

RE 112 e-FILING REPORT COVER SHEET

REPORT NAME:

PGE's Major Storm/Event Exclusion for Period March 15, 2015

COMPANY NAME:

Portland General Electric

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION?

No

If known, please select designation:

RE (Electric)

Report is required by:

OAR 860-023-0161

Is this report associated with a specific docket/case?

No

Key words:

PGE's Major Storm/Event Exclusion for Period March 15, 2015

If known, please select the PUC Section to which the report should be directed:

Electric Rates and Planning



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

April 21, 2015

Oregon Public Utility Commission  
3930 SW Fairview Industrial Drive SE  
P.O. Box 1088  
Salem OR 97308-1088

Attn: OPUC Filing Center

RE: Major Storm/Event Exclusion  
Period: March 15, 2015

Portland General Electric (PGE) hereby submits this report in compliance with OAR 860-023-0161 which requires the electric company to file a report with the Commission within 30 business days after the conclusion of an event. This report provides a summary of the major storm event that occurred on March 15, 2015 for which the CAIDI for all of PGE reliability reporting areas exceeded 5 hours.

OAR 860-023-0161: Major Event Filing by Electric Companies

**1. Description of the major event, the interruption causes, and factors that impacted restoration of service.**

On March 15, 2015, PGE's entire service territory experienced a windstorm with wind gusts in excess of 63 mph. The heavy wind caused tree limbs to break and trees to topple, some of which fell into power lines and caused the outages. The extensive damage was a primary factor that impacted PGE's efforts to restore service.

The affected areas were in the Central, Eastern, Southern and Western regions of PGE's service territory. The Portland area experienced wind gusts of 63 mph. Troutdale experienced wind gusts of 49 mph. Salem experienced wind gusts of 58 mph and Hillsboro experienced wind gusts of 54 mph.

**2. The Reliability reporting area and geographic area impacted.**

PGE's entire service territory was impacted by the windstorm and the resulting outages.

**3. The total number of customers affected and the number of customers without service at periodic intervals.**

At the peak of the storm, PGE had approximately 63,973 customers without power. During the storm, a total of 79,769 customers were affected.

**4. The calculated SAIDI, SAIFI, and CAIDI impacts (i.e., "Event SAIDI<sup>1</sup>, SAIFI<sup>2</sup>, CAIDI<sup>3</sup> and T<sub>med</sub><sup>4</sup>") associated with the Major Event to on a reliability reporting area and a system-wide basis.**

The following table represents the calculated impacts for SAIDI, SAIFI, CAIDI, T<sub>med</sub>, and system-wide basis totals:

	RELIABILITY REPORTING AREAS				SYSTEM-WIDE BASIS
	CENTRAL	EASTERN	SOUTHERN	WESTERN	PGE SERVICE TERRITORY
<i>SAIDI</i>	9.84	6.98	8.82	2.76	28.4
<i>SAIFI</i>	0.03	0.03	0.02	0.01	0.09
<i>CAIDI</i>	365.04	277.60	456.24	233.63	319
<i>Customers out at peak</i>	22,182	21,441	12,701	7,459	63,973
<i>T<sub>med</sub></i>					3.80

<sup>1</sup> SAIDI - System Average Interruption Duration Index  
<sup>2</sup> SAIFI - System Average Interruption Frequency Index  
<sup>3</sup> CAIDI - Customer Average Interruption Duration Index  
<sup>4</sup> T<sub>med</sub> - A major event day identification threshold value

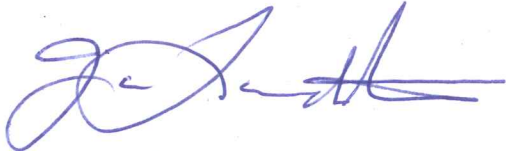
**Additional Reporting Related to the March 15<sup>th</sup> Storm Event:**

Attachment A provides a summary of outages within PGE's service territory lasting 5 hours or longer.

Attachment B provides newspaper and media coverage of the storm event.

