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VIA HAND DELIVERY & ELECTRONIC MAIL

January 10, 2022

Luly E. Massaro, Commission Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

RE: Docket 5202 - 2022 Renewable Energy Growth Program Tariff and Rule Changes
Responses to PUC Data Requests – Set 1

Dear Ms. Massaro:

On behalf of National Grid,¹ enclosed please find the Company's responses to the First Set of Data Requests issued by the Public Utilities Commission in the above-referenced matter. The Company was granted an extension to file responses to Data Requests PUC 1-8 and 1-18 by Friday, January 14, 2022.

Thank you for your attention to this filing. If you have any questions, please contact me at 401-709-3337.

Sincerely,



Leticia C. Pimentel

Enclosures

cc: Docket 5202 Service List
Jon Hagopian, Esq.
John Bell, Division

¹ The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

Docket No. 5202– Renewable Energy Growth Program for Year 2022
National Grid & RI Distributed Generation Board
Service List updated 11/29/2021

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PUC 1-1

Request:

Please provide a table showing the original targets and revised targets for each of the seven Renewable Energy Growth Program years. Please include the amount enrolled in each class. Please include a column showing the cancellations for each year in each class. Please include total where appropriate.

Response:

Please see the tables that follow for the requested information. The Narragansett Electric Company d/b/a National Grid interprets the request for “revised targets” to mean the actual enrollment level after reallocation of annual capacity between classes, as allowed by the Renewable Energy Growth Program enrollment rules and approvals. All data, in all tables, is provided based on available information as of January 1, 2022.

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Renewable Energy Growth Program - 2015 Program Year

Renewable Energy Class (Nameplate kW)	Annual Enrollment Target (Nameplate kW)	Total Awarded		Cancelled/Terminated	
		Nameplate kW	Projects	Nameplate kW	Projects
Small-Scale Solar (1-25 kW DC)	3,000	3,408	485	289	45
Medium-Scale Solar (26-250 kW DC)	4,000	2,683	11	500	2
Commercial-Scale Solar (251-999 kW DC)	5,500	4,147	5	0	0
Large-Scale Solar (1,000-5,000 kW DC)	6,000	6,644	2	0	0
Wind (1,500-2,999 kW)	5,000	1,500	1	0	0
Wind (3,000-5,000 kW)		4,500	1	0	0
Anaerobic Digestion (150-1,000 kW)	1,500	0	0	0	0
Small-Scale Hydropower (10-250 kW)		0	0	0	0
Small-Scale Hydropower (251-1,000 kW)		0	0	0	0
Total:	25,000 kW	22,882 kW		789 kW	

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Renewable Energy Growth Program - 2016 Program Year

Renewable Energy Class (Nameplate kW)	Annual Enrollment Target (Nameplate kW)	Total Awarded		Cancelled/Terminated	
		Nameplate kW	Projects	Nameplate kW	Projects
Small-Scale Solar (1-25 kW DC)	5,500	7,175	1,028	836	122
Medium-Scale Solar (26-250 kW DC)	5,000	4,495	18	1,998	8
Commercial-Scale Solar (251-999 kW DC)	8,000	7,559	8	1,629	2
Large-Scale Solar (1,000-5,000 kW DC)	11,000	7,854	2	7,854	2
Wind (1,500-2,999 kW)	9,000	3,000	2	3,000	2
Wind (3,000-5,000 kW; 2-turbine)		0	0	0	0
Wind (3,000-5,000 kW; 3-turbine)		0	0	0	0
Anaerobic Digestion (150-500 kW)	1,500	0	0	0	0
Anaerobic Digestion (501-1,000 kW)		0	0	0	0
Small-Scale Hydropower (10-250 kW)		0	0	0	0
Small-Scale Hydropower (251-1,000 kW)		0	0	0	0
Total:	40,000 kW	30,084 kW		15,317 kW	

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Renewable Energy Growth Program - 2017 Program Year

Renewable Energy Class (Nameplate kW)	Annual Enrollment Target (Nameplate kW)	Total Awarded		Cancelled/Terminated	
		Nameplate kW	Projects	Nameplate kW	Projects
Small-Scale Solar (1-25 kW DC)	6,550	7,070	1,107	980	161
Medium-Scale Solar (26-250 kW DC)	3,000	3,619	16	1,498	6
Commercial-Scale Solar (251-999 kW DC)	5,000	5,333	6	1,403	2
Large-Scale Solar (1,000-5,000 kW DC)	12,050	11,850	5	5,080	2
Small Wind (10-999 kW)	400	0	0	0	0
Wind I (1,000-2,999 kW)	6,000	0	0	0	0
Wind II (3,000-5,000 kW; 2-turbine)		6,000	2	0	0
Wind III (3,000-5,000 kW; 3-turbine)		0	0	0	0
CRDG Wind I (1,000-2,999 kW DC)		0	0	0	0
CRDG Wind II (3,000-5,000 kW DC; 2-turbine)		0	0	0	0
CRDG Wind III (3,000-5,000 kW DC; 3-turbine)		0	0	0	0
CRDG Commercial Solar (251-999 kW DC)		3,000	2,991	3	997
CRDG Large Solar (1,000-5,000 kW DC)	3,000	3,000	1	0	0

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Renewable Energy Growth Program - 2017 Program Year Cont.

Renewable Energy Class (Nameplate kW)	Annual Enrollment Target (Nameplate kW)	Total Awarded		Cancelled/Terminated	
		Nameplate kW	Projects	Nameplate kW	Projects
Anaerobic Digestion I (150-500 kW)	1,000	0	0	0	0
Anaerobic Digestion II (501-1,000 kW)		0	0	0	0
Small Scale Hydropower I (10-250 kW)		0	0	0	0
Small Scale Hydropower II (251-1,000 kW)		450	1	0	0
Total:		40,000 kW	40,313 kW	9,958 kW	

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Renewable Energy Growth Program - 2018 Program Year

