

## 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)
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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?

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

Division 82 Small Generator Interconnection Report

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**Portland General Electric Company** 121 SW Salmon Street • Portland, Oregon 97204 PortlandGeneral.com

May 30, 2018

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 2016 and 2017 information available to the Company. PGE has changed the format of the report used in prior years due to the increased volume of interconnection activity.

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,

Karla Wenzel Manager, Pricing & Tariffs

Enclosure

## Summary

Year	Applications	Interconnection
	Received	Completed
2017	81	0
2016	33	0

Year	Tier 2	Zip Code	Generation	Tier	MW AC
			Туре		
2017	SPQ0053	97013	Solar	2	2.000
2017	SPQ0054	97381	Solar	2	2.000
2017	SPQ0056	97026	Solar	2	2.000
2017	SPQ0057	97026	Solar	2	2.000
2017	SPQ0061	97116	Solar	2	2.000
2017	SPQ0063	97032	Solar	2	2.000
2017	SPQ0065	97002	Solar	2	2.000
2017	SPQ0076	97038	Solar	2	2.000
2017	SPQ0077	97055	Solar	2	2.000
2017	SPQ0078	97055	Solar	2	2.000
2017	SPQ0081	97111	Solar	2	2.000

Y	'ear	Tier 3	Zip Code	Generation Type	Tier	MW AC	Telemetry Configuration
2	017	SPQ0084	97124	Diesel	3	3.000	None

Year	Tier 4	Zip Code	Generation	Tier	MW AC	Telemetry Configuration	Interconnection Facilities	Interconnection Facilities Estimate	System Upgrade Requirements	System
			Туре							Upgrade
										Estimate
							Project remains in the study process		Project remains in the study process	
2016	SPQ0007	97381	Solar	4	2.200		at the time of report	N/A	at the time of report	N/A
							Project remains in the study process		Project remains in the study process	
2016	SPQ0008	97381	Solar	4	2.200		at the time of report	N/A		N/A
							Project remains in the study process		Project remains in the study process	
2016	SPQ0010	97055	Solar	4	2.200		at the time of report	N/A	at the time of report	N/A
							Project remains in the study process		Project remains in the study process	
2016	SPQ0011	97378	Solar	4	2.200		at the time of report	N/A	at the time of report	N/A
							Project remains in the study process		Project remains in the study process	
2016	SPQ0012	97378	Solar	4	10.000		at the time of report	N/A	at the time of report	N/A
							Project remains in the study process		Project remains in the study process	
2016	SPQ0013	97055	Solar	4	10.000		at the time of report	N/A	at the time of report	N/A
							Project remains in the study process		Project remains in the study process	
2016	SPQ0014	97023	Solar	4	10.000		at the time of report	N/A	at the time of report	N/A
							Project remains in the study process		Project remains in the study process	
2016	SPQ0015	97140	Solar	4	2.190		at the time of report	N/A	at the time of report	N/A
							Project remains in the study process		Project remains in the study process	
2016	SPQ0016	97101	Solar	4	6.000		at the time of report	N/A	at the time of report	N/A
							Project remains in the study process		Project remains in the study process	
2016	SPQ0017	97119	Solar	4	2.200		at the time of report	N/A	at the time of report	N/A
							Project remains in the study process		Project remains in the study process	
2016	SPQ0018	97026	Solar	4	2.200		at the time of report	N/A	at the time of report	N/A
							Extension of primary conductor and		New 13 kV relay and voltage	
2015	SPQ0019	97114	Solar	4	2.200		metering equipment	\$35,000	transformer	\$111,876
							Project remains in the study process		Project remains in the study process	
2016	SPQ0020	97056	Solar	4	2.200		at the time of report	N/A	at the time of report	N/A
							Project remains in the study process		Project remains in the study process	
2016	SPQ0021	97303	Solar	4	2.200		at the time of report	N/A	at the time of report	N/A
							Project remains in the study process		Project remains in the study process	
2016	SPQ0022	97396	Solar	4	2.200		at the time of report	N/A	at the time of report	N/A

