



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

January 22, 2019

Public Utility Commission of Oregon
Attn: Filing Center
201 High Street S.E., Suite 100
P.O. Box 1088
Salem, OR 97308-1088

RE: AR 622 – PGE’s Updated Data

Portland General Electric (PGE) submits the enclosed updated project list and a completed copy of Staff’s compliance template for filing in Docket No. AR 622.

PGE looks forward to continuing discussion at the Commissioner workshop on January 29, 2019.

Should you have any questions 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.

Respectfully submitted,

A handwritten signature in blue ink that reads "Karla Wenzel". The signature is fluid and cursive, written in a professional style.

Karla Wenzel
Manager, Pricing and Tariffs

PacifiCorp

	Denominators		Numerators ->		Options									
					ODOE Database	Utility Data OR Only <20 MW RE Projects with REC ownership		OR Only <20MW RE Projects (with and w/out RECs)		All <20MW RE Projects with REC ownership		All <20MW RE Projects (with and w/out RECs)		
	2025	2030	2025	2030	2018	2025	2030	2025	2030	2025	2030	2025	2030	
	Options	MW	MW	8% target (MW)	8% target (MW)	443	305	106						
Demand	Oregon Share of System Peak*	2,994		240	0	15%	10%	4%					-	-
	Plus Reserve Margin	3,383		271	0	60%	9%	3%					-	-
Supply	All Generation Resources	4,255		340	0	47%	7%	2%					-	-
	Adding Market Purchases	4,598		368	0	44%	7%	2%					-	-

PGE

	Denominators		Numerators ->		Options									
					ODOE Database	Utility Data OR Only <20 MW RE Projects with REC ownership		OR Only <20MW RE Projects (with and w/out RECs)		All <20MW RE Projects with REC ownership		All <20MW RE Projects (with and w/out RECs)		
	2025	2030	2025	2030	2018	2025	2030	2025	2030	2025	2030	2025	2030	
	Options	MW	MW	8% target (MW)	8% target (MW)	958	714	696	810	810	714	696	810	810
Demand	Peak Demand (Load)	3,446	3,586	276	287	28%	21%	19%	23%	23%	21%	19%	23%	23%
	Peak Demand, Plus Reserve Margin	4,066	4,234	325	339	24%	18%	16%	20%	19%	18%	16%	20%	19%
Supply	All Generation Resources	4,586	4,249	367	340	21%	16%	16%	18%	19%	16%	16%	18%	19%
	Adding Market Purchases	5,281	5,424	422	434	18%	14%	13%	15%	15%	14%	13%	15%	15%

- (1)
- (2)
- (3)
- (4)

PGE Notes:

1. From the 2016 IRP Update.
2. The 2016 IRP Update load plus the 2016 IRP reserve margin.
3. Resource values are from the 2016 IRP Update. Thermal, hydro, biomass, geothermal, dispatchable standby generation, and demand response are based on the same accounting methodology as in Table P-1 of the 2016 IRP. Wind and solar are based on the plant capacity (not the methodology used in Table P-1).
4. In addition to Resources, Total Supply includes the value included for market capacity and the identified capacity need from the 2016 IRP Update. The market capacity is not adjusted for seasonal availability (not the methodology used in Table P-1 of the 2016 IRP).
5. Total Reserve Margin values are from Table P-1 of the 2016 IRP. The TRM was not calculated for the 2016 IRP Update.

	2025	2030
PAC Reserve Margin	13%	13%
PGE Reserve Margin	18%	18%

* 26.725% * Total System

This dataset contains solely contracted and operations QFs under 20 MWs as of December :