Renewable Energy Class (Nameplate kW)	Annual Enrollment Target (Nameplate kW)	Total Awarded		Cancelled/Terminated	
		Nameplate kW	Projects	Nameplate kW	Projects
Small-Scale Solar (1-25 kW DC)	6,550	7,316	1,068	909	125
Medium-Scale Solar (26-250 kW DC)	3,000	3,102	20	751	5
Commercial-Scale Solar (251-999 kW DC)	5,000	5,110	6	1,963	2
Large-Scale Solar (1,000-5,000 kW DC)	12,050	14,479	4	6,549	2
Small Wind (10-999 kW)	400	0	0	0	0
Wind I (1,000-2,999 kW)	6,000	0	0	0	0
Wind II (3,000-5,000 kW; 2-turbine)		6,000	2	0	0
Wind III (3,000-5,000 kW; 3-turbine)		0	0	0	0
CRDG Wind I (1,000-2,999 kW DC)		0	0	0	0
CRDG Wind II (3,000-5,000 kW DC; 2-turbine)		0	0	0	0
CRDG Wind III (3,000-5,000 kW DC; 3-turbine)		0	0	0	0
CRDG Commercial Solar (251-999 kW DC)		3,000	997	1	0
CRDG Large Solar (1,000-5,000 kW DC)	3,000	2,999	2	1,800	1

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Renewable Energy Growth Program - 2018 Program Year Cont.

Renewable Energy Class (Nameplate kW)	Annual Enrollment Target (Nameplate kW)	Total Awarded		Cancelled/Terminated	
		Nameplate kW	Projects	Nameplate kW	Projects
Anaerobic Digestion I (150-500 kW)	1,000	0	0	0	0
Anaerobic Digestion II (501-1,000 kW)		0	0	0	0
Small Scale Hydropower I (10-250 kW)		0	0	0	0
Small Scale Hydropower II (251-1,000 kW)		740	1	0	0
Total:		40,000 kW	40,743 kW	11,972 kW	

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Renewable Energy Growth Program - 2019 Program Year

Renewable Energy Class (Nameplate kW)	Annual Enrollment Target (Nameplate kW)	Total Awarded		Cancelled/Terminated	
		Nameplate kW	Projects	Nameplate kW	Projects
Small-Scale Solar (1-25 kW DC)	12,230	5,789	786	542	66
Medium-Scale Solar (26-250 kW DC)	6,800	7,262	36	1,879	11
Commercial-Scale Solar (251-999 kW DC)	7,300	8,404	11	1,691	2
Large-Scale Solar (1,000-5,000 kW DC)	11,300	15,239	5	5,701	2
Small Wind (10-999 kW)	400	0	0	0	0
Wind I (1,000-2,999 kW)	6,000	1,500	1	0	0
Wind II (3,000-5,000 kW; 2- turbine)		3,000	1	0	0
Wind III (3,000-5,000 kW; 3- turbine)		0	0	0	0
CRDG Wind I (1,000-2,999 kW DC)		0	0	0	0
CRDG Wind II (3,000-5,000 kW DC; 2- turbine)		0	0	0	0
CRDG Wind III (3,000-5,000 kW DC; 3- turbine)		0	0	0	0
CRDG Commercial Solar (251-999 kW DC)		5,000	4,030	5	1,582

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Renewable Energy Growth Program - 2019 Program Year Cont.

Renewable Energy Class (Nameplate kW)	Annual Enrollment Target (Nameplate kW)	Total Awarded		Cancelled/Terminated	
		Nameplate kW	Projects	Nameplate kW	Projects
CRDG Large Solar (1,000-5,000 kW DC)	5,300	3,393	1	0	0
Anaerobic Digestion (1-5,000 kW)	1,000	0	0	0	0
Hydropower (1-5,000 kW)		480	1	0	0
Total:	55,330 kW	49,097 kW		11,395 kW	

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Renewable Energy Growth Program - 2020 Program Year

Renewable Energy Class (Nameplate kW)	Annual Enrollment Target (Nameplate kW)	Total Awarded		Cancelled/Terminated	
		Nameplate kW	Projects	Nameplate kW	Projects
Small-Scale Solar (1-25 kW DC)	6,950	5,814	808	236	29
Medium-Scale Solar (26-250 kW DC)	3,000	5,667	32	749	3
Commercial-Scale Solar (251-999 kW DC)	8,244	7,021	11	0	0
Large-Scale Solar (1,000-5,000 kW DC)	18,294	20,836	6	0	0
Small Wind (50-1,500 kW)	3,000	1,000	1	0	0
Wind (1,500-5,000 kW)		0	0	0	0
CRDG Wind (1,000-5,000 kW)		0	0	0	0
CRDG Commercial Solar (251-999 kW DC)	3,000	700	1	0	0
CRDG Large Solar (1,000-5,000 kW DC)	3,000	2,995	1	0	0
Anaerobic Digestion (1-5,000 kW)	1,000	0	0	0	0
Hydropower (1-5,000 kW)		0	0	0	0
Total:	46,488 kW	44,033 kW		985 kW	

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Renewable Energy Growth Program - 2021 Program Year

Renewable Energy Class (Nameplate kW)	Annual Enrollment Target (Nameplate kW)	Total Awarded		Cancelled/Terminated	
		Nameplate kW	Projects	Nameplate kW	Projects
Small-Scale Solar (1-25 kW DC)	6,950	4,962	679	68	8
Medium-Scale Solar (26-250 kW DC)	5,000	6,424	27	0	0
Commercial-Scale Solar (251-750 kW DC)	4,000	4,922	8	514	1
Commercial-Scale Solar (751-999 kW DC)	8,000	1,997	2	0	0
Large-Scale Solar (1,000-5,000 kW DC)	22,897	22,619	5	0	0
Small Wind (50-1,500 kW)	3,000	0	0	0	0
Wind (1,500-5,000 kW)		0	0	0	0
CRDG Wind (1,000-5,000 kW)		0	0	0	0
CRDG Commercial Solar (251-750 kW DC)	3,000	0	0	0	0
CRDG Commercial Solar (751-999 kW DC)		0	0	0	0
CRDG Large Solar (1,000-5,000 kW DC)	3,000	2,300	1	0	0
Anaerobic Digestion (1-5,000 kW)	1,000	0	0	0	0
Hydropower (1-5,000 kW)		732	1	0	0
Total:	56,847 kW	43,956 kW		581 kW	

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PUC 1-2

Request:

For Program Years 2019, 2020, and 2021 to date, please provide the following for Medium, Commercial Solar, and Community Remote Commercial Solar:

- a. Please provide the number of enrollments (medium) and bids (commercial) in each of the new Renewable Energy Classes.

