/A	N/A	Outside LCA	0.00	0.00	0.00	0.00	0.40	0.74	1.26	1.03	0.89					0.00	0.00	0.00
		N/A	N/A	N/A	N/A	Total IOU Service Area	0.00	0.00	0.00	12.40	17.80	23.40	43.00	46.60	46.00					29.40	16.40	0.00
LCR		N/A	N/A	N/A	N/A																	
2022 Total Event-Based Programs/Supply-Side Resources		N/A	N/A	N/A	N/A	LA Basin	377.93	407.35	383.09	437.42	437.91	465.36	519.74	555.11	564.56					489.42	439.01	355.79
		N/A	N/A	N/A	N/A	Big Creek/Ventura	80.03	81.28	75.94	91.49	105.33	126.17	131.19	134.52	122.29					99.52	90.71	80.09
		N/A	N/A	N/A	N/A	Outside LCA	71.55	76.43	75.02	94.66	94.06	97.66	100.72	98.70	106.56					97.55	91.40	83.03
		85%	84%	79%	83%	Total IOU Service Area	529.50	565.10	534.00	623.50	637.30	689.20	751.60	788.30	793.60	582.91	630.34	622.75	655.96	686.50	620.90	518.90
Non Event-Based Programs/Load Modifying Resources	Payments					Local Capacity Area (LCA)	Jan-22	Feb-22	Mar-22	Apr-22	May-22					Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Critical Peak Pricing (CPP) Medium and Small Customers	0					LA Basin	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Big Creek/Ventura	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Outside LCA	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
						Total IOU Service Area	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
Critical Peak Pricing (CPP) Large Customers	0					LA Basin	7.08	7.08	7.13	7.71	7.87					7.61	7.58	7.68	7.67	8.14	7.31	7.08
						Big Creek/Ventura	CONFIDENTIAL															
						Outside LCA																
						Total IOU Service Area	8.10	8.10	8.10	8.80	9.00					8.70	8.60	8.70	8.70	9.30	8.30	8.10
Real Time Pricing (RTP)	0					LA Basin	0.11	0.07	0.25	0.30	0.26					0.65	-0.03	-0.20	-0.36	0.24	0.07	0.01
						Big Creek/Ventura	CONFIDENTIAL															
						Outside LCA																
						Total IOU Service Area	0.10	0.10	0.20	0.30	0.30					0.60	0.00	-0.20	-0.30	0.20	0.10	0.00
2022 Total Non Event-Based Programs/Load Modifying Resources						LA Basin	7.20	7.15	7.38	8.01	8.13					8.26	7.54	7.47	7.31	8.38	7.37	7.09
						Big Creek/Ventura	0.23	0.23	0.23	0.25	0.26					0.26	0.28	0.29	0.29	0.26	0.24	0.23
						Outside LCA	0.75	75.00	0.76	0.82	.83.					0.80	0.79	0.80	0.80	0.86	0.78	0.75
						Total IOU Service Area	8.20	8.20	8.30	9.10	9.30					9.30	8.60	8.50	8.40	9.50	8.40	8.10
2022 Total Event and Non Event-Based Programs							537.70	573.30	542.30	632.60	646.60					592.21	638.94	631.25	664.36	696.00	629.30	527.00

Tab: “SCE Program ELCC Derate”

DERATED BY PROGRAM-LEVEL ELCC (CAISO edits in red)
These are the original spreadsheets from the Resource Adequacy Compliance Materials webpage on the CPUC website with all changes shown in red text.
The Program-level ELCC values (columns C-F, linked from ELCC Results tab) are multiplied by the program-level DR allocations for the months Jun-Sep (columnns M-P) to determine derated values (columns Q-T). The updated totals are also shown.
"N/A" denotes rows not derated (derates are only applied to LCA-level programs with corresponding ELCC results). "?" denotes totals that cannot be summed due to lack of information (confidential data).