	1	1	r			Desired and in the study of a		Desired and the state of the state	
		07074				Project remains in the study process		Project remains in the study process	
2016	SPQ0022A	97071	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
						Extension of primary conductor,		New 13 kV relay, voltage	
						metering equipment and		transformer, fiber underbuild and	
2015	SPQ0023	97017	Solar	4 2.200		communications equipment	\$25,000	communication equipment	\$260,067
					New fiber from customers site to the	Extension of primary conductor and		Distribution line modifications and	
2015	SPQ0024	97304	Solar	4 2.200	utility substation	metering equipment	\$25,000	voltage transformer	\$109,550
						Project remains in the study process		Project remains in the study process	
2016	SPQ0025	97114	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
						Project remains in the study process		Project remains in the study process	
2016	SPQ0026	97022	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
						Project remains in the study process		Project remains in the study process	
2016	SPQ0027	97023	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
						Project remains in the study process		Project remains in the study process	1
2016	SPQ0028	97305	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
						Project remains in the study process	· · · ·	Project remains in the study process	
2016	SPQ0029	97055	Solar	4 10.000		at the time of report	N/A	at the time of report	N/A
_010		5.000		10.000		Project remains in the study process	Ny/C	Project remains in the study process	,/
2016	SPQ0030	97055	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
2010	5. 40050	57033	55.ai	- 2.200		Project remains in the study process	174	Project remains in the study process	
2016	SPQ0031	97017	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
2010	51 00051	5/01/	50181	4 2.200		Project remains in the study process	174	Project remains in the study process	11/7
2016	SPQ0032	97362	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
2010	3FQ0032	57302	30181	4 2.200		Project remains in the study process	N/A	Project remains in the study process	
2010	6000000	07071	Color	4 2.200			N/A		
2016	SPQ0033	97071	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
2016	6000004	07404	Color	1 2 200		Project remains in the study process		Project remains in the study process	
2016	SPQ0034	97101	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
		07000				Project remains in the study process		Project remains in the study process	
2016	SPQ0035	97038	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
						Project remains in the study process		Project remains in the study process	
2016	SPQ0036	97305	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
						Project remains in the study process		Project remains in the study process	
2016	SPQ0037	97362	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
						Project remains in the study process		Project remains in the study process	
2016	SPQ0038	97038	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
						Project remains in the study process		Project remains in the study process	
2016	SPQ0039	97128	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
						Project withdrew prior to execution of		Project withdrew prior to execution	
2016	SPQ0040	97325	Solar	4 2.500		agreement	N/A	of agreement	N/A
						Project withdrew prior to execution of		Project withdrew prior to execution	
2016	SPQ0041	97325	Solar	4 2.500		agreement	N/A	of agreement	N/A
						Project remains in the study process		Project remains in the study process	
2016	SPQ0042	97116	Solar	4 2.290		at the time of report	N/A	at the time of report	N/A
						Project remains in the study process	i	Project remains in the study process	
2016	SPQ0043	97055	Solar	4 10.000		at the time of report	N/A	at the time of report	N/A
						Project remains in the study process		Project remains in the study process	
2017	SPQ0044	97148	Solar	4 2.200		at the time of report	N/A	at the time of report	N/A
-	1					Project remains in the study process		Project remains in the study process	
2017	SPQ0045	97303	Solar	4 0.750		at the time of report	N/A	at the time of report	N/A
			l l			Project remains in the study process	,	Project remains in the study process	
2017	SPQ0046	97362	Solar	4 2.500		at the time of report	N/A	at the time of report	N/A
		5.502		2.500		Project remains in the study process	Ny/C	Project remains in the study process	
2017	SPQ0047	97017	Solar	4 2.500		at the time of report	N/A	at the time of report	N/A
-017	4007/	5,517	- 5.0.	. 2.500		Project remains in the study process	174	Project remains in the study process	-
2017	SPQ0048	97305	Solar	4 2.500		at the time of report	N/A	at the time of report	N/A
2017	01 00040	57303	55101	- 2.300		Project remains in the study process	N/A	Project remains in the study process	
2017	SPQ0049	97055	Solar	4 4.000		at the time of report	N/A	at the time of report	N/A
2017	51 Q0045	57055	30101	4.000		at the time of report	N/A		IN/A