Response:

Below is a table showing total number of bids for Program Years 2019, 2020, and 2021 for the Medium Scale Solar, Commercial Solar, and Community Remote Commercial Solar classes. Please note that although Program years 2019 and 2020 had a single Commercial Scale Solar capacity range of 251-999 kW, the enrollments have been grouped into the new Program Year 2021 capacity ranges of 251-750kW and 751-999kW.

Total Medium and Commercial Scale RE Growth Open Enrollment Bids			
	2019	2020	2021
Medium Scale Solar (26 - 250 KW DC)	50	47	33
Commercial-Scale Solar I (251-750 kW DC)	9	12	17
Commercial-Scale Solar II (751-999 kW DC)	15	5	2
Commercial-Scale Solar – CRDG (251-750 kW DC)	3	2	0
Commercial-Scale Solar – CRDG (751-999 kW DC)	5	1	0

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PUC 1-3

Request:

As part of the 2020 REGrowth Program, the Company proposed that customers with an existing renewable energy system be allowed to add on under certain conditions.

- a. How many existing REGrowth Program customers chose to add on in 2020 or 2021?
- b. What were the sizes?
- c. What were the most cited reasons for the load growth on site?

Response:

- a. During 2020 and 2021, six (6) customers chose to add on to their existing REGrowth systems. One (1) added more generation and a storage system, and five (5) were battery add-ons to existing solar generation.
- b. The sizes of each system and add-on generator or storage system are included in Attachment PUC 1-3.
- c. The Company does not record the customer’s reasons for adding on to existing systems, or for load growth on site.

Facility	Generator Size (kW DC)	Generator Size (kW AC)	Type of Add-On	DC Size of Generation Add-On (kW DC, if applicable)	AC Size of Generation Add-On (kW AC if applicable)	Size of AC-coupled Storage Add-On (kW)
1	9.6	8	Storage to Existing Generation	N/A	N/A	15
2	8.75	7.095	Storage to Existing Generation	N/A	N/A	10
3	2.9	3	Storage to Existing Generation	N/A	N/A	5
4	6.84	7.6	Storage to Existing Generation	N/A	N/A	5
5	8.16	6.283	Storage and Generation to Existing Generation	4.55	3	15
6	3.06	3.06	Storage to Existing Generation	N/A	N/A	4.8

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PUC 1-4

Request:

In the 2020 REGrowth Program Enrollment Rules, the Company provided language addressing the battery storage configuration for REGrowth facilities paired with storage.

- a. Please indicate how many REGrowth enrollments were solar paired in storage in 2020 or 2021.
- b. Has the Company received any feedback on the applicability of the new rules?
- c. If so, please explain

Response:

- a. In 2020 and 2021, six enrollments were new solar paired with a battery, or a battery “add-on” to existing solar.
- b. Yes, the Company received feedback on the new program rules regarding storage, as discussed in part (c), below.
- c. Near the start of program year 2020, the Company received requests to create guidance for storage configuration. In spring 2020, the Company made eligible examples of DC-Coupled Storage and AC-Coupled Storage configurations available on its Rhode Island Interconnection Documents webpage:
<https://ngus.force.com/s/article/RI-Interconnection-Documents>

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PUC 1-5

Request:

In response to a question in Docket No. 4983 about who would inspect the solar paired with storage configuration, the Company responded:

The customer’s installer will be required to provide one lines of the proposed configuration, which the customer and the installer provide with attestation to their accuracy. The installer will also need to provide photos of the metering and wiring configuration, as they do at present with any new connection, in order for the customer representative to close out the application and order a meter to be installed. This is the same process as exists today for establishing RE Growth and other new connections.

- a. Has the Company received any finalized one lines and photos for any installations in 2020 or 2021? If so, have they been in compliance or has the Company had to order changes.

Response:

- a. Yes, the Company has received finalized one lines and photos for all installations including solar paired with storage configuration in 2021 and 2021. Systems are not issued Authority to Interconnect (ATI) until the customer’s one lines, photos, and all other Completion Documents are compliant. The Company does not track the number of resubmitted Completion Documents or the reason(s) they were resubmitted -- only the correct versions of all documents are kept on file for ATI.

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PUC 1-6

Request:

In the 2019 Renewable Energy Growth program tariffs and enrollment rules, there were certain changes made. These changes were carried through to 2020 and 2021: Please respond to the following:

- a. The 2020 and 2021 Enrollment Process Rules require the project development cost field to be filled out as a prerequisite to the application being deemed complete.
 - i. How many projects were rejected in 2020 to date as a result of this field being left blank?
 - ii. How has National Grid determined whether the project development costs are being calculated consistently with the new definition of “total project costs”?
- b. Self-installers and new installers who have not installed a Renewable Energy Growth Small Scale project prior to the 2019 Program Year have been required to complete a mandatory training webinar prior to submitting an interconnection application.
 - i. How many self-installers completed the training since 2019 to date?
 - ii. How many new installers completed the training since 2019 to date?
 - iii. Are there any results regarding the effectiveness of the training yet? If so, please describe.
- c. Participants who do not make their facilities available for inspection within 90 days from the date of an OER request for inspection will have their payments suspended until inspection is allowed. Continued failure to allow the facility to be inspected may result in termination of the certificate of eligibility after 180 days from the date OER requested the inspection. (Assuming inspections have occurred even during COVID, please respond to the following):
 - i. Have any participants failed to make facilities available for inspection within 90 days from the date of an OER request for inspection? If so, how many?
 - ii. If any participants failed to make facilities available for inspection within 90 days from the date OER requested the inspection, were the payments suspended? If so,

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- for each participant (generically identified), please indicate the duration of the suspension and the amount suspended.
- iii. If any participants failed to make facilities available for inspection after 180 days from the date OER requested the inspection, were any certificates of eligibility terminated? If so, how many?
- d. When payments are suspended or withheld for any reason, up to 90 days of performance-based incentives and bill credits will be available to be paid once the suspension is cured; the value of all generation that occurred prior to 90 days of the cure will be forfeited.
- i. Has the Company had cause to suspend any payments for any reason? If so, please explain.
 - ii. Has the Company had cause to suspend any payments for any reason, the result of which was that a participant forfeited any of his or her value of generation? If so, please explain.

