



# ENERGY ASSURANCE DAILY

Monday Evening, November 21, 2016

## Major Developments

### Power Restoration Work Continues after Storm Producing Snow, Rain Hits Midwest, Northeast November 18–21

Strong storms bringing heavy snow and rain moved across the Northeast knocking out power to at least 321,835 customers beginning Friday evening with affects lasting into Monday. Wind gusts of up to 50 mph were reported, bringing down trees and powerlines. Utilities across the region reported soft ground and heavy wet snow slowed power restoration efforts. As of 3:30 p.m. EST on Monday, 21,007 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.

Midwest and Northeast Customer Power Outages			
November 18–21, 2016			
Electric Utility	State	Affected	Latest Reported
Consumers Energy	MI	59,000	8
Wisconsin Public Service	MI/WI	12,500	39
DTE	MI	12,000	246
Great Lakes Energy Cooperative	MI	4,000	58
Xcel	MN	130,000	0
Lake Country Power	MN	7,200	399
Kandiyohi Power Cooperative	MN	5,000	0
Crow Wing Power	MN	6,500	70
NYSEG	NY	40,000	7,713
Orange and Rockland Utilities	NY	17,000	232
Rochester Gas & Electric	NY	16,000	5,067
FirstEnergy	PA	10,300	2,453
PPL	PA	2,335	4,722

Sources:

- <https://twitter.com/consumersenergy>
- <https://www.consumersenergy.com/outagemap#>
- <https://twitter.com/WIPublicService>
- <https://accel.wisconsinpublicservice.com/outagesummary/view/outagegrid.aspx>
- <http://www.clickondetroit.com/news/dte-17000-without-power-in-livingston-county-due-to-storms>
- <http://www.dteenergy.com/map/outage.html>
- <https://www.facebook.com/greatlakesenergy>
- <http://www.gtlakes.com/storm-central/>
- [http://www.outagemap-xcelenergy.com/outagemap/?\\_ga=1.209867037.907539916.1479741344](http://www.outagemap-xcelenergy.com/outagemap/?_ga=1.209867037.907539916.1479741344)
- <https://www.facebook.com/XcelEnergyMN>
- <https://twitter.com/LCPCoop>
- <http://www.wctrib.com/news/region/4162858-first-snow-also-brings-first-blizzard-winter>
- <https://www.facebook.com/KandiyohiPower>
- <https://www.facebook.com/CrowWingPower/?ref=hl>
- <https://www.facebook.com/NYSEandG>
- <http://www.nyseg.com/Outages/outageinformation.html>
- <https://www.facebook.com/ORUConnect>
- [http://apps.coned.com/stormcenter\\_external\\_oru/default.html](http://apps.coned.com/stormcenter_external_oru/default.html)
- <https://outagemap.rge.com/rge/>

<http://wxnews.org/post/lake-effect-snow-cold-wind-through-monday>  
<https://omap.prod.pplweb.com/omap#pg-tabular>  
<https://omap.prod.pplweb.com/omap#pg-tabular>  
<http://outages.firstenergycorp.com/pa.html>  
[http://www.pennlive.com/news/2016/11/gusty\\_winds\\_to\\_continue\\_sunday.html](http://www.pennlive.com/news/2016/11/gusty_winds_to_continue_sunday.html)  
<http://www.nbcnews.com/news/weather/first-winter-storm-year-kills-two-causes-hundreds-crashes-n686491>

## **Electricity**

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### **Exelon Shuts Its 619 MW Oyster Creek Nuclear Power Plant in New Jersey Due to Turbine Fault November 20**

Exelon reported its Oyster Creek Generating Station automatically shut on Sunday at 3:42 a.m. EST due to a fault in the turbine control system. The system, which is located on the non-nuclear side of the plant, monitors turbine conditions, including speed. Technicians were working to repair and test the system prior to returning the unit to service. Exelon said the shutdown will not have an impact on electrical service to customers.

<http://www.exeloncorp.com/newsroom/oyster-creek-generating-station-offline>

### **Update: Chevron's 125 MW Aggregate Gas-fired Units 1 and 2 in California Return to Service by November 19**

The units returned from an unplanned outage that began on November 4.

<http://content.caiso.com/unitstatus/data/unitstatus201611191515.html>

### **Crockett's 240 MW Crockett Gas-fired Unit in California Shut by November 19**

The unit entered an unplanned outage.

<http://content.caiso.com/unitstatus/data/unitstatus201611191515.html>

### **High Desert Power's 830 MW Gas-fired Unit in California Shut by November 19**

The unit entered an unplanned outage.