SCE DR for 2022 Estimated According to Load Impact Protocols (LIPs) Final Reports

Average of Hourly Ex Ante Load Impacts (MW) from 4-9 PM at Portfolio Level on Monthly Peak Load Days Under 1-in-2 Weather Year Conditions, Before Adjusting for Avoided Line Losses

Instructions: Please complete the Payments and Local Capacity Area (LCA) columns below. If payment for a program is from bundled customers only, enter 0. If payment is from distribution customers, enter 1.

Note: RA benefits for Non Event Event-Based Programs/Load Modifying Resources will be reflected in the CEC load forecast adjustments.

		ELCC Derates					Original Monthly NQC Values					ELCC Adjusted Values						
Event-Based Programs/Supply-Side Resources	Payments	ELCC % of Jun 2020	ELCC % of Jul 2020	ELCC % of Aug 2020	ELCC % of Sep 2020	Local Capacity Area (LCA)	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Base Interruptible Program (BIP) 15 min	1	75%	78%	75%	76%	LA Basin	CONFIDENTIAL															
		63%	65%	65%	60%	Big Creek/Ventura																
		117%	126%	129%	122%	Outside LCA	44.15	49.66	50.34	56.12	58.42	55.63	59.06	54.05	58.46	64.82	74.46	69.93	71.29	63.49	63.47	52.24
		N/A	N/A	N/A	N/A	Total IOU Service Area	**144.60**	**156.50**	**144.70**	**156.70**	**164.80**	**167.10**	**166.70**	**168.10**	**167.90**	?	?	?	?	**167.10**	**173.20**	**153.00**
Base Interruptible Program (BIP) 30 min	1	75%	78%	75%	76%	LA Basin	313.82	339.19	315.66	317.91	304.58	312.52	298.46	309.38	308.12	234.36	232.87	230.65	235.24	306.11	318.48	292.22
		63%	65%	65%	60%	Big Creek/Ventura	CONFIDENTIAL															
		117%	126%	129%	122%	Outside LCA																
		N/A	N/A	N/A	N/A	Total IOU Service Area	**373.60**	**397.70**	**372.00**	**388.00**	**373.90**	**382.20**	**359.90**	**375.10**	**378.30**	?	?	?	?	**368.70**	**376.60**	**354.20**
Agricultural and Pumping Interruptible (API)	1	73%	63%	59%	63%	LA Basin	3.07	3.14	3.87	4.44	4.55	4.74	4.92	4.96	5.01	3.47	3.12	2.94	3.18	4.77	4.66	3.71
		98%	102%	100%	153%	Big Creek/Ventura	7.36	6.90	9.92	16.81	19.28	25.04	25.11	25.41	23.74	24.59	25.68	25.38	36.34	18.77	11.03	7.39
		80%	79%	80%	85%	Outside LCA	0.13	0.12	0.47	1.62	1.85	2.07	2.04	2.01	1.90	1.66	1.61	1.61	1.62	1.44	0.85	-0.13
		N/A	N/A	N/A	N/A	Total IOU Service Area	**10.60**	**10.20**	**14.30**	**22.90**	**25.70**	**31.90**	**32.10**	**32.40**	**30.70**	**29.72**	**30.41**	**29.93**	**41.14**	**25.00**	**16.50**	**11.00**
Capacity Bidding Program Day Of (CBP DO)	1	54%	54%	54%	54%	LA Basin	0.23	0.23	0.23	0.23	CONFIDENTIAL										0.23	0.23
		15%	15%	15%	15%	Big Creek/Ventura	0.51	0.51	0.51	0.51	0.85	0.85	0.85	0.85	0.85	0.13	0.13	0.13	0.13	0.85	0.51	0.51
		30%	30%	30%	30%	Outside LCA	0.00	0.00	0.00	0.00	CONFIDENTIAL										0.00	0.00
		N/A	N/A	N/A	N/A	Total IOU Service Area	**0.70**	**0.70**	**0.70**	**0.70**	**3.80**	**3.80**	**3.80**	**3.80**	**3.80**	?	?	?	?	**3.80**	**0.70**	**0.70**
Capacity Bidding Program Day Ahead (CBP DA)	1	54%	54%	54%	54%	LA Basin	0.00	0.00	0.00	0.00	CONFIDENTIAL										0.00	0.00