Response:

- a.
 - i. The Company did not reject any projects for this reason. Instead, customers have an ongoing opportunity to revise their application and complete this information, called “Total Project Costs” on the form, Exhibit A. This field is mandatory for RE Growth applications and an electronic application will not progress to the next stage if this field is left blank by the customer.
 - ii. The customer is responsible to provide accurate system information on their application to the best of their ability and remain in compliance with program and tariff rules. The Company has not investigated the methods of calculating this field.
- b.
 - i. The Company does not administer the training for the RE Growth program nor does it track attendance. Rather, the Office of Energy Resources (“OER”) administers this area.
 - ii. Please refer to the Company’s answer to part (a), above.
 - iii. The OER and its quality assurance consultant publish an annual report at the conclusion of annual installation inspections of RE Growth projects. The most recently published OER report from 2019 recommends this training, but the Company has not evaluated it.

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- c.
 - i. The Company contacted the OER about this question and learned that twelve customers failed to make their facilities available for inspection in 2021, during in the initial round of customer outreach. The OER and its consultant found twelve replacement facilities to ensure adequate sample size for the quality assurance assessment.
 - ii. The Company was not asked to apply this enforcement mechanism or made aware of non-responsive customers until after inspections were complete, and did not suspend any payments.
 - iii. The Company was not asked to apply this enforcement mechanism or made aware of non-responsive customers until after inspections were complete, and did not terminate any Certificates of Eligibility.
- d.
 - i. To date, based on the recollections of the program staff, the Company has not suspended payments to any RE Growth customers, pursuant to Section 6(a) of the residential tariff, or Section 8(a) of the non-residential tariff.
 - ii. Please see the Company’s response to part (a), above.

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PUC 1-7

Request:

Have any Renewable Energy Growth program projects been subjected to Affected System Operator Studies?

- a. If so, have any projects been delayed beyond the statutory deadlines set forth in R.I. Gen. Laws §§ 39-26.2-7(2) and 39-26.6-5(a)?
- b. If so, have the awards been terminated or have extensions been granted?
- c. For any affected Renewable Energy Growth program projects, please provide a listing of project type, size, and relevant dates, including when any extension is expected to be lifted, and any new deadline to achieve 90% of output.

Response:

Yes, some Renewable Energy Growth (“REG”) program projects been subjected to Affected System Operator Studies.

- a. Yes, to date, six (6) REG projects were delayed by an Affected System Operator (“ASO”) Study. The Company may withhold an impact study or Interconnection Service Agreement (“ISA”) until an ASO Study is complete and the associated Proposed Plan Application has received approval from ISO-New England, Inc. Typically, a REG applicant receives a completed Impact Study Report, submits it along with their REG application, and successfully receives a Certificate of Eligibility. However, a REG application associated with an ASO Study does not receive and execute the ISA until the ASO Study is complete.
- b. The Company provided COE extensions to all six (6) REG projects associated with ASO Studies. One project is now operational. Another project has exceeded its extension deadline and is pending termination. The Company terminated the four remaining projects after they exceeded their ASO Study-related extensions. Two of the four terminated projects re-applied in later REG open enrollment periods and were awarded new COEs.
- c. Please see Attachment 1-7 for more project details.

Case Number	Project Type	Project Size (MW DC)	New Deadline to Achieve 90% Output?
1	Large-Scale Solar	2.700	Operational. COE issued 7/27/2017. 1st extension granted new deadline 1/27/2020. ISONE Study extension moved 6-month extension date to 10/15/2020. 2nd extension granted new deadline 4/15/2021. COE Effective 4/6/2021.
2	Large-Scale Solar	5.000	Pending. COE issued 6/28/2018, 1st extension granted new deadline 12/28/2020. ASO extension granted new deadline 12/28/2021. Project has not requested extension so COE expected to be terminated.
3	Large-Scale Solar	2.200	Terminated. COE issued 7/27/2017. 1st extension granted new deadline 1/27/2020. ISONE Study extension moved 6-month extension deadline date to 8/10/2020. COE Terminated 8/11/2020. Awarded again in 2020-3rdOE.
4	Large-Scale Solar	5.000	Terminated. COE issued 6/28/2018. 1st extension granted new deadline 12/28/2020. ISONE Study extension moved 6-month extension deadline date to 6/28/2021. COE Terminated 6/9/2021. Awarded again in 2021-1stOE.
5	CRDG Large Solar	1.880	Terminated. COE issued 12/20/2018. ISONE Study extension moved deadline date to 6/20/2021. COE Terminated 6/21/2021.
6	Large-Scale Solar	2.880	Terminated. COE issued 1/3/2018. 1st extension granted new deadline 7/3/2020. ISONE Study extension moved 6-month extension deadline date to 7/29/2021. COE Terminated 9/29/2020.

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PUC 1-9

Request:

Please reproduce the tables provided in response to PUC 1-12, 1-13, and 1-14 from Docket No. 5088, adding columns for REG projects. For ease of reference, the following are the questions and answers from Docket No. 5088:

PUC 1-12

Request:

How many MW of new net metering has become operational in each of the past five years?

Response:

A total of 192.05 MW have become operational in the past five calendar years, with the breakdown of interconnections each year shown in the table below.

Calendar Year	MW AC Interconnected
2016	16.82
2017	10.94
2018	46.02
2019	85.98
2020	32.29
Total	192.05

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PUC 1-13

Request:

How many MW of new net metering has been installed during the period April 1, 2019 to date?
Please provide sizes equivalent to the class sizes in the Renewable Energy Growth Program.

Response:

Between April 1, 2019 and December 10, 2020, a total of 115.88 MW AC of net metering projects have been connected. Interconnections by size class equivalent to those in the Renewable Energy Growth Program are provided in the table below.

Size Class	AC Rating Range	MW Connected
Small Scale	25 kW and less	13.35
Medium Scale	Between 26 kW & 250 kW	2.13
Commercial Scale	Between 251 kW & 999 kW	0.72
Large Scale	1 MW and greater	99.68
Total		115.88

PUC 1-14

Request:

How many MW of net metering is pending approval by the Company? Please provide sizes equivalent to the class sizes in the Renewable Energy Growth Program.

