



e-FILING REPORT COVER SHEET

COMPANY NAME: PORTLAND GENERAL ELECTRIC COMPANY

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? No Yes If yes, submit a redacted public version (or a cover letter) by email. Submit the confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

Select report type: RE (Electric) RG (Gas) RW (Water) RT (Telecommunications) RO (Other, for example, industry safety information)

Did you previously file a similar report? No Yes, report docket number: RE 67

Report is required by: OAR 860-082-0065(3)

Statute

Order

Note: A one-time submission required by an order is a compliance filing and not a report (file compliance in the applicable docket)

Other

(For example, federal regulations, or requested by Staff)

Is this report associated with a specific docket/case? No Yes, docket number:

List Key Words for this report. We use these to improve search results.

Division 82 Small Generator Interconnection Report

Send the completed Cover Sheet and the Report in an email addressed to PUC.FilingCenter@state.or.us

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Portland General Electric Company

121 SW Salmon Street • Portland, Oregon 97204
PortlandGeneral.com

May 30, 2019

Public Utility Commission of Oregon
Attn: Filing Center
201 High Street, S.E.
P.O. Box 1088
Salem, OR 97308-1088

RE: Division 82 Small Generator Interconnection Report

Pursuant to OAR 860-082-0065(3), PGE hereby submits the Company's annual report on interconnection activities, including:

- a) The number of complete small generator interconnection applications received;
- b) The number of small generator facility interconnections completed;
- c) The types of small generator facilities applying for interconnection and the nameplate capacity of the facilities;
- d) The location of completed and proposed small generator facilities by zip code;
- e) For each Tier 3 and Tier 4 small generator interconnection approval, the basic telemetry configuration, if applicable; and
- f) For each Tier 4 small generator interconnection approval:
 - (A) The interconnection facilities required to accommodate the interconnection of a small generator facility and the estimated costs of those facilities; and
 - (B) The system upgrades required to accommodate the interconnection of a small generator facility and the estimated costs of those upgrades.

This report is based on end of year 2017 and 2018 information available to the Company.

Should you have any questions or comments regarding this filing, please contact Colin Wright at (503) 464-8011.

Please direct all formal correspondence and requests to the following email address pge.opuc.filings@pgn.com

Sincerely,


for Karla Wenzel
Manager, Pricing & Tariffs

Enclosure

Summary

| Year | Applications Received |
|------|-----------------------|
| 2018 | 80 |
| 2017 | 89 |

| Year | Tier 2 | MW AC |
|------|---------|-------|
| 2017 | SPQ0053 | 2.000 |
| 2017 | SPQ0054 | 2.000 |
| 2017 | SPQ0056 | 2.000 |
| 2017 | SPQ0057 | 2.000 |
| 2017 | SPQ0061 | 2.000 |
| 2017 | SPQ0063 | 2.000 |
| 2017 | SPQ0065 | 2.000 |
| 2017 | SPQ0076 | 2.000 |
| 2017 | SPQ0077 | 2.000 |
| 2017 | SPQ0078 | 2.000 |
| 2017 | SPQ0081 | 2.000 |
| 2018 | SPQ0183 | 1.500 |

| Year | Tier 3 | MW AC | Telemetry Configuration | Interconnection Facilities | Interconnection Facilities Estimate | System Upgrade Requirements | System Upgrade Estimate |
|------|---------|-------|-------------------------|--|-------------------------------------|-----------------------------|-------------------------|
| 2017 | SPQ0084 | 3.000 | Telemetry not required | No Interconnection Facilities Required | \$ - | No System Upgrades required | \$ - |

| Year | Tier 4 | MW AC | Telemetry Configuration | Interconnection Facilities | Interconnection Facilities Estimate | System Upgrade Requirements | System Upgrade Estimate |
|------|---------|-------|--|--|-------------------------------------|---|-------------------------|
| 2017 | SPQ0044 | 2.200 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0045 | 0.750 | Telemetry not required | Extension of primary conductor and metering equipment | \$ 35,000.00 | No System Upgrades required | \$ - |
| 2017 | SPQ0046 | 2.500 | | Project remains in the study process at the time of report | | Project remains in the study process at the time of report | |
| 2017 | SPQ0047 | 2.500 | Telemetry not required | Extension of primary conductor, metering equipment and transfer trip | \$ 159,767.00 | Reconductor 900 feet | \$ 46,000.00 |
| 2017 | SPQ0048 | 2.500 | Telemetry not required | Extension of primary conductor, metering equipment and transfer trip | \$ 300,406.00 | Reconductor 1,000 feet, install 3 feeder reclosers, replace substation transformer relays, 57 kV voltage transformers | \$ 601,900.00 |
| 2017 | SPQ0049 | 4.000 | Telemetry required - Settings be developed | Extension of primary conductor, metering equipment and telemetry | \$ 258,555.00 | Replace feeder breaker and relay, 13 kV voltage transformer | \$ 146,000.00 |