		15%	15%	15%	15%	Big Creek/Ventura	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.44	0.44	0.07	0.07	0.07	0.07	0.44	0.00	0.00
		30%	30%	30%	30%	Outside LCA	0.00	0.00	0.00	0.00	CONFIDENTIAL										0.00	0.00
		N/A	N/A	N/A	N/A	Total IOU Service Area	**0.00**	**0.00**	**0.00**	**0.00**	**3.80**	**3.80**	**3.80**	**3.80**	**3.80**	?	?	?	?	**3.80**	**0.00**	**0.00**
AC Cycling ("Summer Discount Plan") Commercial	1	117%	91%	74%	88%	LA Basin	0.00	0.00	2.08	8.70	8.86	8.40	11.62	11.97	13.15	9.84	10.53	8.88	11.53	11.19	8.33	0.00
		69%	55%	51%	72%	Big Creek/Ventura	0.00	0.00	0.26	1.98	2.21	2.66	3.30	3.35	3.30	1.85	1.83	1.72	2.37	2.62	1.70	0.00
		110%	71%	72%	93%	Outside LCA	0.00	0.00	0.00	0.63	0.83	1.07	1.38	1.14	1.13	1.18	0.97	0.82	1.05	0.63	0.32	0.00
		N/A	N/A	N/A	N/A	Total IOU Service Area	**0.00**	**0.00**	**2.30**	**11.30**	**11.90**	**12.10**	**16.30**	**16.50**	**17.60**	**12.86**	**13.33**	**11.42**	**14.94**	**14.40**	**10.30**	**0.00**
AC Cycling ("Summer Discount Plan") Residential	1	117%	91%	74%	88%	LA Basin	0.00	0.00	0.00	31.22	33.62	47.21	98.93	116.22	124.22	55.29	89.63	86.24	108.91	70.32	26.05	0.00
		69%	55%	51%	72%	Big Creek/Ventura	0.00	0.00	0.00	0.25	1.54	12.23	18.02	18.36	15.46	8.48	9.97	9.41	11.07	3.95	1.19	0.00
		110%	71%	72%	93%	Outside LCA	0.00	0.00	0.00	0.00	0.49	5.41	9.10	7.43	5.87	5.97	6.44	5.35	5.45	0.00	0.00	0.00
		N/A	N/A	N/A	N/A	Total IOU Service Area	**0.00**	**0.00**	**0.00**	**31.50**	**35.60**	**64.90**	**126.00**	**142.00**	**145.50**	**69.74**	**106.04**	**101.00**	**125.42**	**74.30**	**27.20**	**0.00**
Peak Time Rebate (PTR) ("Smart Energy Program," previously "Save Power Day")	0	51%	47%	38%	41%	LA Basin	0.00	0.00	0.00	12.45	15.01	18.74	35.65	39.28	39.43	9.48	16.80	14.75	16.13	26.53	16.40	0.00
		49%	46%	38%	47%	Big Creek/Ventura	0.00	0.00	0.00	0.00	2.40	3.94	6.14	6.27	5.49	1.94	2.80	2.36	2.57	2.88	0.00	0.00
		60%	56%	56%	65%	Outside LCA	0.00	0.00	0.00	0.00	0.40	0.74	1.26	1.03	0.89	0.44	0.70	0.57	0.58	0.00	0.00	0.00
		N/A	N/A	N/A	N/A	Total IOU Service Area	**0.00**	**0.00**	**0.00**	**12.40**	**17.80**	**23.40**	**43.00**	**46.60**	**46.00**	**11.86**	**20.30**	**17.68**	**19.29**	**29.40**	**16.40**	**0.00**
LCR		85%	85%	85%	80%																	
2022 Total Event-Based Programs/Supply-Side Resources		N/A	N/A	N/A	N/A	LA Basin	**377.93**	**407.35**	**383.09**	**437.42**	**437.91**	**465.36**	**519.74**	**555.11**	**564.56**	?	?	?	?	**489.42**	**439.01**	**355.79**
		N/A	N/A	N/A	N/A	Big Creek/Ventura	**80.03**	**81.28**	**75.94**	**91.49**	**105.33**	**126.17**	**131.19**	**134.52**	**122.29**	?	?	?	?	**99.52**	**90.71**	**80.09**
		N/A	N/A	N/A	N/A	Outside LCA	**71.55**	**76.43**	**75.02**	**94.66**	**94.06**	**97.66**	**100.72**	**98.70**	**106.56**	?	?	?	?	**97.55**	**91.40**	**83.03**
		N/A	N/A	N/A	N/A	Total IOU Service Area	**529.50**	**565.10**	**534.00**	**623.50**	**637.30**	**689.20**	**751.60**	**788.30**	**793.60**	?	?	?	?	**686.50**	**620.90**	**518.90**