Facility Name

Starbuck Properties

OE Solar 3

Boring Solar

Ballston Solar

O'neil Creek Solar

Willamina Mill Solar

Palmer Solar

Rafael Solar

Case Creek Solar

Labish Solar

Day Hill Solar

Kale Patch Solar

Eola Solar

Dryland Solar

Cosper Creek Solar

Sesqui-C Solar

Radio Solar

Buckner Creek Solar

Dunn Rd Solar

Gun Club Solar

Cow Creek Solar

Zena Solar

Williams Acres Solar

Carnes Creek Solar

Covanta Marion

Brightwood Solar

Townsend Solar

Ashcroft Solar

Domaine Drouhin

Energy Partners I

Energy Partners II

Evergreen BioPower

JC Biomethane

Kaiser Creek Solar

Parrott Creek Solar

Ridgeway Solar

Liberal Solar

Delaney Solar
Eagle Creek Solar
Rock Creek Solar
Minikahda Hydropower Co.
St Louis Solar
Thomas Creek Solar
Tickle Creek Solar
Volcano Solar
Tygh Valley Solar
Starvation Solar
Dayton Solar I
Wasco Solar 1
Fort Rock Solar I
Fort Rock Solar II
Harney Solar I
Fort Rock Solar IV
Riley Solar
Alfalfa Solar
Steel Bridge Solar
Fremont Solar
Fossil Lake
Lakeview
OM Power 1
OE Solar 5
OE Solar 6
Butler Solar
Amity Solar
Firwood Solar
Stringtown Solar
Bridgeport Solar
Starlight Solar
Duus Solar
PaTu Wind
NorWest Energy 14
SP Solar 1
SP Solar 2
SP Solar 5
SP Solar 6
SP Solar 7
SP Solar 8
Sheep Solar
Silverton Solar
Coffin Butte
South Burns Solar I
West Hines Solar I

Suntex Solar
Alkali
Rock Garden
St. Helen's Organic Recycling
SSD Clackamas 1
SSD Marion 3
SSD Clackamas 4
SSD Marion 1
SSD Marion 5
SSD Clackamas 7
SSD Marion 6
DD - Molalla
DF - West Eagle Creek
AM - West Silverton
DC - Donald
SB - South Wilamina
DB - Bull Run
PG - West Sheridan
KT - Molalla
Bristol Solar
Ashfield Solar
SulusSolar6
Fairview Solar
Milford Solar
Black Forest Solar
Kensington Solar
Greenpark Solar
Kerry Solar
SulusSolar9
Gatwick Solar
Auburn Solar
Manchester Solar
Gonzaga Solar
Clayfield Solar
Carlow Solar
Stark Solar
Drift Creek
Yamhill Creek Solar
Brush Creek Solar
Sandy River Solar
Brush College Solar
Mountain Meadow Solar
Mt Hope Solar
River Valley Solar
Fruitland Creek

Raven Loop
Waconda Solar
Tualatin Valley Water District
Von Family Limited Partnership
Vaughan Solar
Brompton Solar
Dover Solar
Waterford Solar
Clapham Solar
Castleknock Solar
Connley Solar
Loyola Solar
Marquam Creek Solar
Walker Creek Solar
Corduff Solar
Trinity Solar
Rotunda Solar
Brownseed Solar
Hayfield Solar
Howth Solar
Grand Canal Solar
Dawson Solar
SulusSolar30
Milton Solar
Cork Solar
Cavan Solar
Belvedere Solar
Merrion Solar
Generic (Kyle Roberts)
Carus Solar
Reed Solar
West Union Solar
Oak Knoll Solar
Basin Creek Solar
Conifer Grove Solar
Minke Solar
Pika Solar
Skyward Solar
Big Horn
PGE-Net Metering (total for installed projects through Nov 2018)
ODOT-I5 & I205 - ODOT-I5 & I205
ProLogis East 1 - ProLogis East 1
ProLogis East 2 - ProLogis East 2
ProLogis PDX Park 4 - ProLogis PDX Park 4
Jennifer District Center #1 - ProLogis - Jennifer 1