For questions regarding this filing, please contact Terri Bowman at (503) 464-8854. Please direct all formal correspondence and requests to the following email address [pge.opuc.filings@pqn.com](mailto:pge.opuc.filings@pqn.com)

Sincerely,



James Landstrom,  
Manager, Transmission and Distribution Asset Management

Enclosures

Major Storm/Event Exclusion Period: March 15, 2015  
Attachment A

Summary of Outages 5 Hours and Longer for  
the Entire PGE Service Territory  
Provided in Electronic Format Only









Attachment A Summary  
of Outages 5 Hours and Longer PGE  
Service Territory March 15, 2015

Outage #	Device Open	Outage Date	Outage Time	Feeder Name	Cust Affected	Duration	Return Date	Return Time	Interrupt Location	Cause Code	Dispatch Region	Feeder Region	SAIDI	SAIFI	CAIDI
2478096	04 Line Fuse Open	3/15/2015	2:16 PM	CEDAR HILLS-SHO	27	328	3/15/2015	7:44 PM	C11-03B/0 402	Weather-High Winds	W	W	0.010226	3.12E-05	328
2478694	03 Line Recloser Open	3/15/2015	2:26 PM	MOLALLA-YODER (6466033)	916	406	3/15/2015	9:12 PM	000000267703	Tree-Broken Limb/Top	S	S	0.309187	0.000952	324.8
2475365	02 Feeder Breaker Open	3/15/2015	1:01 PM	BETHEL-MACLEAY (2151013)	1866	322	3/15/2015	6:23 PM	2151013FB703	Tree-Broken Limb/Top	S	S	0.693801	0.002155	322
2478951	04 Line Fuse Open	3/15/2015	2:29 PM	HILLSBORO-LAURE	89	393	3/15/2015	9:02 PM	C12-31B/0 402	Weather-High Winds	W	W	0.029079	9.25E-05	314.4
2478378	05 Transformer Fuse Open	3/15/2015	2:21 PM	CEDAR HILLS-LEA	2	309	3/15/2015	7:30 PM	40755/002402	Weather-High Winds	W	W	0.000714	2.31E-06	309
2475955	04 Line Fuse Open	3/15/2015	1:19 PM	SYLVAN-BARNES (1685013)	21	304	3/15/2015	6:23 PM	D11-06C/0 104	Cutout/Fuse/Arrestor Failure	W	E	0.007372	2.42E-05	304
2477462	04 Line Fuse Open	3/15/2015	1:58 PM	OSWEGO-MARY-HUR	66	380	3/15/2015	8:18 PM	D21-10A/0 402	Weather-High Winds	W	W	0.020851	6.86E-05	304
2475260	04 Line Fuse Open	3/15/2015	12:53 PM	SPRINGBROOK-FER	81	376	3/15/2015	7:09 PM	C32-23B/0 402	Weather-High Winds	S	S	0.025321	8.42E-05	300.8
2492392	04 Line Fuse Open	3/15/2015	6:03 PM	BORING-TELFORD (5177013)	255	375	3/16/2015	12:18 AM	D13-36B/0 402	Weather-High Winds	E	E	0.079501	0.000265	300
2494786	05 Transformer Fuse Open	3/15/2015	8:04 PM	HILLSBORO-LAURE	1	300	3/16/2015	1:04 AM	69735/002402	Weather-High Winds	W	W	0.000346	1.15E-06	300

Major Storm/Event Exclusion Period: March 15, 2015  
Attachment B

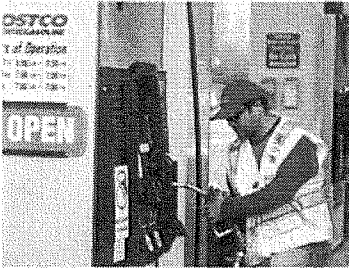
Newspaper and Media Releases  
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# High winds slam Salem area

**a** Caoj Lynn, Statesman

Journal

5:43 a.m. PDT / Arch 16, 2015



(Photo: BRENT DRINKUT / Statesman Journal)

## Update at 5:40 a.m.

PGE now reports 1046 customers are without power this morning in Marion County. Crews worked through the night to restore power in impacted areas. The company did not have an estimated time when service would be restored to the remaining areas.

