

Rhode Island Distributed Generation Solar Updates

December 5, 2019



STATE OF RHODE ISLAND

**OFFICE OF
ENERGY RESOURCES**

Rhode Island - Agenda

- **Status of 2011-2014 DG Contracts Program**
 - Installed capacity for solar only
- **Updates on Renewable Energy Growth Program**
 - Amount of capacity procured to date solar only
 - 2020 and future years capacity to be offered
- **Updates on Renewable Energy Fund**
 - Solar growth in 2019
- **Updates on Net Metering and Virtual Net Metering Operational and Forecasted Projects Megawatt Capacity in Queue**
 - Recent growth in 2019 by technology type as a result of net metering and virtual net metering, solar only

RI DG Standard Contracts

Year	Total Awarded		Operational		Pending		Cancelled/Terminated	
	Nameplate (kW)	Number of Projects	Nameplate (kW)	Number of Projects	Nameplate (kW)	Number of Projects	Nameplate (kW)	Number of Projects
2011	3,500	3	2,500	2	0	0	1,000	1
2012	11,177	12	10,028	9	0	0	1,149	3
2013	6,971	14	5,025	11	0	0	1,946	3
2014	11,973	15	4,992	4	0	0	6,981	11
RI DG Projects Summary:	33,621	44	22,545	26	0	0	11,076	18

Note#1: This summary is for Solar Projects ONLY. In the RI-DGSC Program projects were awarded in other Technology Classes.

Note#2: There are no pending projects outstanding. Final project went operational 1/30/2018.

Dated: 2/8/2018

2015-2019 RI REG Program

> 25 kW Scale REG Program Summary (SOLAR ONLY)

Year	Total Awarded		Operational		Pending		Cancelled/Terminated	
	Nameplate (kW DC)	Number of Projects	Nameplate (kW DC)	Number of Projects	Nameplate (kW DC)	Number of Projects	Nameplate (kW DC)	Number of Projects
2015	13,474	18	12,974	16	0	0	500	2
2016	19,908	28	7,477	15	950	1	11,481	12
2017	26,793	31	6,940	12	17,702	12	2,151	7
2018	26,687	33	1,057	9	23,417	21	2,213	3
2019	30,012	51	0	0	29,763	50	249	1

Data as of 12/1/19. Does not include 2019-OE3 anticipated results

Small Scale Solar (<=25 kW) REG Program Summary

Year	Total Awarded		Operational		Pending		Cancelled/Terminated	
	Nameplate (kW DC)	Number of Projects	Nameplate (kW DC)	Number of Projects	Nameplate (kW DC)	Number of Projects	Nameplate (kW DC)	Number of Projects
2015	3,395.16	483	3,114.50	439	0.00	0	280.66	44
2016	7,154.06	1,027	6,318.34	905	0.00	0	835.72	122
2017	7,043.94	1,105	6,073.16	944	109.41	18	861.37	143
2018	7,010.78	1,052	6,119.33	925	674.41	92	217.04	35
2019	3,673.97	517	1,852.29	271	1,721.69	234	99.99	12

Data as of 11/1/19

All Solar REG Program Summary

Year	Total Awarded		Operational		Pending		Cancelled/Terminated	
	Nameplate (kW DC)	Number of Projects	Nameplate (kW DC)	Number of Projects	Nameplate (kW DC)	Number of Projects	Nameplate (kW DC)	Number of Projects
2015	16,869	501	16,089	455	0	0	781	46
2016	27,062	1,055	13,796	920	950	1	12,317	134
2017	33,837	1,136	13,013	956	17,811	30	3,012	150
2018	33,698	1,085	7,176	934	24,091	113	2,430	38
2019	33,686	568	1,852	271	31,485	284	349	13

Data as of 12/1/19

RE Growth Future Activity

- **The 2020 RE Growth Program will offer 40 MW of capacity per statute plus 6.488 MW from recent cancellations from earlier years**
- **40 MW per year is available per the expansion of the program through 2029**
- **Total of the DGSC, initial REG, and extended REG programs will be 600 MW of DG, approximately 90% of which is expected to be solar measured in DC nameplate**

Renewable Energy Fund (REF)

- All REF projects are net metered
- **Commercial Scale 2019**
 - 53 Projects awarded for 2.8 MW
 - Total Awarded funds \$1.5M
- **Small Scale 2019**
 - 572 Projects awarded for 4.6 MW
 - Total Awarded funds \$3.5M
- **Brownfield Solar PV 2019**
 - 7 projects awarded for 12.7 MW
 - Total Awarded funds \$900K
- **Coming in 2020**
 - REF Program Team in process of developing a Solar storage and Microgrid Program

RI Net Metering and Virtual Net Metering

Virtual Net Meter		
Status	Number of Projects	Nameplate (kW AC)
Connected	24	72,013
Pending	86	499,148
Data as of 12/2/19. Includes Complex Projects only		

Net Meter		
Status	Number of Projects	Nameplate (kW AC)
Connected	3,891	62,057
Pending	794	80,101
Data as of 12/2/19. Includes Simple and Complex Projects		

Total Net Meter (VNM + NM)		
Status	Number of Projects	Nameplate (kW AC)
Connected	3,915	134,070
Pending	880	579,249
Data as of 12/2/19. Includes Simple and Complex Projects		

Total Solar in Interconnection Queue in RI

Status	Number of Projects	Nameplate (kW AC)
Solar Projects in Queue	1,792	787,255
Solar Projects with ISA	1,104	299,456
Data as of 12/2/19. Includes Simple and Complex Projects		

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