Jennifer District Center #2 - ProLogis - Jennifer 2
Jennifer District Center #3 - ProLogis - Jennifer 3
PDX ProLogis Park 1 - ProLogis - Park 1
PDX ProLogis Park 2 - ProLogis - Park 2
Southshore Corp Bldg A - ProLogis - Southshore A
Southshore Corp Bldg C - ProLogis - Southshore C
Baldock Solar Highway - Baldock Solar
Bellevue Solar, LLC - Bellevue Solar, LLC
Portland Habilitation Center - Portland Habilitation Center
Outback Solar - Outback Solar
Yamhill Solar, LLC - Yamhill Solar, LLC
PGE-SPO-G1 - PGE-SPO-G1
PGE-SPO-G2 - PGE-SPO-G2
PGE-SPO-G3 - PGE-SPO-G3
PGE-SPO-G4 - PGE-SPO-G4
PGE-SPO-G5 - PGE-SPO-G5
PGE-SPO-G6 - PGE-SPO-G6
PGE-SPO-G7 - PGE-SPO-G7
PGE-SPO-G8 - PGE-SPO-G8
PGE-SPO-G9 - PGE-SPO-G9
PGE-SPO-G10 - PGE-SPO-G10
PGE-SPO-G11 - PGE-SPO-G11
PGE-SPO-G12 - PGE-SPO-G12
PGE-SPO-G13 - PGE-SPO-G13
PGE-SPO-G14 - PGE-SPO-G14
PGE-SPO-G15 - PGE-SPO-G15
PGE-SPO-G16 - PGE-SPO-G16
PGE-SPO-G17 - PGE-SPO-G17
PGE-SPO-G18 - PGE-SPO-G18
PGE-SPO-G19 - PGE-SPO-G19
PGE-SPO-G20 - PGE-SPO-G20
PGE-SPO-G21 - PGE-SPO-G21
PGE-SPO-G22 - PGE-SPO-G22
PGE-SPO-G23 - PGE-SPO-G23
PGE-SPO-G24 - PGE-SPO-G24
PGE-SPO-G25 - PGE-SPO-G25
PGE-SPO-G26 - PGE-SPO-G26
PGE-SPO-G27 - PGE-SPO-G27
PGE-SPO-G28 - PGE-SPO-G28
PGE-SPO-G29 - PGE-SPO-G29
PGE-SPO-G30 - PGE-SPO-G30
PGE-SPO-G31 - PGE-SPO-G31
PGE-SPO-G32 - PGE-SPO-G32
PGE-SPO-G33 - PGE-SPO-G33
PGE-SPO-G34 - PGE-SPO-G34

PGE-SPO-G35 - PGE-SPO-G35
PGE-SPO-G36 - PGE-SPO-G36
PGE-SPO-G37 - PGE-SPO-G37
PGE-SPO-G38 - PGE-SPO-G38
PGE-SPO-G39 - PGE-SPO-G39
PGE-SPO-G40 - PGE-SPO-G40
PGE-SPO-G41 - PGE-SPO-G41
PGE-SPO-G42 - PGE-SPO-G42
PGE-SPO-G43 - PGE-SPO-G43
PGE-SPO-G44 - PGE-SPO-G44
PGE-SPO-G45 - PGE-SPO-G45
PGE-SPO-G46 - PGE-SPO-G46
PGE-SPO-G47 - PGE-SPO-G47
PGE-SPO-G48 - PGE-SPO-G48
PGE-SPO-G49 - PGE-SPO-G49
PGE-SPO-G50 - PGE-SPO-G50
PGE-SPO-G51 - PGE-SPO-G51
PGE-SPO-G52 - PGE-SPO-G52
PGE-SPO-G53 - PGE-SPO-G53
PGE-SPO-G54 - PGE-SPO-G54
PGE-SPO-G55 - PGE-SPO-G55
PGE-SPO-G56 - PGE-SPO-G56
PGE-SPO-G57 - PGE-SPO-G57
PGE-SPO-G58 - PGE-SPO-G58
PGE-SPO-G59 - PGE-SPO-G59
PGE-SPO-G60 - PGE-SPO-G60
PGE-SPO-G61 - PGE-SPO-G61
PGE-SPO-G62 - PGE-SPO-G62
PGE-SPO-G63 - PGE-SPO-G63
PGE-SPO-G64 - PGE-SPO-G64
PGE-SPO-G65 - PGE-SPO-G65

QF = Qualifying Facility
 NM = Net Metering
 PPA = Power Purchase Agreement
 SPO = Solar Payment Option
 UO = Utility Owned

Note: For non-QFs, the online date is COD year or first year of contract.

12, 2018.

