



# ENERGY ASSURANCE DAILY

Thursday Evening, April 28, 2016

## Electricity

### Update: Over 12,000 Customers Remain without Power in Midwest, South April 28 after Strong Storm System Hits April 26–27

Restoration efforts were continuing on Thursday after a strong storm system producing high winds up to 90 mph and hail knocked out power to 318,475 customers across Texas, Oklahoma, Missouri, Kansas, and Louisiana on Tuesday evening into Wednesday. As of 3:30 p.m. EDT Thursday, 12,276 customers remained without power. Entergy on Thursday increased the total number of customer outages in Texas from 37,902 customers to 47,000 due to the storm system. The utility expects nearly full power restoration by Thursday evening. 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, South Customer Power Outages			
April 26–28, 2016			
Electric Utility	State	Affected	Latest Reported
Westar Energy	KS	1,660	34
Southwestern Electric Power Co	LA	4,660	36
Entergy	LA	2,951	2,918
Beauregard Electric Cooperative	LA	1,623	80
Ameren	MO	28,000	148
Kansas City Power and Light	MO	2,700	14
Cuivre River Electric Cooperative	MO	1,014	585
OG&E	OK	22,477	0
Public Service of Oklahoma	OK	6,800	79
Oklahoma Electric Cooperative	OK	3,600	0
Northeast Oklahoma Electric Cooperative	OK	2,087	46
Verdigris Valley Electric Cooperative	OK	1,861	0
People’s Electric Cooperative	OK	1,056	3
CenterPoint Energy	TX	125,000	503
Entergy	TX	47,000	6,257
Oncor	TX	36,000	1,387
Austin Energy	TX	22,000	101
Bluebonnet Electric	TX	4,445	63
San Bernard Electric Cooperative	TX	3,541	22
<b>TOTAL*</b>		<b>318,475</b>	<b>12,276</b>

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

Sources:

- <http://outagemap.westarenergy.com/external/default.html>
- <http://www.becioutage.org/>
- <https://www.swepco.com/outages/outageMap.aspx>
- <https://twitter.com/OGandE>
- [https://oge.com/wps/portal/oge/outages/systemwatch/SystemWatch.List\\_1\\_content.html](https://oge.com/wps/portal/oge/outages/systemwatch/SystemWatch.List_1_content.html)
- <https://www.psoklahoma.com/outages/outageMap.aspx>
- <https://www.facebook.com/OklaElec>
- <http://www.okcoop.org/outages>
- <http://outage.neelectric.com/>
- <http://ebill.vvec.com/oms/outageMap>

<http://outage.peoplesec.com/outagemap.htm>  
<http://gis.centerpointenergy.com/outagetracker/index.html>  
<https://twitter.com/cnpalerts>  
[http://www.etrviewoutage.com/external/tx.aspx?\\_ga=1.177322661.1071334291.1461772914](http://www.etrviewoutage.com/external/tx.aspx?_ga=1.177322661.1071334291.1461772914)  
<https://twitter.com/EntergyTX>  
<http://stormcenter.oncor.com/external/default.html>  
<https://my.austinenergy.com/outages/>  
<https://austinenergy.com/wps/portal/ae/about/news/press-releases/2016/austin-energy-crews-respond-to-overnight-outages>  
<https://twitter.com/BluebonnetCoop>  
<http://outage.bluebonnetelectric.coop:82/>  
<https://www.sbec.org/>  
<http://www.twcnews.com/tx/austin/news/2016/04/27/overnight-storms-leave-thousands-in-central-texas-without-power-.html>  
<http://newsok.com/thousands-without-power-tuesday-night-in-oklahoma/article/5494375>  
<http://www.usnews.com/news/us/articles/2016-04-26/storms-on-tuesday-could-bring-powerful-tornadoes-to-plains>  
<http://www.msnewsnow.com/story/31821824/the-latest-small-tornado-reported-in-kansas-no-injuries>  
[http://www.hutchnews.com/news/local\\_state\\_news/selective-outbreak-hutchinson-eludes-brunt-of-severe-weather-wider-region/article\\_290b911d-8c0b-5707-b48c-af198c996ed2.html](http://www.hutchnews.com/news/local_state_news/selective-outbreak-hutchinson-eludes-brunt-of-severe-weather-wider-region/article_290b911d-8c0b-5707-b48c-af198c996ed2.html)  
<http://www.breakingnews.com/item/2016/04/27/about-14000-eastern-kansas-residents-without-powe/>

