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REPORT NAME: UM 1514 Automated Demand Response - Interim Report

COMPANY NAME: Portland General Electric

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION?

If yes, please submit only the cover letter electronically. Submit confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

If known, please select designation:	$\square RE (Electric) \square RG (Gas) \square RW (Water) \square RO (Other)$							
Report is required by: OAR	Enter rule number							
Statute	Enter Statute							
Order	Enter PUC Order No.							
⊠Other	in agreement with Juliet Johnson							
Is this report associated with a specific docket/case?								

If yes, enter docket number: UM 1514

List applicable Key Words for this report to facilitate electronic search: Automated Demand Response

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- Annual Fee Statement form and payment remittance or
- OUS or RSPF Surcharge form or surcharge remittance or
- Any other Telecommunications Reporting or
- Any daily safety or safety incident reports or
- Accident reports required by ORS 654.715

Please file the above reports according to their individual instructions.

PUC FM050 (Rev. 6/29/12) PGE - 11/12/13



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

November 12, 2013

Juliet Johnson Sr. Utility Analyst Electric and Natural Gas Division Oregon Public Utility Commission PO Box 1088 Salem, Oregon 97308-1088

Re: UM 1514 Automated Demand Response - Interim Report

Juliet:

In accordance with the timeline PGE established for its Automated Demand Response pilot (ADR or Energy Partner), attached is our interim report for the summer 2013 operating season. PGE's primary goal for the season was to follow up its expedited Request for Proposals and regulatory processes by having at least one customer enabled on the program. Highlights of ADR's first operating season include:

- PGE successfully contracted and enabled two customers on the program.
- PGE called three events during the season in August and September with curtailment in excess of the contracted amount during each event.

Looking forward to the winter 2014 operating season, PGE's goal is to have 3,000 kW enabled on the program. To date, we have contracted 3,600 kW for the season. Although these are still subject to acceptance testing and equipment installation, PGE appears to be on track to achieve that goal as well.

If you have any questions, please call me at (503) 464-7580, or Alex Tooman at (503) 464-7623.

Sincerely,

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Patrick G. Hager Manager, Regulatory Affairs

PGH:kr encl.

cc: Isaiah Cox, PGE Heidi Hartson, PGE

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Demand Response Curtailment Log