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|------|---------|-------|------------------------|--|---------------|---|---------------|
| 2017 | SPQ0050 | 2.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0051 | 2.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0052 | 2.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0055 | 4.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0058 | 2.200 | | Project remains in the study process at the time of report | | Project remains in the study process at the time of report | |
| 2017 | SPQ0059 | 8.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0060 | 6.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0062 | 4.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0064 | 5.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0066 | 2.000 | Telemetry not required | Extension of primary conductor and metering equipment | \$ 25,000.00 | Replace feeder breaker and relay | \$ 167,200.00 |
| 2017 | SPQ0067 | 2.500 | Telemetry not required | Extension of primary conductor and metering equipment | \$ 30,000.00 | 13 kV voltage transformer | \$ 91,900.00 |
| 2017 | SPQ0068 | 2.500 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0069 | 2.000 | Telemetry not required | Extension of primary conductor, metering equipment and transfer trip | \$ 402,500.00 | Install 2 set of feeder reclosers | \$ 120,000.00 |
| 2017 | SPQ0070 | 1.850 | Telemetry not required | Extension of primary conductor, metering equipment and transfer trip | \$ 95,000.00 | Replace substation transformer relays | \$ 148,000.00 |
| 2017 | SPQ0071 | 1.850 | | Project remains in the study process at the time of report | | Project remains in the study process at the time of report | |
| 2017 | SPQ0072 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0073 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |

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|------|----------|--------|------------------------|--|---------------|---|---------------|
| 2017 | SPQ0074 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0075 | 2.000 | Telemetry not required | Extension of primary conductor and metering equipment | \$ 25,000.00 | Install feeder relay, 13 kV voltage transformer | \$ 93,500.00 |
| 2017 | SPQ0079 | 2.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0080 | 4.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0082 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0083 | 3.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0085 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0085a | 10.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0085b | 5.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0085c | 2.500 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0086 | 2.000 | Telemetry not required | Extension of primary conductor, metering equipment and transfer trip | \$ 122,308.00 | No System Upgrades required | \$ - |
| 2017 | SPQ0087 | 2.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0088 | 1.260 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0089 | 3.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0090 | 2.790 | Telemetry not required | Extension of primary conductor and metering equipment | \$ 30,000.00 | Install 2 set of feeder reclosers | \$ 120,000.00 |
| 2017 | SPQ0091 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |

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|------|---------|-------|--|--|---------------|---|---------------|
| 2017 | SPQ0092 | 2.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0093 | 2.000 | | Project remains in the study process at the time of report | | Project remains in the study process at the time of report | |
| 2017 | SPQ0094 | 2.000 | Telemetry not required | Extension of primary conductor, metering equipment and transfer trip | \$ 102,763.00 | No System Upgrades required | \$ - |
| 2017 | SPQ0095 | 2.970 | Telemetry not required | Extension of primary conductor, metering equipment and transfer trip | \$ 248,300.00 | Install feeder recloser, install a set of voltage regulators | \$ 155,200.00 |
| 2017 | SPQ0096 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0097 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0098 | 2.160 | Telemetry not required | Extension of primary conductor and metering equipment | \$ 30,000.00 | Reconductor 3200 feet, install 2 sets of feeder reclosers, install feeder voltage regulator | \$ 303,300.00 |
| 2017 | SPQ0099 | 4.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0100 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0101 | 2.970 | Telemetry not required | Extension of primary conductor and metering equipment | \$ 30,000.00 | Reconductor 2600 feet, feeder recloser, 13 kV voltage transformer | \$ 261,500.00 |
| 2017 | SPQ0102 | 2.560 | Telemetry not required | Extension of primary conductor, metering equipment and transfer trip | \$ 207,687.00 | No System Upgrades required | \$ - |
| 2017 | SPQ0103 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0104 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0105 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0106 | 3.000 | Telemetry required - Settings be developed | Extension of primary conductor, metering equipment and transfer trip | \$ 197,848.00 | Replace feeder recloser, replace feeder breaker and relay, 13 kV voltage transformer, SCADA | \$ 202,400.00 |
| 2017 | SPQ0107 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |

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|------|---------|-------|------------------------|---|--------------|--|---------------|
| 2017 | SPQ0108 | 2.970 | Telemetry not required | Extension of primary conductor and metering equipment | \$ 30,000.00 | Replace feeder recloser, replace feeder breaker and relay, 13 kV voltage transformer | \$ 295,500.00 |
| 2017 | SPQ0109 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0110 | 1.850 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0111 | 2.200 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0112 | 4.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0113 | 3.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0114 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0115 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0116 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0117 | 2.970 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0119 | 3.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0120 | 3.000 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0121 | 2.160 | | Project withdrew prior to execution of an interconnection agreement | | Project withdrew prior to execution of an interconnection agreement | |
| 2017 | SPQ0123 | 2.500 | | Project remains in the study process at the time of report | | Project remains in the study process at the time of report | |