High winds, including a gust of 58 mph recorded at Salem Municipal Airport, knocked out power for more than 9,000 PGE customers Sunday in Marion and Polk counties.

Traffic lights were out at major intersections in Salem, including Mission Street SE and Hawthorne Avenue SE near Costco.

Store officials had to close the warehouse doors after the power went out at around 2:10 p.m., with an estimated 250 customers inside.

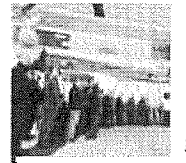
"We got everybody in the building checked out," said Chuck Madden, assistant general manager.

The warehouse has about about 60 minutes of backup battery power for register use and emergency lighting only, Madden said. Costco was able to continue to sell gas because the pumps are connected to power on the south side of Mission Street.



STATESMAN JOURNAL  
Power outage caused by dam at construction site

([http://www .statesmanjournal .com/story/news/local/2015/03/15/power-outage-construction-commercial-street/24815475/](http://www.statesmanjournal.com/story/news/local/2015/03/15/power-outage-construction-commercial-street/24815475/))



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The 58 mph gust at the airport, recorded at 12:56 p.m., was the highest in the Willamette Valley, according to the National Weather Service in Portland. Later in the afternoon, a gust of 58 mph also was recorded at Portland International Airport.

curb-  
vacation-  
rentals/708422

The high winds were caused by low pressure to the northwest and high pressure to the south and southeast, meteorologist Amanda Bowen said.

"It really creates a squeeze in the valley," Bowen said.



STATESMAN JOURNAL

Cleanup continues after powerful Sunday wind & rain storm

(<http://www.statesmanjournal.com/story/news/local/2015/03/15/rain-wind-storm-damage/24816511/>)

*clynn@StatesmanJournal.com, (503) 399-6710, or follow on Twitter @CapiLynn and Facebook @CapiLynnSJ.*

Read or Share this story: <http://stjr.r/1MDzp3a>

5 Fun Things To Do This Weekend: April 3rd-5th—5 Fun Things To Do This Weekend: April...



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## High Winds Result in Power Outages, Falling Trees & Falling Scaffolding

Sunday, March 15, 2015  
Byron Beck, GoLocalPDX Features Editor

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Portland Police and Portland Fire & Rescue have responded to several reports of large trees down, blocking roads throughout the City of Portland.

Earlier in the afternoon, scaffolding on a building project located at Southwest Fourth and Washington came crashing down on the street, hitting at least one vehicle.

Outside of downtown, Southeast Cesar E. Chavez Boulevard is currently closed between East Burnside and Northeast Glisan Street after a large tree fell and blocked all lanes. It is expected to be closed for several hours. Calls of trees down that are blocking roadways or otherwise are creating an emergency situation should be reported to 9-1-1. Minor incidents not threatening life or property should be reported to the Non-Emergency Line at (503) 823-3333.

Crews are working across PGE's service area to restore power from today's wind storm. As of 5:15 p.m., approximately 68,000 customers are without power. PGE reminds customers to stay away from all downed power lines and report them and other power outages either online at [PortlandGeneral.com](http://PortlandGeneral.com) via a web-enabled smart phone, or by calling 503-464-7777 or 800-544-1795.



Scaffolding on a building project located at Southwest Fourth and Washington came crashing down on the street, hitting at least one vehicle. Photo by Byron Beck

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2	Why Portland's Urban Pioneers are Moving to Detroit		
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Portland

# Storm causes havoc in region

Created on Sunday, 15 March 2014 4:32 | Written by [Jim Kiedel](#) | 11

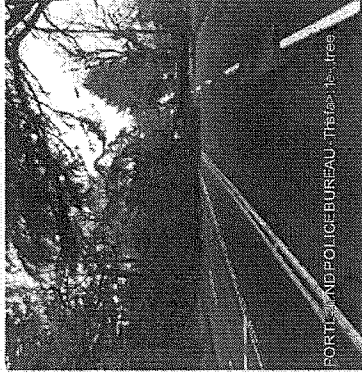
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0 Comments

MAX disrupted... roads blocked, power out everywhere

Sunday's wind storm is causing travel and other problems throughout the region.

