



# ENERGY ASSURANCE DAILY

Thursday Evening, March 24, 2016

## *Major Development*

### **Update: Winter Storm Knocks Out Power to Nearly 503,000 Customers from Colorado to Ontario March 23–24**

A severe winter storm, which began impacting Colorado early on Wednesday morning, moved northeastward overnight across parts of the U.S. Midwest and into Ontario, Canada, knocking out power to at least 502,776 customers. As of 3:30 p.m. EDT Thursday, 77,600 customers remained without power. Xcel Energy, which on Thursday afternoon updated its total number of affected customers to 305,174, said it had restored power to 93 percent of those customers and expects to reach 98 percent by Thursday night. Complete restoration is anticipated on Friday and the utility said by Thursday evening it will have 825 – 850 team members working in the field, many of whom were sent from Black Hills Energy, OG&E, and Xcel Energy Texas as well as New Mexico. Hydro One said its crews were responding to 146 incidents affecting approximately 15,000 customers in Ontario. Consumers Energy in Wisconsin said that its crews were working through the weather to restore its customers and repair at least 175 reports of downed power lines. The table below shows total affected customers and the latest reported outages by utility. The “Affected” column shows the total count of customers that lost power at one point or another over the course of the storm for each utility. These outages may not have occurred concurrently and are not the same as peak outages.

<b>Central U.S. and Canadian Customer Power Outages</b>			
March 23–24, 2016			
<b>Electric Utility</b>	<b>State/Province</b>	<b>Affected</b>	<b>Latest Reported</b>
Xcel Energy	CO	305,174	18,722
United Power	CO	32,000	1,000
Poudre Valley REA	CO	22,182	6,107
Colorado Springs Utilities	CO	6,957	1
MidAmerican Energy	IA	6,000	92
Alliant Energy	IA	4,166	68
Commonwealth Edison	IL	1,824	599
Indiana and Michigan Power	IN	7,472	7,472
Kansas City Power and Light	KS	9,000	1
Consumers Energy	MI	21,000	15,240
Great Lakes Energy	MI	3,651	1,438
DTE	MI	3,000	2,500
NYSEG	NY	2,780	1
FirstEnergy	OH	3,291	155
AEP	OH	1,054	1,050
We Energies	WI	9,225	7,828
Alliant Energy	WI	1,000	35
Hydro One	Ontario	35,000	15,271
PowerStream	Ontario	28,000	20
<b>TOTAL*</b>		<b>502,776</b>	<b>77,600</b>

\*Total outages represent only electric utilities listed in this table.

Sources:

- <https://www.facebook.com/XcelEnergyCO/photos/a.186562419704.121935.108603389704/10154006332214705/?type=3&theater>
- [http://www.xcelenergy.com/Emergency\\_Notices/Colorado\\_power\\_outages](http://www.xcelenergy.com/Emergency_Notices/Colorado_power_outages)
- <https://twitter.com/XcelEnergyco>

[http://www.outagemap-xcelenergy.com/outagemap/?\\_ga=1.219521565.546892019.1455647825](http://www.outagemap-xcelenergy.com/outagemap/?_ga=1.219521565.546892019.1455647825)  
<http://www.unitedpower.com/news/>  
<http://ebill.pvrea.com/oms/outageMap>  
<http://www.pvrea.com/news-article?NewsID=71>  
<https://twitter.com/CSUtilities>  
<http://stormcenter3.csu.org.s3.amazonaws.com/default.html>  
[https://twitter.com/MidAm\\_EnergyCo](https://twitter.com/MidAm_EnergyCo)  
<https://www.midamericanenergy.com/OutageWatch/dsk.html>  
<http://outagemap.kcpl.com/external/default.html>  
<https://www.facebook.com/consumersenergymichigan>  
<https://www.consumersenergy.com/outagemap>  
<https://www.facebook.com/greatlakesenergy>  
<http://www.gtlakes.com/storm-central/>  
<http://www.nyseg.com/Outages/outageinformation.html>  
<https://www.nationalgridus.com/Upstate-NY-Home/Storms-Outages/>  
<https://www.aepohio.com/outages/outageMap.aspx>  
<http://outages.firstenergycorp.com/oh.html>  
<http://www.we-energies.com/outagemapext/>  
<http://www.alliantenergy.com/Customerservice/StormandOutageCenter/OutageSummary/>  
<http://www.hydroone.com/StormCenter3/>  
<http://www.arcgis.com/apps/OnePane/basicviewer/index.html?appid=bde5d03a4b7d4097a59125a8b50117ac>  
<https://twitter.com/PowerStreamNews>  
<https://weather.com/storms/winter/news/winter-storm-selene-impacts>  
<http://www.thestar.com/news/gta/2016/03/24/icy-conditions-leave-thousands-in-the-dark-force-school-closures-and-flight-cancellations.html>  
<http://www.680news.com/2016/03/24/freezing-rain-arrives-schools-closed-parts-gta-power-restored-vaughan/>  
[http://www.denverpost.com/news/ci\\_29674905/xcel-energy-power-outages-affecting-55-000-customers](http://www.denverpost.com/news/ci_29674905/xcel-energy-power-outages-affecting-55-000-customers)  
<http://www.cbs58.com/story/31555995/over-3000-without-power-including-milwaukees-third-ward>  
<http://fox6now.com/2016/03/24/latest-thousands-of-we-energies-customers-without-power-possibly-due-to-weather/>  
<http://www.detroitnews.com/story/news/local/michigan/2016/03/24/spring-storm-wintery-mix-snow-ice/82203056/>  
[http://www.mlive.com/news/ann-arbor/index.ssf/2016/03/2500\\_people\\_without\\_power\\_in\\_a.html](http://www.mlive.com/news/ann-arbor/index.ssf/2016/03/2500_people_without_power_in_a.html)

