



U.S. DEPARTMENT OF ENERGY  
Office of Electricity Delivery and Energy Reliability  
Infrastructure Security and Energy Restoration

# ENERGY ASSURANCE DAILY

Monday Evening, January 11, 2016

## Electricity

### Winter Storm Knocks Out Power to Over 190,000 Customers in Northeast January 10

A winter storm producing snow, rain, and high winds knocked out power to 190,903 customers in Michigan, Ohio, Pennsylvania, New York, New Hampshire, and Maine on Sunday. Wind gusts of up to 60 mph were reported. As of 3:30 p.m. EST Monday, 22,803 customers remained without power. DTE Energy, the hardest hit utility with 58,000 customers without power, said its crews were working around the clock to restore power. Central Maine Power expects all power to be restored by tonight. Emera Maine said all customers should have power restored by 10:00 p.m. EST, Wednesday, January 13. National Grid says they expect to have power restored to larger outages in Clay and Fulton, New York by 10:30 p.m. tonight but noted that it would depend on the weather.

Northeast Customer Power Outages January 10–11, 2016			
Electric Utility	State	Peak	Latest Reported
Central Maine Power	ME	31,000	3,657
Emera Maine	ME	28,803	16,119
DTE Energy	MI	58,000	935
Eversource Energy	NH	2,500	108
New Hampshire Electric Cooperative	NH	1,000	0
National Grid	NY	22,000	861
NYSEG	NY	19,000	80
AEP	OH	15,800	428
FirstEnergy	PA	12,800	615
<b>TOTAL*</b>		<b>190,903</b>	<b>22,803</b>

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

Sources:

<http://www.cmpco.com/outages/outageinformation.html>

<https://twitter.com/cmpco>

[http://apps.emeramaine.com/about/outages/Outage\\_Map.cfm](http://apps.emeramaine.com/about/outages/Outage_Map.cfm)

<http://www.dteenergy.com/map/outage.html>

[https://twitter.com/dte\\_energy](https://twitter.com/dte_energy)

<https://www.eversource.com/Content/general/residential/outages>

<https://www.facebook.com/New-Hampshire-Electric-Cooperative-192266577466499/>

<https://www1.nationalgridus.com/PowerOutageMap>

<https://outagemap.nyseg.com/NYSEG/>

<https://twitter.com/AEPnews>

<http://outages.firstenergycorp.com/pa.html>

<http://www.weather.com/news/weather/news/winter-storm-hera-midwest-great-lakes-plains-impacts>

<http://www.pressherald.com/2016/01/10/blustery-rain-should-leave-by-early-evening-in-southern-maine/>

### Update: Duke Energy's 846 MW Oconee Nuclear Unit 1 in South Carolina at Full Power by January 10

On the morning of January 9 the unit was operating at 20 percent, reduced from full power on January 7.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>

### DTE's 1,089 MW Fermi Nuclear Unit 2 in Michigan at Full Power by January 9

On the morning of January 8 the unit was operating at 90 percent, reduced from full power on January 6.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>

## **Entergy's 966 MW River Bend Nuclear Unit 1 in Louisiana Shut after Lightning Strike January 9**

Entergy Corp said its River Bend nuclear power plant in Louisiana automatically shut down early Saturday morning from full power, following an electrical failure caused by a lightning strike. The company did not provide any time frame for the restart of the plant.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>

Reuters, 3:04 January 11, 2016

## **High Desert Power's 830 MW Gas-fired Unit in California Reduced by January 10**

The unit entered an unplanned curtailment of 610 MW.

<http://content.aiso.com/unitstatus/data/unitstatus201601101515.html>

## **NRC Finds 3 Violations from 'Unusual Event' at Dominion's 2,080 MW Millstone Nuclear Power Plant in Connecticut**

The U.S. Nuclear Regulatory Commission (NRC) on January 5 cited Dominion's Millstone Nuclear Power Station for three very low safety significance violations for its Unit 2 reactor following an October 4 incident in which a relief valve on the plant's cooling system malfunctioned and leaked 16,570 gallons of reactor coolant. Millstone will be required to enter a corrective action program with the NRC to mitigate future incidences.

<http://www.theday.com/article/20160106/NWS01/160109567>

## **Vermont Public Service Board Authorizes TDI New England's 1,000 MW Transmission Line Project January 6**

TDI New England on January 6 announced that the New England Clean Power Link has received a Certificate of Public Good from the Vermont Public Service Board. The New England Clean Power Link is a proposed 154-mile underwater and underground transmission line that will deliver 1,000 MW of power to the Vermont and New England market. The line will originate at the U.S.-Canadian border and travel approximately 97 miles underwater down Lake Champlain to Benson, Vermont. The cable will then be buried along town and state road and railroad rights-of-way or on land owned by TDI New England for approximately 57 miles to a new converter station to be built in Ludlow, Vermont. The project is expected to be in service in 2019.

<http://www.necplink.com/press-releases/010616.php>

## ***Petroleum***

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### **Phillips 66 Reports Multiple Unit Upset at Its 314,000 b/d Wood River, Illinois Refinery January 11**

Phillips 66 reported multiple unit upsets due to cold weather at its Wood River, Illinois refinery, according to a filing with the Illinois Emergency Management Agency.