Response:

The total AC capacity of net metering applications under review and pending the acceptance of the Company as of December 10, 2020 is 647.82 MW. Applications are sorted by size class equivalent to those in the Renewable Energy Growth Program in the table below.

Size Class	AC Rating Range	MW Under Review
Small Scale	25 kW and less	0.73
Medium Scale	Between 26 kW & 250 kW	2.92
Commercial Scale	Between 251 kW & 999 kW	19.35
Large Scale	1 MW and greater	624.82
Total		647.82

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Response:

A total of 402 MW AC have been connected in the last 5 years, across both Net Metering and RE Growth programs. Of the total, 287.4 MW are enrolled in Net Metering and 114.68 MW are enrolled in RE Growth.

Year	MW AC Interconnected	
	Net Metering	RE Growth
2016	16.81	9.79
2017	11.76 ¹	14.04
2018	46.01	29.65
2019	85.98	14.94
2020	50.99	20.85
2021	75.81	25.42

Between April 1, 2020 and December 31, 2021 a total of 135.5 MW AC were interconnected, with 98.84 MW enrolled in the Net Metering program and 36.66 MW enrolled in the RE Growth program. Interconnections during this time are sorted by RE Growth size class in the table below:

Size Class	AC Rating Range	MW Under Review	
		Net Metering	RE Growth
Small Scale	< 25 kW	1.92	0.35
Medium Scale	26 - 250 kW	3.03	6.05
Commercial Scale	251 - 999 kW	1.94	7.80
Large Scale	> 1 MW	91.95	22.47
Total		98.84	36.66

¹ The 2017 total Net Metering MW of 11.76 includes 800 kW that was inadvertently omitted from this table in Docket No. 5088.

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A total of 73.726 MW AC is under review by the Company, with 568.5 MW in the Net Metering program and 119.544 in the RE Growth program. Applications are sorted by class size equivalent to those in the RE Growth program in the table below:

Size Class	AC Rating Range	MW Under Review	
		Net Metering	RE Growth
Small Scale	< 25 kW	0.546	0.134
Medium Scale	26 - 250 kW	3.15243	8.72214
Commercial Scale	251 - 999 kW	12.6605	24.7035
Large Scale	> 1 MW	552.138	85.984
Total		568.497	119.544

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PUC 1-10

Request:

Please update PUC 1-29 from Docket No. 5088 related to Community Remote Distributed Generation or Shared Solar facilities in operation under the Renewable Energy Growth program?

- a. Please list each by size and indicate the number of off takers for each.

Response:

- a. Currently the following Community Remote Distributed Generation (“CRDG”) projects have received Certificates of Eligibility and are enrolled in RE Growth:

Year Interconnected (Anticipated Generation)	# Projects	Size (MW DC)
2020	2	1.994
2021	1	0.458
2022	4	5.685
2023	1	2.3
Total	8	10.437

The three projects listed for 2020 and 2021, in the table above, are interconnected and operational, and more details about them appear in the third table, below. Projects listed as anticipated to be interconnected in 2022 and 2023 are based on the projects’ current estimated connected date, which considers their construction schedule and Tariff-mandated timelines.

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Each of the 35 interconnected and operational Shared Solar projects are listed with their respective sizes and number of offtakers in the second table, below.

Project Number	System Size (kW DC)	# Offtakers
1	17.4	5
2	12.09	3
3	5.61	2
4	5.67	2
5	9.18	2
6	9.8	2
7	5.44	2
8	9.52	2
9	9.18	2
10	11.88	2
11	6.93	2
12	8.32	2
13	10.23	4
14	8.84	2
15	10.8	2
16	6.4	2
17	5.4	2
18	9.75	2
19	8.8	2
20	4.69	3
21	8.64	2
22	6.12	2
23	10.54	2
24	5.27	2
25	10.8	2
26	5.1	2
27	0	2
28	10.97	2
29	10.89	2
30	12.8	2
31	5.99	2
32	7.2	2
33	3.05	2
34	11.03	2
35	4.34	2

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Each of the three (3) interconnected and operational CRDG systems are listed, with their respective sizes and current number of offtakers, in the third table below.

Project Number	System Size (kW DC)	Current # of Offtakers
1	997	32
2	997	25
3	457.71	79

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PUC 1-11

Request:

Please indicate the number of A-60 customers receiving credits from Community Remote Distributed Generation or Shared Solar facilities. (This was PUC 1-30 in Docket No. 5088).

Response:

A total of forty-one (41) A-60 customers receive credits from Community Remote Distributed Generation (CRDG) or Shared Solar facilities. Of those, thirty-five (35) are recipients from CRDG facilities and 5 are recipients from Shared Solar facilities.

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PUC 1-12

Request:

Please indicate the number of A-60 customers receiving credits from Community Remote Net Metering facilities. What percentage of A-60 customers are served by these facilities? (This was PUC 1-31 in Docket No. 5088).

Response:

Community Remote Net Metering facilities allocate credits to one hundred and forty-three (143) A-60 customers, accounting for approximately 0.5% of all A-60 customers.

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PUC 1-13

Request:

Please indicate the number of Community Remote Net Metering facilities associated with low-income housing and the number of customers served, if known. (This was PUC 1-32 in Docket No. 5088).

Response:

Docket No. 5088 Response:

There are three Community Remote Net Metering facilities that are interconnected, each of them with Low-Moderate Income customers on their credit allocation forms. In total, there are 33 A60 customers served across the three Community Remote Net Metering Host accounts.

Updated Response:

There are five Community Remote Net Metering facilities that are interconnected to date, each of them with Low-Moderate Income customers on their credit allocation forms. In total, 143 Low-Moderate Income customers are served across the Community Remote Net Metering program. None of these facilities are using the specific provisions of the tariff related to qualified low-income housing.

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PUC 1-14

Request:

Please provide a history of enrollment for any A-60 customers in Community Remote Distributed Generation or Shared Solar facilities. If there were A-60 customers who were allocated credits but then were replaced during a subsequent “Customer Payment/Credit Transfer,” please indicate, at a minimum, for each A-60 customer allocated a portion of the credits, the number of months the customer received credits prior to being replaced. Please provide by type of program. (This was PUC 1-33 in Docket No. 5088 – adding to that response would be acceptable).