	1						
2017	600050	07055	C - I		2 000	Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0050	97055	Solar	4	2.000	agreement N/A of agreement	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0051	97009	Solar	4	2.000	agreement N/A of agreement	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0052	97013	Solar	4	2.000	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0055	97362	Solar	4	4.000	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0058	97378	Solar	4	2.200	at the time of report N/A at the time of report	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0059	97362	Solar	4	8.000	agreement N/A of agreement	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0060	97009	Solar	4	6.000	agreement N/A of agreement	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0062	97116	Solar	4	4.000	agreement N/A of agreement	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0064	97032	Solar	4	5.000	agreement N/A of agreement	N/A
		-				Project remains in the study process Project remains in the study process	
2017	SPQ0066	97305	Solar	4	2.000	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0067	97009	Solar	4	2.500	at the time of report N/A at the time of report	N/A
2017	51 00007	57005	50101		2.500	Project remains in the study process Project remains in the study process	14/7
2017	SPQ0068	97114	Solar	4	2.500	at the time of report N/A at the time of report	N/A
2017	51 00000	57114	50101		2.500	Project remains in the study process Project remains in the study process	14/74
2017	SPQ0069	97038	Solar	4	2.000	at the time of report N/A at the time of report	N/A
2017	3FQ0009	57038	30181	4	2.000	Project remains in the study process Project remains in the study process	N/A
2017	6000070	07055	Color		1 050		NI/A
2017	SPQ0070	97055	Solar	4	1.850	at the time of report N/A at the time of report	N/A
2047	600074	07055	Calas		4 050	Project remains in the study process Project remains in the study process	
2017	SPQ0071	97055	Solar	4	1.850	at the time of report N/A at the time of report	N/A
		07000				Project remains in the study process Project remains in the study process	
2017	SPQ0072	97038	Solar	4	2.970	at the time of report N/A at the time of report	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0073	97375	Solar	4	2.970	agreement N/A of agreement	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0074	97381	Solar	4	2.970	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0075	97071	Solar	4	2.000	at the time of report N/A at the time of report	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0079	97013	Solar	4	2.000	agreement N/A of agreement	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0080	97111	Solar	4	4.000	agreement N/A of agreement	N/A
	I T					Project remains in the study process Project remains in the study process	
2017	SPQ0082	97038	Solar	4	2.970	at the time of report N/A at the time of report	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0083	97013	Solar	4	3.000	agreement N/A of agreement	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0085	97038	Solar	4	2.970	agreement N/A of agreement	N/A
					-	Project remains in the study process Project remains in the study process	
2017	SPQ0085a	97013	Solar	4	10.000	at the time of report N/A at the time of report	N/A
	1					Project remains in the study process Project remains in the study process	
2017	SPQ0085b	97022	Solar	4	5.000	at the time of report N/A at the time of report	N/A
		-				Project remains in the study process Project remains in the study process	,
2017	SPQ0085c	97317	Solar	4	2.500	at the time of report N/A at the time of report	N/A
		5,517		1 1	2.300	Project remains in the study process Project remains in the study process	,/
2017	SPQ0086	97038	Solar	А	2.000	at the time of report N/A at the time of report	N/A
2017	0. 0000	57038	00101		2.000	Project remains in the study process Project remains in the study process	N/A
2017	SPQ0087	97362	Solar	4	2.000	at the time of report N/A at the time of report	N/A
2017	JI (UUU0/	9/302	JUIAI	4	2.000	at the time of report N/A at the time of report	IN/A