Non Event-Based Programs/Load Modifying Resources	Payments	Local Capacity Area (LCA)	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Critical Peak Pricing (CPP) Medium and Small Customers	0	LA Basin	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Big Creek/Ventura	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Outside LCA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Total IOU Service Area	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Critical Peak Pricing (CPP) Large Customers	0	LA Basin	7.08	7.08	7.13	7.71	7.87	7.61	7.58	7.68	7.67	8.14	7.31	7.08
		Big Creek/Ventura	CONFIDENTIAL											
		Outside LCA												
		Total IOU Service Area	**8.10**	**8.10**	**8.10**	**8.80**	**9.00**	**8.70**	**8.60**	**8.70**	**8.70**	**9.30**	**8.30**	**8.10**
Real Time Pricing (RTP)	0	LA Basin	0.11	0.07	0.25	0.30	0.26	0.65	-0.03	-0.20	-0.36	0.24	0.07	0.01
		Big Creek/Ventura	CONFIDENTIAL											
		Outside LCA												
		Total IOU Service Area	**0.10**	**0.10**	**0.20**	**0.30**	**0.30**	**0.60**	**0.00**	**-0.20**	**-0.30**	**0.20**	**0.10**	**0.00**
2022 Total Non Event-Based Programs/Load Modifying Resources		LA Basin	**7.20**	**7.15**	**7.38**	**8.01**	**8.13**	**8.26**	**7.54**	**7.47**	**7.31**	**8.38**	**7.37**	**7.09**
		Big Creek/Ventura	**0.23**	**0.23**	**0.23**	**0.25**	**0.26**	**0.26**	**0.28**	**0.29**	**0.29**	**0.26**	**0.24**	**0.23**
		Outside LCA	**0.75**	**75.00**	**0.76**	**0.82**	**.83.**	**0.80**	**0.79**	**0.80**	**0.80**	**0.86**	**0.78**	**0.75**
		Total IOU Service Area	**8.20**	**8.20**	**8.30**	**9.10**	**9.30**	**9.30**	**8.60**	**8.50**	**8.40**	**9.50**	**8.40**	**8.10**
2022 Total Event and Non Event-Based Programs			**537.70**	**573.30**	**542.30**	**632.60**	**646.60**	?	?	?	?	**696.00**	**629.30**	**527.00**

Tab: “SDG&E IOU ELCC Derate”

DERATED BY IOU-LEVEL ELCC (CAISO edits in red)
These are the original spreadsheets from the Resource Adequacy Compliance Materials webpage on the CPUC website with all changes shown in red text.
The IOU-level ELCC values (columns C-F, linked from ELCC Results tab) are multiplied by the Total Supply-Side Resources DR allocations for the months Jun-Sep (L-O) to determine the derated portfolio totals (P-S).
The program-level derates are to be determined by the IOU such that the program-level allocations sum to the derated total (therefore the program-level allocations are left blank).
"N/A" denotes rows not derated (derates are only applied to IOU portfolio in aggregate).