Resource Type (technology)	Facility Location (County)	Facility Location (State)	Online Date	Utility Receiving RECs During 2025
Solar	Marion	OR	1/1/2011	No
Solar	Sherman	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Washington	OR		Yes
Solar	Polk	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Marion	OR		Yes
Solar	Marion	OR		Yes
Solar	Marion	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Marion	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Polk	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Polk	OR		Yes
Solar	Polk	OR		Yes
Solar	Marion	OR		Yes
Solar	Marion	OR		Yes
Biomass	Marion	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Polk	OR		Yes
Solar	Yamhill	OR	4/5/2013	No
Biomass	Tillamook	OR		Yes
Biomass	Lake	OR		Yes
Biomass	Linn	OR	2/1/2018	Yes
Biogas	Lane	OR	9/26/2013	No
Solar	Clackamas	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Polk	OR		Yes
Solar	Clackamas	OR		Yes

Solar	Marion	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Clackamas	OR		Yes
Hydro	Clackamas	OR	2/14/2014	No
Solar	Marion	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Marion	OR		Yes
Solar	Wasco	OR		Yes
Solar	Harney	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Wasco	OR		Yes
Solar	Lake	OR		Yes
Solar	Lake	OR		Yes
Solar	Umatilla	OR		Yes
Solar	Lake	OR		Yes
Solar	Harney	OR		Yes
Solar	Deschutes	OR		Yes
Solar	Polk	OR	2/18/2016	No
Solar	Lake	OR		No
Solar	Lake	OR		Yes
Solar	Lake	OR		Yes
Geothermal	Klamath	OR		Yes
Solar	Umatilla	OR		Yes
Solar	Umatilla	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Washington	OR		Yes
Solar	Polk	OR		Yes
Solar	Washington	OR		Yes
Solar	Clackamas	OR		Yes
Wind	Sherman	OR	12/1/2010	No
Solar	Polk	OR	2/8/2018	Yes
Solar	Marion	OR	2/8/2018	Yes
Solar	Clackamas	OR		Yes
Solar	Yamhill	OR	2/8/2018	Yes
Solar	Clackamas	OR	8/21/2018	Yes
Solar	Yamhill	OR	6/30/2018	Yes
Solar	Polk	OR	2/8/2018	Yes
Solar	Marion	OR	2/8/2018	Yes
Solar	Marion	OR	2/8/2018	Yes
Biogas	Benton	OR	10/1/2012	No
Solar	Harney	OR		Yes
Solar	Harney	OR		Yes

Solar	Harney	OR		Yes
Solar	Lake	OR		Yes
Solar	Lake	OR		Yes
Biogas	Clackamas	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Marion	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Marion	OR		Yes
Solar	Marion	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Marion	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Marion	OR		Yes
Solar	Marion	OR		Yes
Solar	Polk	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Marion	OR		Yes
Solar	Marion	OR		Yes
Solar	Marion	OR		Yes
Solar	Polk	OR		Yes
Solar	Washington	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Washington	OR		Yes
Solar	Marion	OR		Yes
Solar	Marion	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Morrow	OR		Yes
Solar	Marion	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Marion	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Polk	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Marion	OR		Yes
Solar	Marion	OR		Yes

Solar	Polk	OR		Yes
Solar	Marion	OR		Yes
Hydro	Washington	OR	4/1/2013	No
Hydro	Yamhill	OR	2/14/2014	No
Solar	Clackamas	OR		Yes
Solar	Washington	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Polk	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Washington	OR		Yes
Solar	Lake	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Polk	OR		Yes
Solar	Polk	OR		Yes
Solar	Clackamas	OR		Yes
Solar		OR		Yes
Solar		OR		Yes
Solar		OR		Yes
Solar		OR		Yes
Solar		OR		Yes
Solar		OR		Yes
Solar		OR		Yes
Solar		OR		Yes
Solar		OR		Yes
Solar	Clackamas	OR		Yes
Solar	Washington	OR		Yes
Solar	Marion	OR		Yes
Solar		OR		Yes
Solar		OR		Yes
Solar	Clackamas	OR		Yes
Solar	Polk	OR		Yes
Solar	Washington	OR		Yes
Solar	Polk	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Yamhill	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Marion	OR		Yes
Solar	Clackamas	OR		Yes
Solar	Marion	OR		Yes
Solar	Various	OR	Various	No
Solar	Washington	OR	2008	Yes
Solar	Multnomah	OR	2009	Yes
Solar	Multnomah	OR	2008	Yes
Solar	Multnomah	OR	2008	Yes
Solar	Clackamas	OR	2010	Yes