## Electricity

### Storms, High Winds Knock Out Power to Over 30,000 Customers in Louisiana, Texas March 23–24

Strong storms producing rain, gusty winds, and hail knocked out power to at least 30,044 customers in Louisiana and Texas Wednesday night into Thursday. Upshur Rural Electric, the hardest hit utility with 10,000 customer outages in Texas, reported numerous downed power lines and poles. As of 3:30 p.m. EDT Thursday, 6,515 customers remained without power. The table below shows total affected customers and the latest reported outages by utility. The “Affected” column shows the total count of customers that lost power at one point or another over the course of the storm for each utility. These outages may not have occurred concurrently and are not the same as peak outages.

Louisiana, Texas Customer Power Outages			
March 23–24, 2016			
Electric Utility	State	Affected	Latest Reported
Beauregard Electric Coop Inc	LA	3,224	70
Entergy	LA	2,515	297
SWEPCO	LA	2,094	659
Upshur Rural Electric	TX	10,000	2,754
CenterPoint Energy	TX	4,591	1,419
Entergy	TX	2,443	44
Austin Energy	TX	2,200	86
Oncor	TX	1,677	614
AEP	TX	1,300	572
<b>TOTAL*</b>		<b>30,044</b>	<b>6,515</b>

\*Total outages represent only electric utilities listed in this table.

Sources:

<http://www.becioutage.org/>  
[http://www.etrviewoutage.com/external/la.aspx?\\_ga=1.19617976.1497457220.1456345079](http://www.etrviewoutage.com/external/la.aspx?_ga=1.19617976.1497457220.1456345079)  
<https://www.swepco.com/outages/outageMap.aspx>  
<https://ebill.urecc.coop/mapviewer/mapviewer.html?config=Outage+Web+Map>  
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<http://stormcenter.oncor.com/external/default.html>  
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<http://gis.centerpointenergy.com/outagetracker/index.html>  
<https://www.aeptexas.com/outages/outageMap.aspx>  
<http://www.newswest9.com/story/31555161/thousands-without-power-in-east-texas>  
<http://www.statesman.com/news/weather/200-austin-energy-users-without-power-flashing-sig/nqrYP/>

## ***Petroleum***

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### **Magellan Midstream Shuts Pipeline Segment Due to Gasoline Leak in North Dakota**

**March 24**

Magellan Midstream Partners shut down a segment of pipeline between Fargo and Grand Forks, North Dakota due to a pinhole leak that spilled 4,200 gallons of gasoline and prompted the precautionary evacuation of one home. A Magellan spokesman said contaminated soil was being removed and air quality was being monitored. It was not known how long repairs will take.

Reuters, 13:16 March 24, 2016

### **HollyFrontier Reports Emissions from Its 70,300 b/d Tulsa East, Oklahoma Refinery**

**March 18, 21**

HollyFrontier Corporation reported excess carbon monoxide from the fluid catalytic cracking unit (FCCU) on March 18 at its Tulsa East, Oklahoma refinery and excess hydrogen sulfide emissions on March 21, according to a filing with the Oklahoma Department of Environmental Quality.

Reuters, 14:47 March 24, 2016

### **CVR Energy Reports Emissions at Its 70,000 b/d Wynnewood, Oklahoma Refinery March 20**

CVR Energy Inc reported excess emissions due to an equipment malfunction from the No. 2 charge heater on March 20, according to a filing with the Oklahoma Department of Environmental Quality.

Reuters, 14:53 March 24, 2016

### **Shell Reports Small Flange Fire in Process Unit Extinguished at Its Deer Park, Texas Complex March 24**

Royal Dutch Shell Plc reported a small flange fire in a process unit at its Deer Park, Texas complex was extinguished, according to a community information phone line. No injuries were reported and an onsite emergency response team was handling the incident. The company operates a 316,600 b/d refinery and a chemical facility at its Deer Park complex and it was not immediately clear if the incident occurred at the oil refinery or the chemical plant.

