

DRAFT - Rhode Island Distributed Generation Updates

December 10, 2018



STATE OF RHODE ISLAND

**OFFICE OF
ENERGY RESOURCES**

Rhode Island - Agenda

- **Status of 2011-2014 DG Contracts Program**
 - Installed capacity by technology type, and as of what date
- **Updates on 2015-2018 Renewable Energy Growth Program**
 - Amount of capacity procured to date by technology type
 - Expected development timeline for REGP projects
 - 2019 and future years capacity to be offered
- **Updates on Renewable Energy Fund**
 - Solar growth in 2018
- **Updates on Net Metering and Virtual Net Metering Operational and Forecasted Projects Megawatt Capacity in Queue**
 - Recent growth in 2018 by technology type as a result of net metering and virtual net metering

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

2015-2018 RI REG Program

> 25 kW Scale Solar in 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 | 7,274 | 13 | 5,700 | 3 | 500 | 2 |
| 2016 | 19,908 | 28 | 4,245 | 11 | 6,679 | 12 | 8,984 | 5 |
| 2017 | 26,793 | 31 | 3,773 | 7 | 21,868 | 21 | 1,152 | 3 |
| 2018 | 23,130 | 29 | 0 | 0 | 17,371 | 24 | 999 | 1 |

Data as of 12/1/18. Includes OE2 projects that are still awaiting PUC approval. Does not include 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 | 6,298.62 | 903 | 571.52 | 82 | 283.92 | 42 |
| 2017 | 7,044.13 | 1,105 | 6,037.48 | 939 | 787.29 | 133 | 219.36 | 33 |
| 2018 | 7,016.59 | 1,052 | 5,069.87 | 767 | 1,840.26 | 267 | 106.46 | 18 |

Data as of 12/3/18

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 | 10,389 | 452 | 5,700 | 3 | 781 | 46 |
| 2016 | 27,062 | 1,055 | 10,544 | 914 | 7,251 | 94 | 9,268 | 47 |
| 2017 | 33,837 | 1,136 | 9,810 | 946 | 22,655 | 154 | 1,371 | 36 |
| 2018 | 30,147 | 1,081 | 5,070 | 767 | 19,211 | 291 | 1,105 | 19 |

Data as of 12/1/18

| Anticipated Awards for 2018-OE3 | |
|---------------------------------|--------------------|
| Nameplate (kW DC) | Number of Projects |
| 4,297 | 5 |

RE Growth Future Activity

- The RE Growth Program will offer remaining capacity from DGSC and earlier years of REG program for total of 55.562 MW in PY2019
- The RE Growth Program was extended by the RI legislature and will offer an additional 40 MW per year from 2020-2029
- 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 2018**
 - 32 Projects awarded for 16.5 MW
 - Total Awarded funds \$1.6M
- **Small Scale 2018**
 - 409 Projects awarded for 3 MW
 - Total Awarded funds \$2.6M
- **Coming in 2019**
 - REF Program Team in process of developing a Brownfields Solar PV Program and a Clean Energy Internship Program.

RI Net Metering and Virtual Net Metering

| Virtual Net Meter | | |
|-------------------|--------------------|-------------------|
| Status | Number of Projects | Nameplate (kW AC) |
| Connected | 8 | 21,046 |
| Pending | 77 | 431,426 |

Data as of 12/3/18. Complex Projects only

| Net Meter | | |
|-----------|--------------------|-------------------|
| Status | Number of Projects | Nameplate (kW AC) |
| Connected | 2,607 | 46,840 |
| Pending | 607 | 8,132 |

Data as of 12/3/18. Includes Simple and Complex Projects

| Total Net Meter (VNM + NM) | | |
|----------------------------|--------------------|-------------------|
| Status | Number of Projects | Nameplate (kW AC) |
| Connected | 2,615 | 67,886 |
| Pending | 684 | 439,558 |

Data as of 12/3/18. Includes Simple and Complex Projects

Total Solar in Interconnection Queue in RI

| Status | Number of Projects | Nameplate (kW AC) |
|-------------------------|--------------------|-------------------|
| Solar Projects in Queue | 1,317 | 769,570 |
| Solar Projects with ISA | 1,098 | 203,889 |

Data as of 12/3/18. Includes Simple and Complex Projects

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