<http://content.caiso.com/unitstatus/data/unitstatus201611191515.html>

### **Mountainview Power Company's 525 MW Gas-fired Unit 4 in California Reduced by November 19**

The unit entered an unplanned curtailment of 285 MW.

<http://content.caiso.com/unitstatus/data/unitstatus201611191515.html>

### **Update: RRI Energy's 320 MW Etiwanda Gas-fired Unit 3 in California Returns to Service by November 18**

The unit returned from an unplanned outage that began on November 11.

<http://content.caiso.com/unitstatus/data/unitstatus201611181515.html>

### **Canada Plans to Phase-Out Coal-Fired Power by 2030**

Canada announced on Monday it will virtually eliminate the use of traditional coal-fired electricity by 2030. The Environment Minister said Canada's coal regulation, which accelerates an existing phase-out timetable, will take into account the positions of provinces, some of which have resisted the federal government's plans to counter climate change. Four provinces, Alberta, Saskatchewan, Nova Scotia, and New Brunswick, still burn coal for electricity but the first already has a coal-cutting plan with a similar timeline. Nova Scotia will be allowed to use coal-fired electrical plants beyond 2030 as part of negotiations toward a new equivalency agreement that recognizes the work Nova Scotia has already done on greenhouse gas reductions. Under the current agreement, the province must hit targets of a 25 percent reduction in greenhouse gases by 2020 and a 55 percent reduction by 2030. Once it is finalized, the new agreement will allow Nova Scotia to find equivalent reductions that would have been realized through reducing coal in other areas of the electricity sector.

<http://news.gc.ca/web/article-en.do?mthd=tp&crtr.page=1&nid=1157989&crtr.tp1D=1>

<http://www.reuters.com/article/us-canada-energy-coal-idUSKBN13G1EK>

Reuters, 14:31 November 21, 2016

## **JinkoSolar Supplies 140 MW to North Star Solar Project in Minnesota November 21**

JinkoSolar Holding Co. on Monday announced it completed delivery on 140 MW of PV modules for the North Star project located in Chisago County, Minnesota. The North Star Solar project will utilize over 440,000 of JinkoSolar's high-efficiency 72-cell polycrystalline modules and is expected to connect to the grid in December 2016.

<http://ir.jinkosolar.com/zhen/en/press.php>

## **Petroleum**

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### **Update: Colonial Completes Permanent Repairs to Its 1.37 Million b/d Gasoline Line 1 in Alabama November 20**

Colonial Pipeline on Sunday completed permanent repairs to its 1.37 million b/d Line 1 gasoline pipeline in Alabama and reached planned rates at around 12:33 p.m. EST. The company removed a temporary 500-foot, 36-inch bypass line it had built in September and installed the permanent replacement pipe. Line 1 was shut following an explosion and fire on October 31 in Shelby County, Alabama that shut the line for 13 days. The explosion and fire occurred when a crew working on Line 1 struck the pipeline with a trackhoe used for excavating. Service was restored to Line 1 on November 6 before shutting deliveries more briefly to complete Sunday's work. The Colonial pipeline system connects Gulf Coast refineries with markets across the southern and eastern United States through more than 5,500 miles of pipeline, delivering gasoline, diesel, jet fuel, and other refined products. Lines 1 and 2 run from Houston, Texas to Greensboro, North Carolina, supplying markets in Mississippi, Alabama, Tennessee, South Carolina, and North Carolina.

<http://www.argusmedia.com/news/article/?id=1353583>

### **ExxonMobil to Run HCU at Reduced Rates at Its 344,600 b/d Beaumont, Texas Refinery November 18**

ExxonMobil Corp plans to run the 65,000 b/d hydrocracking unit (HCU) at its Beaumont, Texas, refinery at reduced production levels while repairs, which may last through year-end, are performed on a reformer and a hydrotreater, sources familiar with plant operations said on Friday. An ExxonMobil spokeswoman declined on Friday to discuss the status of specific units at the refinery, but said it continues to meet contractual commitments.

Reuters, 17:04 November 18, 2016

### **Valero Reports Process Unit Upset at Its 335,000 b/d Port Arthur, Texas Refinery November 21**

Valero Energy Corp reported a process unit upset at its Port Arthur, Texas refinery, according to a filing with the Texas Commission on Environmental Quality.

Reuters, 14:47 November 21, 2016

### **LyondellBasell Reports Compressor Trip at Its 263,776 b/d Houston, Texas Refinery November 19**

LyondellBasell Industries reported a compressor trip at its Houston, Texas refinery on November 19, according to a filing with the Texas Commission on Environmental Quality. The compressor was restarted after the incident, according to LyondellBasell.