TriMet says MAX trains were delayed when a commercial power line that came down on the tracks near the Millith Way MAX Station in Beaverton. Trains turned back at Washington Park Station to prevent congestion at the Beaverton Transit Center. And a power issue caused MAX problems near the Clackamas Town Center.



PGE had said it would be... East side of Street.

Falling trees also blocked streets and knocked out power. Closed streets include portions of Southeast Jensen Road and Cesar Chavez Boulevard. At one point, more than 63,000 Portland General Electric customers are without power, according to the company's website, with the largest number in Clackamas County at nearly 26,000.

Heavy rains also caused sewage to overflow into the Willamette River and out of two manholes in the Oak Lodge area of Clackamas County.

In addition, the National Weather Service has issued a flood advisory for streams in Multnomah, Clackamas, Washington, Yamhill, Marion, Polk, Hood River, Clatsop, Tillamook and Columbia counties in Oregon. In Washington, the advisory is issued for Clark, Cowlitz, Pacific, Skamania and Wahkiakum counties.

For up to date information on TriMet disruptions, visit [trimet.com/alerts](#).

For PGE outage updates, visit [www.pge.com](#) or call 1-800-451-7777.

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## Windstorm causes damage

*NEWSCASTER: Our top story: A strong windstorm has caused significant damage and power outages this afternoon.*

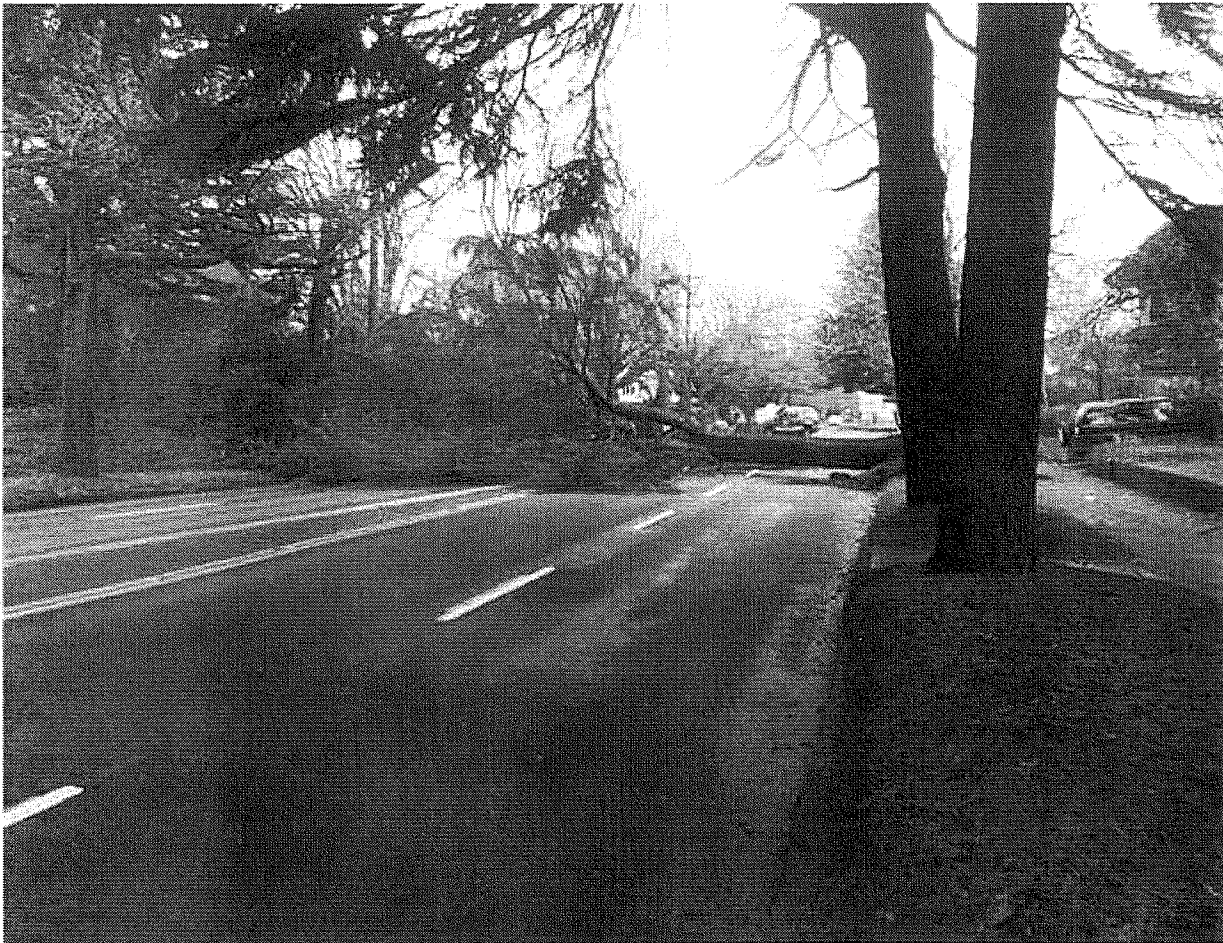
*REPORTER: Winds gusting to 55 miles-an-hour caused significant damage throughout the area. At Southwest Fourth and Alder, scaffolding five stories high crashed to the ground. No one was hurt, but a car was damaged. In the Park Blocks, a huge tree fell onto a car, trapping a woman inside. James Rutter tells KATU News he saw it happen.*