SDG&E DR Allocations for PY2022, Estimated According to Load Impact Protocols (LIPs) Final Reports

Average of Hourly Ex Ante Load Impacts (MW) from 4-9 PM at Portfolio Level on Monthly Peak Load Days Under 1-in-2 Weather Year Conditions, Before Adjusting for Avoided Line Losses

Instructions: Please complete the Payments and Local Capacity Area (LCA) columns below. If payment for a program is from bundled customers only, enter 1. If payment is from distribution customers, enter 1.

Note: RA benefits for Non Event Event-Based Programs/Load Modifying Resources will be reflected in the CEC load forecast adjustments.

		ELCC Derates									Original Monthly NQC Values				ELCC Adjusted Values						
Event-Based Programs/Supply-Side Resources	**Payments**	**ELCC % of Jun 2020**	**ELCC % of Jul 2020**	**ELCC % of Aug 2020**	**ELCC % of Sep 2020**	**Jan-22**	**Feb-22**	**Mar-22**	**Apr-22**	**May-22**	**Jun-22**	**Jul-22**	**Aug-22**	**Sep-22**	**Jun-22**	**Jul-22**	**Aug-22**	**Sep-22**	**Oct-22**	**Nov-22**	**Dec-22**
BIP	1	N/A	N/A	N/A	N/A	0.99	0.84	1.10	1.01	0.98	1.16	1.10	1.09	1.21					1.03	1.16	0.80
CBP Day Of	1	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00	3.36	3.36	3.36	3.36	3.36					3.36	0.00	0.00
CBP Day Ahead	1	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.22	0.22					0.22	0.00	0.00
Air Conditioning (AC) Cycling Day Of ("AC Saver DO") -- Commercial	1	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.18	0.26	0.20	0.41	0.50	0.60					0.41	0.00	0.00
Air Conditioning (AC) Cycling Day Of ("AC Saver DO") -- Residential	1	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.23	0.02	1.02	1.54	1.88					1.01	0.00	0.00
Air Conditioning (AC) Day Ahead ("AC Saver DA") -- Commercial	1	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.38	0.55	0.51	0.88	1.10	1.25					0.78	0.15	0.00
Air Conditioning (AC) Day Ahead ("AC Saver DA") -- Residential	1	N/A	N/A	N/A	N/A	0.00	0.00	0.00	2.13	3.41	2.97	5.74	7.75	9.49					5.27	0.70	0.00
2022 Total Event Based Programs/Supply-Side Resources		**88%**	**63%**	**54%**	**49%**	**0.99**	**0.84**	**1.11**	**3.71**	**8.99**	**8.44**	**12.71**	**15.55**	**18.00**	**7.43**	**7.99**	**8.44**	**8.90**	**12.06**	**2.01**	**0.80**
Non Event-Based Programs/Load Modifying Resources	**Payments**					**Jan-22**	**Feb-22**	**Mar-22**	**Apr-22**	**May-22**					**Jun-22**	**Jul-22**	**Aug-22**	**Sep-22**	**Oct-22**	**Nov-22**	**Dec-22**
CPP-D Large	1*					2.10	2.10	2.10	2.05	2.04					2.04	4.02	3.01	3.50	2.01	2.06	2.10
CPP-D Medium	1*					0.00	0.00	0.00	0.00	0.00					0.00	0.00	-0.69	1.71	-1.08	0.00	0.00
EV-TOU 2	0					1.30	1.27	0.07	0.08	1.08					0.71	1.04	1.14	1.47	0.91	1.20	1.37
EV-TOU 5	0					4.28	4.30	2.09	2.02	3.95					5.29	6.60	6.99	8.64	6.20	4.59	5.03
TOU-1	0					1.78	0.07	-0.44	4.01	3.94					4.23	8.81	13.04	15.31	10.41	3.71	2.56
TOU-2	0					0.11	0.11	0.04	0.21	0.28					0.44	0.61	0.57	0.62	0.33	0.21	0.17
TOU and CPP Small Agricultural (w/out TD)	1*					0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOU and CPP Small Commercial (w/out TD)	1*					-0.04	-0.04	-0.04	-0.05	-0.05					-0.05	-0.06	-0.06	-0.06	-0.05	-0.04	-0.04
CPP Small, Large and Medium on TD	1					0.00	0.00	0.00	0.03	0.05					0.04	0.07	0.11	0.15	0.08	0.01	0.00
TOU and CPP Residential (Voluntary, w/out TD)	1*					0.09	0.08	0.06	0.06	0.07					0.08	0.11	0.12	0.13	0.10	0.08	0.09
TOU and CPP Grandfather Residential (Voluntary, w/TD)	1*					0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
CPP Residential on TD	1					0.03	0.02	0.03	0.03	0.03					0.03	0.04	0.04	0.04	0.03	0.03	0.03
2022 Total Non Event-Based Programs/Load Modifying Resources						**9.64**	**7.92**	**3.92**	**8.45**	**11.38**					**12.81**	**21.24**	**24.26**	**31.51**	**18.93**	**11.85**	**11.30**
2022 Total Event and Non Event-Based Programs						**10.63**	**8.76**	**5.03**	**12.16**	**20.37**					**20.24**	**29.24**	**32.71**	**40.41**	**30.99**	**13.86**	**12.11**