Reuters, 14:55 March 24, 2016

### **Total Reports DCU Shutdown, Restart at Its 225,500 b/d Port Arthur, Texas Refinery March 23**

Total SA reported unit 890, a 60,000 b/d delayed coking unit (DCU), shut down twice and was restarted at its Port Arthur refinery, according to a filing with the Texas Commission on Environmental Quality. Unspecified unit 855 was significantly reduced and flaring was reported due to low purity recycle hydrogen.

Reuters, 18:43 March 23, 2016

### **Sinclair Oil Reports Minor Fire Extinguished at Its 85,000 b/d Sinclair, Wyoming Refinery March 22**

Sinclair Oil said a minor fire was extinguished at its refinery in Sinclair, Wyoming on Tuesday. The fire occurred from a flange at the top of a pressurized sphere storage tank in the tank farm area of the refinery, the company said on Thursday. No injuries were reported and the refinery was operating normally, the company added.

Reuters, 11:17 March 24, 2016

## **Chevron Reports Unit Upset, Flaring at Its 245,271 b/d Richmond, California Refinery March 22**

Chevron Corp reported a unit upset and flaring at its Richmond, California refinery on March 22, according to a filing with Contra Costa County Health Services. The company said the unit was stable.

Reuters, 12:25 March 24, 2016

## **Shell Reports Unit Startup at Its 156,400 b/d Martinez, California Refinery March 24**

Royal Dutch Shell reported a unit startup at its Martinez, California refinery, according to a filing with Contra Costa County Health Services.

Reuters, 12:23 March 24, 2016

## **Rangeland Energy Plans Refined Products, LPG Rail Terminal in Texas to Supply Mexico**

Rangeland Energy is planning to build a rail and truck terminal in Corpus Christi, Texas to handle refined products and liquefied petroleum gas bound for Mexico. The company aims to start up the first phase of the terminal in the first quarter of 2017, which will initially receive hydrocarbons via mixed-freight trains also known as manifest trains. Unit trains, which carry a single commodity, could be accommodated later in the year. Rangeland said the terminal will primarily move products out by rail, but could later connect with pipelines. Future phases also could include addition of marine facilities to accommodate vessels, as well as infrastructure to handle crude oil, condensate, and fuel oil.

<http://www.rangelandenergy.com/news/rangeland-energy-begins-development-south-texas-energy-products-system-steps>

## **GMR Progress, Puerto Rico Reach Settlement in 2007 Oil Spill March 22**

GMR Progress LLC on March 22 reached a settlement with the U.S. government and Puerto Rico resolving charges from a 2007 incident where an oil tanker discharged 45,000 gallons of oil near La Parguera beach, prompting officials to temporarily close nearby beaches. The company agreed to pay over \$2.7 million for restoration projects.

[http://www.wacotrib.com/us-puerto-rico-reaches-m-settlement-in-oilspill/article\\_6807b239-114a-5f44-973e-aac60d66f373.html](http://www.wacotrib.com/us-puerto-rico-reaches-m-settlement-in-oilspill/article_6807b239-114a-5f44-973e-aac60d66f373.html)

## ***Natural Gas***

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Nothing to report.

## ***Other News***

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Nothing to report.

## ***International News***

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### **Kuwait Discovers New Light Crude Oil Fields – State News Agency**

Kuwait made a new discovery of light crude in the western part of the country, which the Kuwait Oil Company said would consolidate its position as a main oil producer, state news agency KUNA said. According to the U.S. Energy Information Administration, Kuwait has an estimated 102 billion barrels of proven oil reserves. It currently produces 3 million b/d and aims to raise its production capacity to 4 million b/d by 2020. The state news agency did not specify the amount of recoverable resources in the newly discovered fields.

Reuters, 8:09 March 24, 2016

## Energy Prices

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U.S. Oil and Gas Prices			
March 24, 2016			
	Today	Week Ago	Year Ago
<b>CRUDE OIL</b> <b>West Texas Intermediate U.S.</b> \$/Barrel	38.09	40.12	46.79
<b>NATURAL GAS</b> <b>Henry Hub</b> \$/Million Btu	1.80	1.74	2.69

Source: Reuters

## Links

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***This Week in Petroleum*** from the U.S. Energy Information Administration (EIA)

<http://www.eia.gov/oog/info/twip/twip.asp>

Updated every Wednesday.

***Weekly Petroleum Status Report*** from EIA

[http://www.eia.gov/oil\\_gas/petroleum/data\\_publications/weekly\\_petroleum\\_status\\_report/wpsr.html](http://www.eia.gov/oil_gas/petroleum/data_publications/weekly_petroleum_status_report/wpsr.html)

Updated after 10:30 AM & 1:00 PM ET every Wednesday.

***Natural Gas Weekly Update*** from EIA

<http://www.eia.gov/oog/info/ngw/ngupdate.asp>

Updated after 2:00 PM ET every Thursday.

### ENERGY ASSURANCE DAILY

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<http://www.oe.netl.doe.gov/ead.aspx>

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