nergy Partner ^{s™} Event History							UE 1514 PGE Automated Demand Respon Interim Repo Page																
Type	Event ID	Date	Start Time	Duration (hrs)	Peak Load Forecast c (Day Before or Friday for Monday)	Ranking of Loa Forecast as compared to Yea Forecasted Loa Peaks	arly	Outdoor Temp (F) Actuals	Temp Forecast (F) Day Before	Forecasted Frequency Compared to 10 Year Monthly Averages	Wind Forecast	Weather	Regional Weather Forecast	Mid-C Price Forecast	Actual Mid-C Price (Hourly)	Driver for Event	Strategy	# of Participant	Summary of real time transactions during event	MW Achieved	MW Contracted	Notifications / Messaging Conducted	Notes
ergy Partner	8/6/2013	8/6/2013	4:00:00 PM	2	HE18 3061	301	HE17 2998 HE18 3040		High of 88 per Accuweather		Strong wind- no driver	Clear and Sunny	Regional Weather - Mildly hot	Traded at a high average of \$45 on	HE17 \$44.62	warm weather and an elevated load forecast	100% Control		50MWH purchased	400 kW	250 kW	PGE called through the dispatch.	Albertsons performance, although manual (not automated) was above target (target 200, achieved 350-375). OMSI may require some work with EnerNOC to meet targeted goals consistently. Their reduction was automated but coaching was still needed when their load took a sharp step up mid-event. EnerNOC called and helped them make some of their commitment, although not all. They are above the 50% threshold ENOC holds for paving so they
argy Partner	8/21/2013	8/21/2013	3:00:00 PM	3	HE18 3060	303	HE16 2724 HE17 2819 HE18 2860		High of 90 per Accuweather and Weather Underground		Very Light Wind - Strong Drvier	Mostly Sunny	Regional Weather - Mildly hot	Traded at a high average of \$48 the day before per ICE		This event is for the purposes of the pilot (testing, evaluation, etc.) and simulates a future demand response need because we're experiencing warm temperature, significant load, high market prices and very little wind in the afternoon.			2 (580 MWH Sold	295 kW	250 kW	PGE called through the dispatch GU at 9:30 AM. EnerNQC notified customers at approximately 2. The message was not very friendly to the ear.	OMSI was closer to meeting their targeted load reduction (80%). Albertsons didn't overperform to such an extent this time.
ergy Partner	9/11/2013	9/11/2013	4:00:00 PM	3	HE 18 3300	43	HE17 3298 HE18 3263 HE19 3214		High of 96 per Tableau Report	Hasn't happened in Sept. in the last 10 years.	Very Light Wind - Strong Drvier	Clear and Sunny	Regional Weather - Hot	Prices that morning at \$50.45 per Tableau Report	1400 \$43.08 1500 \$43.73 1600 \$43.82	forecasts lead us to believe it would be a peaking day	100% Control		735 MWH purchased 2 16 MWH sold	380	250 kW	PGE called through the dispatch GU at 1:30 PM. EnerNOC notified customers at approximately 2.	
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1847 1684	6-Aug-13 6-Aug-13
1579	6-Aug-13
1556	6-Aug-13
1596	6-Aug-13
1710	7-Aug-13
1823	6-Aug-13
2032	6-Aug-13
2204	6-Aug-13
2306	6-Aug-13
2419	6-Aug-13
2525	6-Aug-13
2651	6-Aug-13
2760	6-Aug-13
2872	6-Aug-13
2927	6-Aug-13
2998	6-Aug-13
3040	6-Aug-13
3005	6-Aug-13
2909	7-Aug-13
2836	6-Aug-13
2729	6-Aug-13
2477	6-Aug-13
2171	8-Aug-13
	1684 1579 1556 1596 1710 1823 2032 2204 2306 2419 2525 2651 2760 2872 2927 2998 3040 3005 2909 2836 2729 2477

HE01 HE02	1746 1626	21-Aug-13 21-Aug-13
HE03	1556	21-Aug-13
HE04	1524	21-Aug-13
HE05	1571	21-Aug-13
HE06	1698	21-Aug-13
HE07	1840	21-Aug-13
HE08	2004	21-Aug-13
HE09	2114	21-Aug-13
HE10	2228	21-Aug-13
HE11	2332	21-Aug-13
HE12	2390	21-Aug-13
HE13	2453	22-Aug-13
HE14	2535	21-Aug-13
HE15	2619	21-Aug-13
HE16	2724	21-Aug-13
HE17	2819	21-Aug-13
HE18	2860	21-Aug-13
HE19	2821	21-Aug-13
HE20	2727	21-Aug-13
HE21	2711	21-Aug-13
HE22	2568	21-Aug-13
HE23	2343	21-Aug-13
HE24	2057	22-Aug-13

	4004	11.0 10
HE01	1881	11-Sep-13
HE02	1752	11-Sep-13
HE03	1668	11-Sep-13
HE04	1637	11-Sep-13
HE05	1668	11-Sep-13
HE06	1822	11-Sep-13
HE07	2065	11-Sep-13
HE08	2206	11-Sep-13
HE09	2303	11-Sep-13
HE10	2397	11-Sep-13
HE11	2499	11-Sep-13
HE12	2687	11-Sep-13
HE13	2865	11-Sep-13
HE14	3012	11-Sep-13
HE15	3135	11-Sep-13
HE16	3219	11-Sep-13
HE17	3298	11-Sep-13
HE18	3284	11-Sep-13
HE19	3214	11-Sep-13
HE20	3130	11-Sep-13
HE21	3106	11-Sep-13
HE22	2850	11-Sep-13
HE23	2502	11-Sep-13
HE24	2165	12-Sep-13