Response:

To date, a total of 35 A-60 credit recipients were enrolled with a Community Remote Distributed Generation facility and all remain active. A total of eight (8) A-60 customers were enrolled as credit recipients of Shared Solar facilities, and five (5) remain active today.

As shown in the table below, three A-60 customers unenrolled from Shared Solar facilities (one in 2020 and two in 2021). Regarding the customers that unenrolled in 2021 (listed as Accounts A and B), one A-60 customer was enrolled for four (4) months, and the other was enrolled for seventeen (17) months. Both A-60 customers unenrolled around November 2021, and neither was replaced by another A-60 customer.

Bill Credit Allocations to Account A		
7/23/2021	8/23/2021	(\$3.68)
8/23/2021	9/23/2021	(\$4.49)
9/23/2021	10/22/2021	(\$3.87)
10/22/2021	11/1/2021	(\$3.24)

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Bill Credit Allocations to Account B		
6/17/2020	7/20/2020	(\$62.78)
7/20/2020	8/17/2020	(\$72.28)
8/17/2020	9/16/2020	(\$76.65)
9/16/2020	10/19/2020	(\$81.18)
10/19/2020	11/16/2020	(\$51.07)
11/16/2020	12/15/2020	(\$93.07)
12/15/2020	1/18/2021	(\$34.14)
1/18/2021	2/17/2021	(\$43.93)
2/17/2021	3/17/2021	(\$36.18)
3/17/2021	4/20/2021	\$ -*
4/20/2021	5/19/2021	\$ -*
5/19/2021	6/17/2021	\$ -*
6/17/2021	7/19/2021	\$ -*
7/19/2021	8/17/2021	\$ -*
8/17/2021	9/17/2021	\$ -*
9/17/2021	10/18/2021	\$ -*
10/18/2021	11/17/2021	\$ -*

* The Company is investigating the blank fields listed above, but they may be a result of Section 6.c.2)(iii), which includes a “maximum annual allocation limit will be either 70% or 75% of their three (3) year annual average onsite usage depending on whether they are receiving a 30% or 25% Low-Income Discount.”

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PUC 1-15

Request:

Please provide a history of enrollment for any A-16 customers Community Remote Distributed Generation or Shared Solar facilities. If there were A-16 customers who were allocated credits but then were replaced during a subsequent “Customer Payment/Credit Transfer,” please indicate, at a minimum, for each A-16 customer allocated a portion of the credits, the number of months the customer received credits prior to being replaced. Please provide by type of program. (This was PUC 1-34 in Docket No. 5088 – adding to that response would be acceptable)

Response:

To date, a total of 22 A-16 customers were enrolled as credit recipients with a Community Remote Distributed Generation facility and all remain active. A total of 60 A-16 customers were enrolled as credit recipients of Shared Solar facilities, and 46 remain active today.

Please see the table below for a list of fourteen A-16 customers that enrolled as credit recipients in Shared Solar facilities (identified as A through N) who were subsequently removed or replaced, and the bill credits they received prior.

Customer	Bill Start Date	Bill End Date	Credit (\$)
A	17-Jun-19	18-Jul-19	-0.94
A	18-Jul-19	16-Aug-19	-4.13
A	16-Aug-19	16-Sep-19	-6.26
A	16-Sep-19	17-Oct-19	-5.4
A	17-Oct-19	14-Nov-19	-4.8
A	14-Nov-19	16-Dec-19	-3.34
A	16-Dec-19	16-Jan-20	-3.76
A	16-Jan-20	18-Feb-20	-5.04
A	18-Feb-20	17-Mar-20	-6.9
A	17-Mar-20	16-Apr-20	-5.75
A	16-Apr-20	14-May-20	-5.4
A	14-May-20	17-Jun-20	-7.76
A	17-Jun-20	16-Jul-20	-6.21

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A	16-Jul-20	17-Aug-20	-6.57
A	17-Aug-20	14-Sep-20	-5.49
A	14-Sep-20	15-Oct-20	-5.49
A	15-Oct-20	12-Nov-20	-3.65
A	12-Nov-20	15-Dec-20	-3.44
A	15-Dec-20	14-Jan-21	-3.27
A	14-Jan-21	16-Feb-21	-3.27
A	16-Feb-21	18-Mar-21	-5.83
A	18-Mar-21	19-Apr-21	-6.66
A	19-Apr-21	18-May-21	-6.54
A	18-May-21	04-Jun-21	-3.76
B	23-Jul-21	23-Aug-21	-72.24
B	23-Aug-21	23-Sep-21	-69.31
B	23-Sep-21	22-Oct-21	-46.65
B	22-Oct-21	22-Nov-21	-44.49
C	05-May-21	04-Jun-21	-50.18
C	04-Jun-21	06-Jul-21	-97.06
D	18-Jun-19	18-Jul-19	-20.45
D	18-Jul-19	16-Aug-19	-80.41
D	16-Aug-19	16-Sep-19	-65.73
D	16-Sep-19	17-Oct-19	-41.71
D	17-Oct-19	14-Nov-19	-29.45
D	14-Nov-19	16-Dec-19	-46.16
D	16-Dec-19	16-Jan-20	-44.53
D	16-Jan-20	18-Feb-20	-68.21
D	18-Feb-20	18-Mar-20	-31.81
D	18-Mar-20	16-Apr-20	-43.53
D	16-Apr-20	14-May-20	-33.44
D	14-May-20	16-Jun-20	-23.79
D	16-Jun-20	16-Jul-20	-72.78
D	16-Jul-20	17-Aug-20	-110.63
D	17-Aug-20	14-Sep-20	-50.26
D	14-Sep-20	15-Oct-20	-26.55
D	15-Oct-20	12-Nov-20	-33.27