### **Update: Entergy's 979 MW Indian Point Nuclear Unit 3 in New York at Full Power by April 28**

On the morning of April 27 the unit was operating at 50 percent, reduced from full power on April 25.  
<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>

### **Update: Campo Verde's 139 MW Solar Unit in California Returns to Service by April 27**

The unit returned from an unplanned outage that began on April 25.  
<http://content.caiso.com/unitstatus/data/unitstatus201604271515.html>

### **Update: Crockett's 240 MW Gas-fired Unit in California Returns to Service by April 27**

The unit returned from an unplanned outage that began on April 26.  
<http://content.caiso.com/unitstatus/data/unitstatus201604271515.html>

## ***Petroleum***

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### **Update: Phillips 66 Shuts Crude Units, Coker after Storms Partially Knock Out Power at Its 336,000 b/d Wood River, Illinois Refinery April 27 – Source**

Phillips 66 shut down a 64,000 b/d crude unit, an associated vacuum distillation unit, and a coking unit at its Wood River, Illinois refinery on Tuesday after heavy storms knocked out power to the western portion of the plant, a source familiar with the plant's operations said. The source added that it was unclear when the units would be restarted.

Reuters, 13:16 April 27, 2016

### **Update: FCCU at Motiva's 603,000 b/d Port Arthur, Texas Refinery to Be Shut 7–10 Days for Work April 28 after Unplanned Shutdown April 27 – Sources**

An 80,000 b/d fluid catalytic cracking unit (FCCU) at Motiva Enterprises' Port Arthur, Texas refinery will be shut for 7–10 days of work after an unplanned shutdown Wednesday, people familiar with the plant's operations said. The outage was previously reported by trade publication Energy News Today.

Reuters, 13:32 April 28, 2016

### **Valero Reports Startup Activities at Its 100,000 b/d Houston, Texas Refinery April 27**

Valero Energy Corp reported startup activities at its Houston, Texas refinery that may require the use of a flare located at the northwest portion of the plant, according to a community information line.

Reuters, 13:31 April 27, 2016

## **Shell Reports Benzene Leak at Its 75,000 b/d Sarnia, Ontario Refinery April 27**

Royal Dutch Shell issued an alert for a benzene leak at its Sarnia, Ontario refinery, according to a community alert. There was no additional information available at this time.  
Reuters, 17:40 April 27, 2016

## **Baker Hughes Expects U.S. Rig Count to Stabilize in Second Half of 2016**

Baker Hughes said on Wednesday it expects U.S. rig count will begin to stabilize in the second half of 2016, while the rig count globally will drop steadily through the end of the year due to fewer new projects. Baker Hughes also said it does not expect drilling activity in the U.S. to increase meaningfully this year, even if the rig count steadies.  
[http://www.rigzone.com/news/oil\\_gas/a/144226/Baker\\_Hughes\\_Expect\\_US\\_Rig\\_Count\\_To\\_Stabilize\\_Later\\_In\\_2016#sthash.oqUFPBjn.dpuf](http://www.rigzone.com/news/oil_gas/a/144226/Baker_Hughes_Expect_US_Rig_Count_To_Stabilize_Later_In_2016#sthash.oqUFPBjn.dpuf)

## **North Dakota PSC Schedules Hearing for BOE's Proposed 165,000 b/d Crude Oil Pipeline May 11**

The North Dakota Public Service Commission (PSC) will hold a public hearing in Killdeer on Wednesday, May 11, regarding a proposal for a crude oil pipeline in McKenzie and Dunn Counties. BOE Pipeline, LLC, has submitted an application for a permit for the location of a new 41.8-mile long, 16-inch diameter crude oil pipeline. The pipeline will carry crude oil from a proposed terminal near Johnson's Corner to the BOE terminal near Killdeer, which is connected by an existing pipeline to the BOE Rail Hub located southwest of Dickinson. The BOE Rail Hub is a loading facility that provides producers and marketers access to destinations served by local rail..  
<http://psc.nd.gov/public/newsroom/2016/5-11-16BOEPipeline16-inchcrude.pdf>