Utility Receiving RECs During 2030	Start of Deficiency Period	Average Annual Output (MWh)
No	NA	28
Yes	1/1/2020	22529
Yes	1/1/2020	2106
Yes	1/1/2020	2273
Yes	1/1/2020	2147
Yes	1/1/2020	2273
Yes	1/1/2020	2243
Yes	1/1/2020	2178
Yes	1/1/2020	2443
Yes	1/1/2020	2290
Yes	1/1/2020	2161
Yes	1/1/2020	2290
Yes	1/1/2025	3432
Yes	1/1/2025	4448
Yes	1/1/2025	4463
Yes	1/1/2025	3490
Yes	1/1/2025	3327
Yes	1/1/2025	3841
Yes	1/1/2025	2915
Yes	1/1/2025	4246
Yes	1/1/2025	3124
Yes	1/1/2025	4494
Yes	1/1/2025	4448
Yes	1/1/2025	4494
Yes	1/1/2025	97236
Yes	1/1/2020	17917
Yes	1/1/2025	3917
Yes	1/1/2025	4601
No	NA	0
Yes	1/1/2020	74393
Yes	1/1/2020	74393
Yes	1/1/2020	45545
No	NA	12250
Yes	1/1/2025	4059
Yes	1/1/2025	4074
Yes	1/1/2025	5149
Yes	1/1/2025	17361

Yes	1/1/2025	4703
Yes	1/1/2025	9092
Yes	1/1/2025	4011
No	NA	254
Yes	1/1/2020	2178
Yes	1/1/2020	2294
Yes	1/1/2020	1782
Yes	1/1/2020	731
Yes	1/1/2020	18500
Yes	1/1/2020	19200
Yes	1/1/2020	16000
Yes	1/1/2020	18500
Yes	1/1/2020	19200
Yes	1/1/2020	19200
Yes	1/1/2020	19200
Yes	1/1/2020	20000
Yes	1/1/2020	20000
Yes	1/1/2020	20000
No	NA	3629
No	NA	16756
Yes	1/1/2020	22365
Yes	1/1/2020	24625
Yes	1/1/2020	72809
Yes	1/1/2020	21940
Yes	1/1/2020	21940
Yes	1/1/2020	8180
Yes	1/1/2020	8180
Yes	1/1/2020	20358
Yes	1/1/2020	8296
Yes	1/1/2020	14563
Yes	1/1/2020	8300
Yes	1/1/2020	18800
No	NA	26000
Yes	1/1/2020	2998
Yes	1/1/2020	3028
Yes	1/1/2020	3028
Yes	1/1/2020	2998
Yes	1/1/2020	3028
Yes	1/1/2020	3028
Yes	1/1/2020	3028
Yes	1/1/2020	3989
Yes	1/1/2020	3887
No	NA	47123
Yes	1/1/2020	19000
Yes	1/1/2020	19000

Yes	1/1/2020	19000
Yes	1/1/2020	19000
Yes	1/1/2020	19000
Yes	1/1/2020	12591
Yes	1/1/2025	8197
Yes	1/1/2020	4099
Yes	1/1/2020	4099
Yes	1/1/2025	4055
Yes	1/1/2020	4099
Yes	1/1/2020	4099
Yes	1/1/2020	4099
Yes	1/1/2025	4640
Yes	1/1/2025	4009
Yes	1/1/2025	4712
Yes	1/1/2025	3112
Yes	1/1/2025	4641
Yes	1/1/2025	3652
Yes	1/1/2025	4736
Yes	1/1/2025	4686
Yes	1/1/2025	4670
Yes	1/1/2025	4718
Yes	1/1/2025	4732
Yes	1/1/2025	4711
Yes	1/1/2025	4332
Yes	1/1/2025	1827
Yes	1/1/2025	1382
Yes	1/1/2025	1875
Yes	1/1/2025	4683
Yes	1/1/2025	5210
Yes	1/1/2025	5049
Yes	1/1/2025	1962
Yes	1/1/2025	3171
Yes	1/1/2025	3530
Yes	1/1/2025	4043
Yes	1/1/2025	3977
Yes	1/1/2020	24772
Yes	1/1/2020	3813
Yes	1/1/2020	2240
Yes	1/1/2020	2192
Yes	1/1/2025	3399
Yes	1/1/2025	3595
Yes	1/1/2025	4315
Yes	1/1/2025	4448
Yes	1/1/2025	3558
Yes	1/1/2025	2518