Reuters, 4:10 January 11, 2016

### **Marathon Reports Fire at Its 451,000 b/d Galveston Bay, Texas Refinery Injures Three Workers January 11**

A fire injured three workers at Marathon Petroleum Corp's Galveston Bay refinery in Texas, the company said on Monday, the second time this month that laborers have been hurt during maintenance work there. Marathon did not specify the unit involved in the fire, which was put out, and said its cause was under investigation. Sources said the fire was at the 120,000 b/d fluidic catalytic cracking unit 3, the largest of two FCCUs at the plant, which had been shut for work. On January 2, a worker at the plant was burned by hydrofluoric acid while working on the 31,500 b/d HF alkylation unit 3, which was shut as part of a planned three-month, multi-unit overhaul, a source said.

Reuters, 10:26 January 11, 2016

### **Phillips 66 Reports Emissions at Its 247,000 b/d Sweeny, Texas Refinery January 9**

Phillips 66 reported emissions due to a loss of the wet gas compressor at its Sweeny, Texas, refinery on Saturday, according to a filing with the Texas Commission on Environmental Quality. The refinery was working to safely restart the compressor, the filing added.

Reuters, 10:30 January 10, 2016

## **Total Reports Normal Operations at Its 225,500 b/d Port Arthur, Texas Refinery January 8 after Units Shut Due to Weather January 8**

Total SA said on Monday its Port Arthur, Texas refinery was operating normally after certain process units were shut following a severe weather event on Friday. The weather event reduced steam production and the refinery responded by reducing unit charge rates or shutting down certain process units, a company spokeswoman said. Total reported flaring due to loss of steam at unit 830 on Friday, according to a filing with the Texas Commission on Environmental Quality. The refinery used steam shedding procedures to reduce flaring, the filing added.

Reuters, 9:27 January 10, 2016

Reuters, 11:06 January 11, 2016

## **U.S. Oil Rigs At Lowest Since 2010 – Baker Hughes**

U.S. oil drillers began the year by cutting the number of rigs to the lowest in over five years, Baker Hughes data showed on Friday. Drillers cut 20 oil rigs in the week ended January 8, the third-largest one-week decline since May. The reductions occurred across every major shale patch, from the Permian to the Bakken.

Reuters, 1:21 January 8, 2016

## **Grand Mesa Pipeline Announces Anticipated Open Season for 150,000 b/d Oil Pipeline in Second Quarter 2016**

Grand Mesa Pipeline, LLC, a subsidiary of NGL Energy Partners LP, today announced it will be conducting an additional open season for its 20-inch pipeline that originates at Lucerne/Riverside, Colorado, and will deliver at least two grades of crude oil from the DJ Basin into NGL's facilities at Cushing, Oklahoma. Grand Mesa expects the open season to commence in the second quarter of 2016. Grand Mesa is on target to commence service in the fourth quarter of 2016, and will have a capacity of 150,000 b/d.

<http://www.nglenergypartners.com/investor-relations/news/>

## ***Natural Gas***

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### **U.S. Natural Gas Rig Count Falls to 148 – Baker Hughes**

The number of rigs drilling for natural gas in the U.S. fell by 14 this week to 148, data from Baker Hughes showed on Friday.

Reuters, 1:04 January 8, 2016

### **Vectren to Begin Gas Pipeline Upgrades in Troy, Ohio**

Vectren Energy Delivery on January 7 announced that it will begin replacing gas mains and service lines in Troy, Ohio as part of the company's pipeline replacement program, which is a multi-year program to replace about 700 miles of bare steel and cast iron pipeline infrastructure throughout Ohio. In Troy, \$2.2 million will go toward replacing more than four miles of gas main and more than 320 service lines in 2016. In most cases, a polyethylene (plastic) system is being installed to replace the current bare steel and cast iron gas pipeline system.

<http://www.vectren2.com/evision/troybsci010716.pdf>

## ***Other News***

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Nothing to report.

## ***International News***

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### **North Iraq Oil Exports Fell in December – Minister of Natural Resources**

Oil exports from northern Iraq via pipeline to Turkey fell to an average of 584,056 b/d in December, the Kurdistan region's Ministry of Natural Resources said on Monday, down by around 16,713 b/d from November. The pipeline, which links oil fields in Iraq's autonomous Kurdish region and Kirkuk with Turkey's Mediterranean port of Ceyhan was idle for three days in December due mainly to attempts at sabotage and theft, the ministry said.

Reuters, 9:53 January 11, 2016

## Update: Libya's National Oil Corporation Empties Storage Tanks at Ras Lanuf Terminal after Islamic State Attacks

Libya's National Oil Corporation emptied oil storage tanks at the Ras Lanuf terminal as a precaution after Islamic State militants attacked the country's two biggest oil ports last week, an official from the company said on Monday. Islamic State attacked the major Libyan oil terminals of Es Sider and Ras Lanuf, which lie between the town of Sirte, which is controlled by Islamic State, and the eastern city of Benghazi. The attacks triggered several days of clashes between militants and the Petroleum Facilities Guard and caused fires at five oil storage tanks in Es Sider and two others at the Ras Lanuf facility about 13 miles away. The Petroleum Facilities Guard said the last of those fires were put out on Friday. Each of the oil tanks was estimated to contain 420,000 to 460,000 barrels of oil. Reuters, 12:27 January 11, 2016

## Energy Prices

U.S. Oil and Gas Prices January 11, 2016			
	Today	Week Ago	Year Ago
<b>CRUDE OIL</b> <b>West Texas Intermediate U.S.</b> \$/Barrel	31.37	36.74	48.30
<b>NATURAL GAS</b> <b>Henry Hub</b> \$/Million Btu	2.47	2.31	2.91

Source: Reuters

## Links

***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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