## **Cenovus Considers Building Diluent Recovery Unit at Alberta Rail Terminal**

Cenovus Energy is looking into building a diluent recovery unit at its Bruderheim crude-by-rail terminal near Edmonton, Alberta, which would allow the company to ship raw bitumen in tank cars and save on condensate costs. Cenovus's chief executive said stripping out condensate could improve margins by \$2-\$4 a barrel, depending on market conditions. The company said nothing had been budgeted yet and the construction process would take at least two or three years.  
<http://af.reuters.com/article/energyOilNews/idAFL2N17U2KM>

## **Natural Gas**

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### **Regency Reports Power Blip, Equipment Shutdown Due to High Winds at Its 290 MMcf/d Waha Gas Plant in Texas April 26**

Regency reported a power blip during high winds caused several pieces of equipment to shutdown including the acid gas injector (AGI) compressor. The AGI compressor oil pump breaker also tripped as a result of the service interruption. All equipment was restarted, and once the oil pump breaker was reset, the AGI compressor was placed back in service.  
<http://www2.tceq.texas.gov/oce/eer/index.cfm?fuseaction=main.getDetails&target=232226>

### **Pembina Pipeline Reports Incident, Fatality at Its Redwater, Alberta Facility on April 27**

Pembina Pipeline Corporation said Thursday that a contractor was killed on Wednesday in an incident at Williams' Redwater Olefinic Fractionator in Redwater, Alberta. Pembina, the operator of facility, will be launching a detailed investigation to determine cause of incident and said "further details regarding the incident will not be provided at this time out of respect for impacted family members." The company said an investigation will be conducted by occupational health and safety and other relevant authorities. The Redwater West NGL system includes a 73,000 b/d NGL fractionator and 7.3 million barrels of finished product cavern storage at Redwater, Alberta. Redwater West purchases NGL mix from various natural gas and NGL producers and fractionates it into finished products for further distribution and sale.  
Reuters, 22:51 April 27, 2016  
<http://petroglobalnews.com/2016/04/canada-contractor-dies-at-pembina-facility/>  
<http://www.pembina.com/about-us/our-operations/>

## **Other News**

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Nothing to report.

### Update: United Nations Blacklists Ship Carrying Eastern Libya Oil April 27

The United Nations Security Council Libya sanctions committee on Wednesday blacklisted an Indian-flagged tanker carrying crude oil shipped by the rival eastern Libya government, said diplomats, which would prevent it from entering any ports. Libya's U.N. Ambassador wrote to the 15-member sanctions committee asking that the Distya Ameya tanker, which left the port of Marsa el-Hariga late on Monday, be blacklisted, according to a letter seen by Reuters.

Reuters, 16:04 April 27, 2016

### Germany's Gundremmingen Nuclear Plant Infected with Computer Viruses, No Threat to Operations April 26 – Operator

Computer viruses were discovered at the Gundremmingen nuclear power plant in Germany on April 26, but were isolated and did not appear to have posed a threat to the facility's operations, the plant's operator said on Tuesday. The plant, located about 75 miles northwest of Munich, is run by the German utility RWE. The viruses, which include "W32.Ramnit" and "Conficker," were discovered at Gundremmingen's B unit in a computer system retrofitted in 2008 with data visualization software associated with equipment for moving nuclear fuel rods, RWE said. Malware was also found on 18 removable data drives, mainly USB sticks, in office computers maintained separately from the plant's operating systems. RWE said it had increased cyber-security measures as a result and has informed Germany's Federal Office for Information Security (BSI), which is working with IT specialists to investigate the incident.

<http://www.reuters.com/article/us-nuclearpower-cyber-germany-idUSKCN0XN2OS>

## Energy Prices

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U.S. Oil and Gas Prices			
April 28, 2016			
	Today	Week Ago	Year Ago
<b>CRUDE OIL</b>			
<b>West Texas Intermediate U.S.</b>	45.98	43.13	57.00
\$/Barrel			
<b>NATURAL GAS</b>			
<b>Henry Hub</b>	1.88	2.02	2.48
\$/Million Btu			

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)