Reuters, 22:51 November 20, 2016

### **Phillips 66 Reports Equipment Restarted after Process Upset at Its 146,000 b/d Borger, Texas Refinery November 21**

Phillips 66 reported emissions from the sulfur recovery unit incinerator stack exceeded 500 pounds of sulfur dioxide due to a process upset on November 20, according to a filing with the Texas Commission on Environmental Quality. Phillips 66 reported the equipment was restarted

Reuters, 16:14 November 21, 2016

### **Shell Reports Unit Shut at Its 145,000 b/d Puget Sound, Washington Refinery November 18**

Royal Dutch Shell reported an unplanned process unit shutdown at its Puget Sound, Washington refinery on November 18, according to a filing with the Northwest Clean Air Agency.

Reuters, 16:20 November 21, 2016

## **Phillips 66 Reports Upset at Its 101,000 b/d Ferndale, Washington Refinery November 19**

Phillips 66 reported an upset and excess emissions from the SRU incinerator at its Ferndale, Washington refinery on November 19, according to a filing with the Northwest Clean Air Agency. Phillips 66 reported the SRU was brought back into compliance.

Reuters, 16:27 November 21, 2016

## **Sunoco Logistics to Acquire Energy Transfer Partners**

Sunoco Logistics Partners L.P. (SXL) and Energy Transfer Partners, L.P. (ETP) on Monday announced they entered into a merger agreement providing for the acquisition of ETP by SXL in a unit-for-unit transaction. The transaction was approved by the boards of directors and conflicts committees of both partnerships and is expected to close in the first quarter of 2017, subject to receipt of ETP unitholder approval and other customary closing conditions.

<http://www.sunocologistics.com/SiteData/docs/pressrelea/0bfa0fa83ffa8df1/press%20release%2011.21.2016.pdf>

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## **Natural Gas**

### **Enbridge Reports AGI Shut Due to Leak at Its Tilden Gas Plant in Texas November 19**

Enbridge reported a leak discovered on the acid gas injector 2 (AGI) compressor was shut causing AGI 1 to fault on high scrubber level and AGI 4 to fault on high discharge pressure. All gas was routed to the flare to curtail emissions and flow and process were adjusted. AGI 4 was restarted to begin the downhole injection. The transmitter, which was discovered to have caused the initial fault, was replaced and brought back online.

<http://www2.tceq.texas.gov/oce/ee/index.cfm?fuseaction=main.getDetails&target=247379>

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## **Other News**

Nothing to report.

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## **International News**

### **Update: Kazakhstan's Kashagan Oilfield Starts Commercial Output – Energy Minister**

The Kashagan oil field started commercial output, Kazakhstan's energy minister said on Monday. The offshore field in the Caspian Sea has produced about 3.8 million barrels of oil since test pumping began on September 28 and output has exceeded 75,000 b/d since November 1. Kashagan has recoverable oil reserves estimated at 9–13 billion barrels and is one of the world's biggest discoveries in the last 40 years, according to the Kazhak oil ministry. Production, originally due to begin in 2005, did not start until 2013 and then was halted shortly afterwards due to technical problems with gas pipelines. The field is set to ramp up output further during 2017 thanks to reinjection of sour gas into its reservoir, which will increase production to more than 150,000 b/d in 2017 and 230,000 b/d in 2018. Kazakhstan's total production this year is forecast at about 1.6 million b/d. The NCOC consortium developing Kashagan comprises China National Petroleum Corp, ExxonMobil, Eni, Royal Dutch Shell, Total, Inpex, and KazMunaiGas.

Reuters, 7:18 November 21, 2016

### **Iraq's Exports from Kirkuk Oilfields Drop Due to Power Outages – NOC Official**

Iraq's exports from the Kirkuk oilfield through an export pipeline to Turkey dropped because of power outages, an official at state-run North Oil Co. (NOC) said on Saturday. Exports are currently running at 100,000 b/d, compared with 133,000 b/d in October, the official said. The pipeline delivers crude to the Turkish terminal of Ceyhan, on the Mediterranean. It also carries crude produced in fields developed by the Kurdistan Regional Government (KRG), an autonomous region in north Iraq.

Reuters, 2:54 November 19, 2016

## Energy Prices

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U.S. Oil and Gas Prices			
November 21, 2016			
	Today	Week Ago	Year Ago
<b>CRUDE OIL</b> <b>West Texas Intermediate U.S.</b> \$/Barrel	47.43	43.24	39.34
<b>NATURAL GAS</b> <b>Henry Hub</b> \$/Million Btu	2.58	2.03	2.10

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>

Please direct comments and questions to: [ead@oe.netl.doe.gov](mailto:ead@oe.netl.doe.gov)