Payment$ - if payment for this program is from bundled customers only, enter 0, if all distribution customers, enter 1
* CPP Implementation costs recovered from all customers, and annual over- or under-collections are recovered from only bundled customers.
Load impact benefits are applied to the peak Load Forecast.

Tab: “SDG&E Program ELCC Derate”

DERATED BY PROGRAM-LEVEL ELCC (CAISO edits in red)
These are the original spreadsheets from the Resource Adequacy Compliance Materials webpage on the CPUC website with all changes shown in red text.
The Program-level ELCC values (columns C-F, linked from ELCC Results tab) are multiplied by the program-level DR allocations for the months Jun-Sep (columnns L-O) to determine derated values (columns P-S). The updated totals are also shown.
"N/A" denotes rows not derated (derates are only applied to LCA-level programs with corresponding ELCC results).

SDG&E DR Allocations for PY2022, Estimated According to Load Impact Protocols (LIPs) Final Reports

Average of Hourly Ex Ante Load Impacts (MW) from 4-9 PM at Portfolio Level on Monthly Peak Load Days Under 1-in-2 Weather Year Conditions, Before Adjusting for Avoided Line Losses

Instructions: Please complete the Payments and Local Capacity Area (LCA) columns below. If payment for a program is from bundled customers only, enter 1. If payment is from distribution customers, enter 1.

Note: RA benefits for Non Event Event-Based Programs/Load Modifying Resources will be reflected in the CEC load forecast adjustments.