*JAMES RUTTER, WITNESS: And I heard just a snap, snap, snap. And I looked over into the park and I saw the tree start to fall and then I saw the red car come and they just met.*

*REPORTER: The woman was hospitalized in critical condition. Southeast Cesar Chavez Boulevard was closed between Burnside and Glisan when a large tree fell across the road. Portland General Electric had more than 65,000 customers without power at the peak of the storm. Brad Ford, News Radio 1190 KEX.*

## More than 7,000 residents in Clackamas, Multnomah, Marion counties without power,

A tree fell across Northeast Cesar Chavez Boulevard around 1:20 p.m. Sunday during severe windstorms. The tree blocked traffic between Northeast Couch and Glisan and hit a power line that disabled traffic lights for blocks in each direction. (*Molly Harbarger/The Oregonian*)



on March 16, 2015 at 8:57 AM, updated March 16, 2015 at 9:21 AM



More than 3,500 residents of Clackamas County are still in the dark after Sunday's windstorms -- the biggest outage remaining Monday morning in the Portland metro area.

Severe winds knocked down trees and power lines Sunday

(<http://www.oregonlive.com/weather/index.ssf/2015/03/trees-down-power-out-as-high-throughout-oregon>. At one point, more than 51,000 Portland General Electric customers lost power

(<http://www.oregonlive.com/portland/index.ssf/2015/03/pge-reports-power-outages-for-h>. Crews worked overnight to restore power, bringing down the number dramatically.

About 7,000 PGE customers

(<https://www.portlandgeneral.com/safety-outages/outages/outage-updates/outage-list.asp>); are still without power. About 15 Northeast Portland residents who use Pacific Power are also without power -- down from 3,392.

The remaining PGE outages are mostly in Oregon City and Milwaukie. Mark Fryburg, PGE spokesman, said there is no timeframe on when power will be restored.

- About 1,000 PGE customers in Marion County are without power.
- Slightly more than 700 PGE customers in Multnomah County have no power.
- About 140 people in Washington County are without PGE power.
- 15 Northeast Portland residents in the 97220 zip code

(<https://www.google.com/maps/place/Portland,+OR+97220/@45.5564775,-122.5544874,14z/data=!4m2!3m1!>

[1sox5495a37c17d59753\\_ox89abe6eff67c88eo](https://www.pacificpower.net/ed/po/ooi.html)) are waiting on Pacific Power (<https://www.pacificpower.net/ed/po/ooi.html>) to restore electricity.

-- Molly Harbarger

[mharbarger@oregonian.com](mailto:mharbarger@oregonian.com) (<mailto:mharbarger@oregonian.com>)

503-294-5923

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