Yes	1/1/2025	3570
Yes	1/1/2025	4044
No	NA	190
No	NA	250
Yes	1/1/2025	3868
Yes	1/1/2025	5045
Yes	1/1/2025	3921
Yes	1/1/2025	3974
Yes	1/1/2025	4187
Yes	1/1/2025	4096
Yes	1/1/2025	26700
Yes	1/1/2025	3175
Yes	1/1/2025	3018
Yes	1/1/2025	3840
Yes	1/1/2025	3261
Yes	1/1/2025	5013
Yes	1/1/2025	
Yes	1/1/2025	
Yes	1/1/2025	
Yes	1/1/2025	
Yes	1/1/2025	
Yes	1/1/2025	
Yes	1/1/2025	
Yes	1/1/2025	
Yes	1/1/2025	2505
Yes	1/1/2025	3248
Yes	1/1/2025	4907
Yes	1/1/2025	
Yes	1/1/2025	
Yes	1/1/2025	3868
Yes	1/1/2025	3868
Yes	1/1/2025	39365
Yes	1/1/2025	39365
Yes	1/1/2025	38072
Yes	1/1/2025	40113
Yes	1/1/2025	3757
Yes	1/1/2025	3782
Yes	1/1/2025	3639
Yes	1/1/2025	3965
No		
Yes		
No		
No		
No		
No		

AC Rating (MW)	Status	Type
0.03	Online	QF
10.00	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
2.50	Contracted	QF
2.50	Contracted	QF
2.50	Contracted	QF
2.50	Contracted	QF
2.50	Contracted	QF
1.85	Contracted	QF
2.50	Contracted	QF
1.75	Contracted	QF
2.50	Contracted	QF
2.50	Contracted	QF
2.50	Contracted	QF
13.10	Contracted	QF
10.00	Contracted	QF
2.25	Contracted	QF
2.25	Contracted	QF
0.09	Online	QF
10.00	Contracted	QF
10.00	Contracted	QF
10.00	Online	QF
1.60	Online	QF
2.00	Contracted	QF
2.00	Contracted	QF
2.50	Contracted	QF
10.00	Contracted	QF

10.00	Contracted	QF
10.00	Contracted	QF
10.00	Contracted	QF
2.40	Contracted	QF
4.00	Contracted	QF
2.00	Contracted	QF
2.00	Contracted	QF
2.00	Contracted	QF
2.00	Contracted	QF
2.00	Contracted	QF
2.00	Contracted	QF
3.00	Contracted	QF
2.79	Contracted	QF
2.97	Contracted	QF
2.16	Contracted	QF
2.97	Contracted	QF
2.57	Contracted	QF
3.00	Contracted	QF
2.97	Contracted	QF
3.00	Contracted	QF
3.00	Contracted	QF
3.00	Contracted	QF
3.00	Contracted	QF
2.97	Contracted	QF
1.26	Contracted	QF
0.99	Contracted	QF
1.26	Contracted	QF
2.97	Contracted	QF
2.97	Contracted	QF
2.97	Contracted	QF
1.26	Contracted	QF
1.80	Contracted	QF
2.16	Contracted	QF
2.57	Contracted	QF
2.57	Contracted	QF
10.00	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
2.20	Contracted	QF
1.85	Contracted	QF
2.00	Contracted	QF
2.50	Contracted	QF
2.50	Contracted	QF
2.00	Contracted	QF
1.75	Contracted	QF

2.00	Contracted	QF
2.25	Contracted	QF
0.11	Online	QF
0.20	Online	QF
2.20	Proposed	QF
2.97	Proposed	QF
1.98	Proposed	QF
2.57	Proposed	QF
2.97	Proposed	QF
2.97	Proposed	QF
10.00	Proposed	QF
1.98	Proposed	QF
2.00	Proposed	QF
2.50	Proposed	QF
1.80	Proposed	QF
2.97	Proposed	QF
2.97	Proposed	QF
2.97	Proposed	QF
2.97	Proposed	QF
2.97	Proposed	QF
2.97	Proposed	QF
2.97	Proposed	QF
1.98	Proposed	QF
2.97	Proposed	QF
2.97	Proposed	QF
1.26	Proposed	QF
1.80	Proposed	QF
2.97	Proposed	QF
1.26	Proposed	QF
	Proposed	QF
2.20	Proposed	QF
2.20	Proposed	QF
19.99	Proposed	QF
19.99	Proposed	QF
19.99	Proposed	QF
19.99	Proposed	QF
2.20	Proposed	QF
2.20	Proposed	QF
2.25	Proposed	QF
2.20	Proposed	QF
68.48	Online	UO
0.09	Online	UO
0.24	Online	UO
0.24	Online	UO
0.44	Online	UO
0.32	Online	UO