		ELCC Derates									Original Monthly NQC Values				ELCC Adjusted Values						
Event-Based Programs/Supply-Side Resources	**Payments**	**ELCC % of Jun 2020**	**ELCC % of Jul 2020**	**ELCC % of Aug 2020**	**ELCC % of Sep 2020**	**Jan-22**	**Feb-22**	**Mar-22**	**Apr-22**	**May-22**	**Jun-22**	**Jul-22**	**Aug-22**	**Sep-22**	**Jun-22**	**Jul-22**	**Aug-22**	**Sep-22**	**Oct-22**	**Nov-22**	**Dec-22**
BIP	1	67%	67%	67%	62%	0.99	0.84	1.10	1.01	0.98	1.16	1.10	1.09	1.21	0.78	0.74	0.73	0.74	1.03	1.16	0.80
CBP Day Of	1	78%	78%	78%	78%	0.00	0.00	0.00	0.00	3.36	3.36	3.36	3.36	3.36	2.63	2.63	2.63	2.63	3.36	0.00	0.00
CBP Day Ahead	1	215%	215%	215%	215%	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.22	0.22	0.47	0.46	0.46	0.46	0.22	0.00	0.00
Air Conditioning (AC) Cycling Day Of ("AC Saver DO") -- Commercial	1	314%	58%	42%	35%	0.00	0.00	0.00	0.18	0.26	0.20	0.41	0.50	0.60	0.63	0.24	0.21	0.21	0.41	0.00	0.00
Air Conditioning (AC) Cycling Day Of ("AC Saver DO") -- Residential	1	314%	58%	42%	35%	0.00	0.00	0.00	0.00	0.23	0.02	1.02	1.54	1.88	0.06	0.59	0.64	0.65	1.01	0.00	0.00
Air Conditioning (AC) Day Ahead ("AC Saver DA") -- Commercial	1	66%	55%	49%	46%	0.00	0.00	0.00	0.38	0.55	0.51	0.88	1.10	1.25	0.34	0.49	0.54	0.58	0.78	0.15	0.00
Air Conditioning (AC) Day Ahead ("AC Saver DA") -- Residential	1	66%	55%	49%	46%	0.00	0.00	0.00	2.13	3.41	2.97	5.74	7.75	9.49	1.96	3.18	3.82	4.40	5.27	0.70	0.00
2022 Total Event Based Programs/Supply-Side Resources		N/A	N/A	N/A	N/A	**0.99**	**0.84**	**1.11**	**3.71**	**8.99**	**8.44**	**12.71**	**15.55**	**18.00**	**6.86**	**8.32**	**9.04**	**9.67**	**12.06**	**2.01**	**0.80**

Non Event-Based Programs/Load Modifying Resources	**Payments**	**Jan-22**	**Feb-22**	**Mar-22**	**Apr-22**	**May-22**	**Jun-22**	**Jul-22**	**Aug-22**	**Sep-22**	**Oct-22**	**Nov-22**	**Dec-22**
CPP-D Large	1*	2.10	2.10	2.10	2.05	2.04	2.04	4.02	3.01	3.50	2.01	2.06	2.10
CPP-D Medium	1*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.69	1.71	-1.08	0.00	0.00
EV-TOU 2	0	1.30	1.27	0.07	0.08	1.08	0.71	1.04	1.14	1.47	0.91	1.20	1.37
EV-TOU 5	0	4.28	4.30	2.09	2.02	3.95	5.29	6.60	6.99	8.64	6.20	4.59	5.03
TOU-1	0	1.78	0.07	-0.44	4.01	3.94	4.23	8.81	13.04	15.31	10.41	3.71	2.56
TOU-2	0	0.11	0.11	0.04	0.21	0.28	0.44	0.61	0.57	0.62	0.33	0.21	0.17
TOU and CPP Small Agricultural (w/out TD)	1*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOU and CPP Small Commercial (w/out TD)	1*	-0.04	-0.04	-0.04	-0.05	-0.05	-0.05	-0.06	-0.06	-0.06	-0.05	-0.04	-0.04
CPP Small, Large and Medium on TD	1	0.00	0.00	0.00	0.03	0.05	0.04	0.07	0.11	0.15	0.08	0.01	0.00
TOU and CPP Residential (Voluntary, w/out TD)	1*	0.09	0.08	0.06	0.06	0.07	0.08	0.11	0.12	0.13	0.10	0.08	0.09
TOU and CPP Grandfather Residential (Voluntary, w/TD)	1*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CPP Residential on TD	1	0.03	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.03
2022 Total Non Event-Based Programs/Load Modifying Resources		**9.64**	**7.92**	**3.92**	**8.45**	**11.38**	**12.81**	**21.24**	**24.26**	**31.51**	**18.93**	**11.85**	**11.30**
2022 Total Event and Non Event-Based Programs		**10.63**	**8.76**	**5.03**	**12.16**	**20.37**	**19.67**	**29.57**	**33.30**	**41.18**	**30.99**	**13.86**	**12.11**

Payment$ - if payment for this program is from bundled customers only, enter 0, if all distribution customers, enter 1
* CPP Implementation costs recovered from all customers, and annual over- or under-collections are recovered from only bundled customers.
Load impact benefits are applied to the peak Load Forecast.