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D	12-Nov-20	15-Dec-20	-25.65
D	15-Dec-20	14-Jan-21	-18.2
D	14-Jan-21	16-Feb-21	-57.24
D	16-Feb-21	18-Mar-21	-47.8
D	18-Mar-21	19-Apr-21	-32.12
D	19-Apr-21	18-May-21	-20.1
D	18-May-21	04-Jun-21	-11.76
E	17-Dec-19	20-Jan-20	-30.32
E	20-Jan-20	18-Feb-20	-30.12
E	18-Feb-20	17-Mar-20	-69.25
E	17-Mar-20	17-Apr-20	-66.56
E	17-Apr-20	21-May-20	-72.26
E	21-May-20	17-Jun-20	-69.41
E	17-Jun-20	21-Jul-20	-79.43
E	21-Jul-20	17-Aug-20	-63.27
E	17-Aug-20	17-Sep-20	-56.53
E	17-Sep-20	19-Oct-20	-62.82
E	19-Oct-20	17-Nov-20	-27.63
E	17-Nov-20	15-Dec-20	-25.81
E	15-Dec-20	18-Jan-21	-24.38
E	18-Jan-21	17-Feb-21	-24.71
E	17-Feb-21	17-Mar-21	-52.36
E	17-Feb-21	19-Mar-21	-52.36
E	17-Mar-21	20-Apr-21	-70.1
E	20-Apr-21	19-May-21	-47.39
E	19-May-21	17-Jun-21	-41.49
E	17-Jun-21	19-Jul-21	-59.33
E	19-Jul-21	29-Jul-21	-18.45
F	17-Jun-20	20-Jul-20	-62.78
F	20-Jul-20	17-Aug-20	-72.28
F	17-Aug-20	16-Sep-20	-76.65
F	16-Sep-20	19-Oct-20	-81.18
F	19-Oct-20	16-Nov-20	-51.07
F	16-Nov-20	15-Dec-20	-93.07

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F	15-Dec-20	18-Jan-21	-34.14
F	18-Jan-21	17-Feb-21	-43.93
F	17-Feb-21	17-Mar-21	-36.18
F	17-Mar-21	20-Apr-21	0
F	20-Apr-21	19-May-21	0
F	19-May-21	17-Jun-21	0
F	17-Jun-21	19-Jul-21	0
F	19-Jul-21	17-Aug-21	0
F	17-Aug-21	17-Sep-21	0
F	17-Sep-21	18-Oct-21	0
F	18-Oct-21	17-Nov-21	0
G	16-Dec-19	20-Jan-20	-53.73
G	20-Jan-20	18-Feb-20	-53.57
G	18-Feb-20	17-Mar-20	-123.46
G	17-Mar-20	17-Apr-20	-35.19
G	17-Apr-20	21-May-20	-30.58
G	21-May-20	17-Jun-20	-24.41
G	17-Jun-20	21-Jul-20	-47.49
G	21-Jul-20	17-Aug-20	-37.76
G	17-Aug-20	17-Sep-20	-43.65
G	17-Sep-20	19-Oct-20	-48.39
G	19-Oct-20	17-Nov-20	-47.61
G	17-Nov-20	15-Dec-20	-44.36
G	15-Dec-20	18-Jan-21	-41.24
G	18-Jan-21	17-Feb-21	-36.35
G	17-Feb-21	17-Mar-21	-30.92
G	17-Mar-21	20-Apr-21	-31.97
G	20-Apr-21	19-May-21	-27.64
G	19-May-21	17-Jun-21	-37.57
G	17-Jun-21	19-Jul-21	-59.8
G	19-Jul-21	29-Jul-21	-18.64
H	08-Apr-19	09-May-19	-65.32
H	09-May-19	11-Jun-19	-90.07
H	11-Jun-19	11-Jul-19	-83.46

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H	11-Jul-19	13-Aug-19	-96.99
H	13-Aug-19	12-Sep-19	-75.67
H	12-Sep-19	09-Oct-19	-72.88
H	09-Oct-19	06-Nov-19	-53.27
H	06-Nov-19	09-Dec-19	-48.04
H	09-Dec-19	10-Jan-20	-30.3
H	10-Jan-20	07-Feb-20	-44.79
H	07-Feb-20	10-Mar-20	-77.01
H	10-Mar-20	09-Apr-20	-72.66
H	09-Apr-20	08-May-20	-58.01
H	08-May-20	09-Jun-20	-84.3
H	09-Jun-20	13-Jul-20	-86.16
H	13-Jul-20	07-Aug-20	-61.5
H	07-Aug-20	10-Sep-20	-74.66
H	10-Sep-20	07-Oct-20	-48.84
H	07-Oct-20	05-Nov-20	-48.18
H	05-Nov-20	09-Dec-20	-44.36
H	09-Dec-20	11-Jan-21	-20.56
H	11-Jan-21	10-Feb-21	0
H	10-Feb-21	10-Mar-21	-44.18
H	10-Mar-21	09-Apr-21	-79.13
H	09-Apr-21	10-May-21	-64.72
H	10-May-21	10-Jun-21	-79.25
H	10-Jun-21	12-Jul-21	-72.65
H	12-Jul-21	11-Aug-21	-62.68
H	11-Aug-21	10-Sep-21	-62.18
H	10-Sep-21	08-Oct-21	-56.59
I	17-Jun-20	20-Jul-20	-62.78
I	20-Jul-20	17-Aug-20	-72.28
I	17-Aug-20	16-Sep-20	-76.65
I	16-Sep-20	19-Oct-20	-81.18
I	19-Oct-20	16-Nov-20	-51.07
I	16-Nov-20	15-Dec-20	-93.07
I	15-Dec-20	18-Jan-21	-50.17