Utility	On/Off System	Contract Execution Date	Proposed Online Date
PGE	On	11/2/2010	
PGE	Off	1/25/2016	12/30/2018
PGE	On	1/25/2016	1/31/2019
PGE	On	5/2/2016	8/31/2018
PGE	On	6/10/2016	3/24/2019
PGE	On	6/21/2016	8/14/2019
PGE	On	6/21/2016	6/30/2018
PGE	On	6/21/2016	6/30/2018
PGE	On	6/22/2016	6/30/2018
PGE	On	12/1/2016	8/31/2018
PGE	On	11/10/2016	7/14/2019
PGE	On	5/10/2017	6/30/2018
PGE	On	1/29/2018	1/31/2020
PGE	On	4/19/2018	12/1/2019
PGE	On	4/19/2018	12/1/2019
PGE	On	11/29/2018	12/31/2020
PGE	On	11/29/2018	12/31/2020
PGE	On	11/29/2018	12/1/2020
PGE	On	4/19/2018	10/31/2019
PGE	On	5/8/2018	12/1/2019
PGE	On	6/4/2018	2/1/2020
PGE	On	6/4/2018	12/1/2019
PGE	On	6/4/2018	12/1/2019
PGE	On	8/31/2018	11/1/2020
PGE	On	6/19/2018	10/1/2019
PGE	On	3/1/2017	12/31/2019
PGE	On	6/4/2018	9/30/2019
PGE	On	6/4/2018	9/30/2019
PGE	On	4/5/2013	
PGE	Off	6/21/2016	6/1/2019
PGE	Off	6/21/2016	6/1/2019
PGE	Off	5/31/2017	
PGE	Off	12/9/2011	
PGE	On	6/4/2018	12/1/2019
PGE	On	6/28/2018	12/1/2019
PGE	On	6/4/2018	12/1/2019
PGE	On	12/27/2017	10/31/2020

PGE	On	12/27/2017	10/31/2020
PGE	On	12/27/2017	10/31/2020
PGE	On	2/7/2018	12/31/2020
PGE	On	2/14/2014	
PGE	On	6/10/2016	3/31/2018
PGE	On	5/31/2017	4/30/2018
PGE	On	8/23/2017	3/31/2018
PGE	On	10/18/2017	12/31/2017
PGE	Off	1/25/2016	1/25/2019
PGE	Off	1/25/2016	1/25/2019
PGE	On	1/25/2016	1/25/2019
PGE	Off	1/25/2016	1/25/2019
PGE	Off	4/27/2016	4/27/2019
PGE	Off	4/27/2016	4/27/2019
PGE	Off	6/27/2016	6/27/2019
PGE	Off	6/26/2016	6/26/2019
PGE	Off	6/27/2016	6/27/2019
PGE	Off	6/26/2016	6/26/2019
PGE	On	2/19/2014	
PGE	Off	9/11/2013	4/1/2018
PGE	Off	4/29/2015	11/30/2017
PGE	Off	7/15/2015	5/1/2018
PGE	Off	6/21/2016	6/1/2020
PGE	Off	11/4/2016	6/30/2019
PGE	Off	6/15/2017	6/30/2019
PGE	On	1/25/2016	12/31/2019
PGE	On	5/20/2016	12/31/2019
PGE	On	5/20/2016	12/31/2019
PGE	On	5/20/2016	12/31/2019
PGE	On	5/20/2016	12/31/2019
PGE	On	5/20/2016	12/31/2019
PGE	On	5/20/2016	12/31/2019
PGE	Off	4/29/2010	
PGE	On	7/28/2015	
PGE	On	7/28/2015	
PGE	On	7/28/2015	12/31/2017
PGE	On	7/28/2015	
PGE	On	7/28/2015	
PGE	On	7/28/2015	
PGE	On	7/28/2015	
PGE	On	1/25/2016	
PGE	On	1/25/2016	
PGE	Off	7/2/2012	
PGE	Off	7/20/2016	7/20/2019
PGE	Off	7/20/2016	7/20/2019