	1						r
2017	600000	07114	C - I		1.200	Project remains in the study process Project remains in the study process	
2017	SPQ0088	97114	Solar	4	1.260	at the time of report N/A at the time of report	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0089	97114	Solar	4	3.000	agreement N/A of agreement	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0090	97045	Solar	4	2.790	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0091	97045	Solar	4	2.970	at the time of report N/A at the time of report	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0092	97045	Solar	4	2.000	agreement N/A of agreement	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0093	97038	Solar	4	2.000	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0094	97038	Solar	4	2.000	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0095	97381	Solar	4	2.970	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0096	97378	Solar	4	2.970	at the time of report N/A at the time of report	N/A
				1		Project remains in the study process Project remains in the study process	
2017	SPQ0097	97055	Solar	4	2.970	at the time of report N/A at the time of report	N/A
2017	5. 00057	57000	o o la l		2.570	Project remains in the study process Project remains in the study process	,//
2017	SPQ0098	97002	Solar	4	2.160	at the time of report N/A at the time of report	N/A
2017	51 00058	57002	50181	4	2.100	Project withdrew prior to execution of Project withdrew prior to execution	11/7
2017	SPQ0099	97128	Solar	4	4.000	agreement N/A of agreement	N/A
2017	3FQ0099	57128	30181	4	4.000	Project remains in the study process Project remains in the study process	N/A
2017	SPQ0100	97022	Color	4	2.970		N/A
2017	3PQ0100	97022	SUIdi	4	2.970		IN/ A
2047	6000404	07200	C - I		2.070	Project remains in the study process Project remains in the study process	
2017	SPQ0101	97396	Solar	4	2.970	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0102	97009	Solar	4	2.560	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0103	97303	Solar	4	2.970	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0104	97089	Solar	4	2.970	at the time of report N/A at the time of report	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0105	97116	Solar	4	2.970	agreement N/A of agreement	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0106	97378	Solar	4	3.000	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0107	97140	Solar	4	2.970	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0108	97038	Solar	4	2.970	at the time of report N/A at the time of report	N/A
	1					Project remains in the study process Project remains in the study process	
2017	SPQ0109	97022	Solar	4	2.970	at the time of report N/A at the time of report	N/A
					-	Project remains in the study process Project remains in the study process	Ĺ Ó
2017	SPQ0110	97381	Solar	4	1.850	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	, í
2017	SPQ0111	97038	Solar	4	2.200	at the time of report N/A at the time of report	N/A
		5,050		1 1	2.200	Project withdrew prior to execution of Project withdrew prior to execution	,//
2017	SPQ0112	97392	Solar	4	4.000	agreement N/A of agreement	N/A
2017	0. 20112	5,552	55/01		4.500	Project remains in the study process Project remains in the study process	10/7
2017	SPQ0113	97325	Solar		3.000	at the time of report N/A at the time of report	N/A
2017	31 QUITS	5/525	50101	4	3.000	Project remains in the study process Project remains in the study process	N/A
2017	5000114	07020	Color		2 070		NI / A
2017	SPQ0114	97038	20191	4	2.970	at the time of report N/A at the time of report	N/A
2017	6000145		C - I			Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0115	97396	solar	4	2.970	agreement N/A of agreement	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0116	97396	Solar	4	2.970	agreement N/A of agreement	N/A

						Project remains in the study process Project remains in the study process	
2017	SPQ0117	97378	Solar	4	2.970	at the time of report N/A at the time of report	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0119	97101	Solar	4	3.000	agreement N/A of agreement	N/A
						Project withdrew prior to execution of Project withdrew prior to execution	
2017	SPQ0120	97392	Solar	4	3.000	agreement N/A of agreement	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0121	97378	Solar	4	2.160	at the time of report N/A at the time of report	N/A
						Project remains in the study process Project remains in the study process	
2017	SPQ0123	97004	Solar	4	2.500	at the time of report N/A at the time of report	N/A