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I	18-Jan-21	17-Feb-21	-44.36
I	17-Feb-21	01-Mar-21	-77.08
J	10-Apr-19	13-May-19	-70.45
J	13-May-19	13-Jun-19	-64.92
J	13-Jun-19	15-Jul-19	-93.22
J	15-Jul-19	14-Aug-19	-87.22
J	14-Aug-19	13-Sep-19	-75.7
J	13-Sep-19	10-Oct-19	-62.33
J	10-Oct-19	12-Nov-19	-54.95
J	12-Nov-19	11-Dec-19	-65.38
J	11-Dec-19	14-Jan-20	-35.33
J	14-Jan-20	11-Feb-20	-36
J	11-Feb-20	11-Mar-20	-66.53
J	11-Mar-20	13-Apr-20	-71.4
J	13-Apr-20	12-May-20	-56.88
J	12-May-20	31-May-20	-50.07
K	08-Apr-19	09-May-19	-65.32
K	09-May-19	11-Jun-19	-90.07
K	11-Jun-19	11-Jul-19	-83.46
K	11-Jul-19	13-Aug-19	-96.99
K	13-Aug-19	12-Sep-19	-75.67
K	12-Sep-19	09-Oct-19	-72.88
K	09-Oct-19	06-Nov-19	-53.27
K	06-Nov-19	09-Dec-19	-48.04
K	09-Dec-19	10-Jan-20	-30.3
K	10-Jan-20	07-Feb-20	-44.79
K	07-Feb-20	09-Mar-20	-77.01
K	09-Mar-20	09-Apr-20	-72.73
K	09-Apr-20	08-May-20	-58.01
K	08-May-20	09-Jun-20	-84.3
K	09-Jun-20	13-Jul-20	-86.16
K	13-Jul-20	07-Aug-20	-61.5
K	07-Aug-20	10-Sep-20	-74.66
K	10-Sep-20	07-Oct-20	-48.84

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K	07-Oct-20	05-Nov-20	-48.18
K	05-Nov-20	09-Dec-20	-44.36
K	09-Dec-20	11-Jan-21	-20.56
K	11-Jan-21	08-Feb-21	0
K	08-Feb-21	10-Mar-21	-44.18
K	10-Mar-21	09-Apr-21	-79.13
K	09-Apr-21	10-May-21	-64.72
K	10-May-21	10-Jun-21	-79.25
K	10-Jun-21	12-Jul-21	-72.65
K	12-Jul-21	11-Aug-21	-62.68
K	11-Aug-21	10-Sep-21	-62.18
K	10-Sep-21	30-Sep-21	-53.61
L	02-Sep-20	30-Sep-20	-62.64
L	30-Sep-20	30-Oct-20	-46.14
L	30-Oct-20	03-Dec-20	-51.97
L	03-Dec-20	05-Jan-21	-37.63
L	05-Jan-21	02-Feb-21	-45.46
L	02-Feb-21	02-Mar-21	-36.71
L	02-Mar-21	05-Apr-21	-99.74
L	05-Apr-21	05-May-21	-69.62
L	05-May-21	03-Jun-21	-64.37
L	03-Jun-21	02-Jul-21	-57.96
L	02-Jul-21	03-Aug-21	-79.2
L	03-Aug-21	02-Sep-21	-68.02
M	02-Sep-20	30-Sep-20	-22.11
M	30-Sep-20	01-Oct-20	-0.92
N	26-Mar-19	25-Apr-19	-52.33
N	25-Apr-19	29-May-19	-71.78
N	29-May-19	26-Jun-19	-57.12
N	26-Jun-19	29-Jul-19	-142.79
N	29-Jul-19	28-Aug-19	-17.71
N	29-Jul-19	28-Aug-19	-17.71
N	28-Aug-19	26-Sep-19	-114.27
N	28-Aug-19	26-Sep-19	-114.27

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N	26-Sep-19	24-Oct-19	-76.91
N	24-Oct-19	22-Nov-19	-46.78
N	22-Nov-19	27-Dec-19	-66.64
N	27-Dec-19	27-Jan-20	-69.03
N	27-Jan-20	25-Feb-20	-83.69
N	27-Jan-20	25-Feb-20	0
N	25-Feb-20	27-Mar-20	-113.38
N	27-Mar-20	28-Apr-20	-107.61
N	28-Apr-20	27-May-20	-108.4
N	28-Apr-20	27-May-20	0
N	27-May-20	29-Jun-20	-113.76
N	29-Jun-20	28-Jul-20	-44.62
N	28-Jul-20	27-Aug-20	-95.87
N	27-Aug-20	24-Sep-20	-89.86
N	24-Sep-20	23-Oct-20	-86.99
N	23-Oct-20	26-Nov-20	-59.98
N	26-Nov-20	28-Dec-20	-58.18
N	28-Dec-20	28-Jan-21	-60.33
N	28-Jan-21	25-Feb-21	-54.53
N	25-Feb-21	26-Mar-21	-114.49
N	25-Feb-21	26-Mar-21	0
N	26-Mar-21	27-Apr-21	-106.42
N	27-Apr-21	26-May-21	-99.04
N	26-May-21	28-Jun-21	-13.71
N	28-Jun-21	27-Jul-21	-82.32
N	27-Jul-21	26-Aug-21	-90.03
N	26-Aug-21	27-Sep-21	-93.46
N	27-Sep-21	25-Oct-21	-89.34
N	25-Oct-21	24-Nov-21	-78.74
N	24-Nov-21	27-Dec-21	-57.07

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PUC 1-16

Request:

Please provide the following information, starting with the first year in which the CRDG program began providing credits to customers: (1) total number of CRDG projects in operation; (b) total MWhs produced from the CRDG projects; (c) total number of customer accounts by rate class receiving bill credits under the CRDG program; (d) total annual dollar value of bill credits provided to the customer accounts by rate class; and (e) total payments made to the CRDG projects. In addition to the aggregate totals, please provide this information by year. (This was PUC 2-12 in Docket No. 5088 – updating that response would be acceptable).

Response:

(a) There are three (3) CRDG projects in operation;

(b) 4740.9 MWh have been produced across all CRDG facilities since each has become operational;

(c)

Rate Class	Count of Customers
A16	29
A60	35
C06	32
G02	10
G32	3

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(d)

Rate Class	Credit Transfer Amounts (\$)
A16	\$ 872.04
A60	\$ 864.89
C06	\$ 45,327.42
G02	\$ 29,747.99
G32	\$ 2,440.13

(e) \$868,505.79 total payments have been made to the three CRDG facilities.

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PUC 1-17

Request:

Please indicate the number of customers in the responses to PUC 1-14 and PUC 1-15 who are receiving the minimum bill credits for the last available 12-month period.

Response:

It is the Company’s belief that, to date, all of the 36 A-60 customers and 22 A-16 customers actively enrolled as credit recipients with a Community Remote Distributed Generation facility receive the minimum bill credits required by the tariff, based on the facility’s date of enrollment.