



# ENERGY ASSURANCE DAILY

Tuesday Evening, February 26, 2013

## Electricity

### Winter Storms Knock Out Power to Nearly 280,000 Utility Customers in Central United States February 25–26; More Than 136,000 Remain without Power February 26

A wave of winter weather swept across the central and southern United States on Monday and Tuesday, packing heavy snowfall and high winds that knocked out power to 279,934 utility customers in Missouri, Kansas, Oklahoma, Texas, and New Mexico. As of 1:30 p.m. EST, utilities reported 136,189 customers remained without power in the affected areas. Kansas City Power & Light’s service territory in Missouri and Kansas was the hardest hit with an estimated 94,000 customers losing power.

Central and Southern United States Customer Power Outages			
February 25–26, 2013			
Electric Utility	State	Peak	Latest Reported
Ameren Missouri	MO	13,000	13,000
Association of Missouri Electric Coops	MO	54,837	54,837
Kansas City Power & Light	MO/KS	94,000	38,153
Westar Energy	KS	7,984	5,517
Empire District Electric Co.	KS/OK	4,000	265
Oklahoma Electric Cooperative	OK	19,200	~0
Oklahoma Gas & Electric	OK	33,000	21,251
Public Service Co. of Oklahoma (AEP)	OK	12,276	1,725
American Electric Power (Texas)	TX	5,537	622
CPS Energy	TX	22,000	175
Oncor Energy	TX	5,500	620
Xcel Energy	TX/NM	8,600	24
<b>TOTAL*</b>		<b>279,934</b>	<b>136,189</b>

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

Sources:

- <http://www.kmov.com/news/local/Heavy-snow-causing-power-outages-in-Mo-Kan-193303181.html>
- <http://www.californiademocrat.com/news/2013/feb/26/ameren-Missouri/>
- <http://www.kansascity.com/2013/02/26/4087936/after-snow-piles-on-snow-the-end.html>
- <http://apps.ameren.com/outage/OutageMap.aspx?state=MO>
- <http://www.amec.org/content/outage-reports>
- <http://newsok.com/update-state-of-emergency-has-been-declared-in-56-oklahoma-counties/article/3758913>
- <http://www.kansascity.com/2013/02/26/4087235/storm-knocks-out-power-to-parts.html>
- [http://www.kcpl.com/kcmaps/frameset\\_menus.htm](http://www.kcpl.com/kcmaps/frameset_menus.htm)
- [http://www.kcpl.com/storm/storm\\_update.html](http://www.kcpl.com/storm/storm_update.html)
- <http://cjonline.com/news/2013-02-26/forecast-topeka-will-get-about-1-3-inches-new-snow>
- <https://www-11.westarenergy.com/outagemaps/outagetable.asp>
- <http://www.joplinglobe.com/topstories/x986695945/Scattered-power-outages-reported-from-storm-most-schools-out>
- <https://www.empiredistrict.com/Outages/OutageMap.aspx>
- <http://www.kjrh.com/pso-reporting-northeast-oklahoma-power-outages-in-nowata-osage-okmulgee-counties>
- <http://www.fox23.com/State-of-emergency-due-to-winter-storm/xVcYcQy150ax815XAraz0A.csp>
- <https://www.facebook.com/OklaElec>
- <http://public.oge.com/systemwatch/SystemWatch.swf?startMapID=1>
- <https://www.psoklahoma.com/outages/>
- [http://www.mywesttexas.com/top\\_stories/article\\_cc120a60-7fcb-11e2-a1b5-0019bb2963f4.html](http://www.mywesttexas.com/top_stories/article_cc120a60-7fcb-11e2-a1b5-0019bb2963f4.html)
- <http://www.kxxv.com/story/21348370/wind-gusts-cause-scattered-power-outages>
- <http://www.wilsoncountynews.com/>

<http://www.foxnews.com/thousands-without-power-as-second-major-snow-storm-wallops-missouri-kansas/>  
<http://www.kiiitv.com/story/21345083/more-than-5000-aep-customers-reported-without-power>  
<https://www.aeptexas.com/outages/>  
[http://outagemap.cpsenergy.com/CPSStaticMapsEXT/CPSStaticMapV2\\_EXT.html](http://outagemap.cpsenergy.com/CPSStaticMapsEXT/CPSStaticMapV2_EXT.html)  
<http://stormcenter.oncor.com/default.html>

### **TVA's 1,118 MW Browns Ferry Nuclear Unit 3 in Alabama Automatically Shuts Due to Turbine Trip on Loss of Condenser Vacuum February 25**

The Tennessee Valley Authority (TVA) reported that on Monday afternoon, the Browns Ferry Unit 3 reactor automatically scrambled due to the actuation of the Reactor Protection System from a turbine trip, according to a filing with the U.S. Nuclear Regulatory Commission. Preliminary indications show the turbine tripped on low condenser vacuum, which was caused by a Reactor Feedwater recirculation piping separation. All systems responded as expected to the turbine trip. On Monday morning the unit was operating at 86 percent and was returning from an outage that began February 11, when the reactor was shut for maintenance on the condenser cooling water after groundwater from rain damaged the system. The Unit 3 shutdown Monday had no impact on either Unit 1 or 2.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2013/>  
<http://www.nrc.gov/reading-rm/doc-collections/event-status/event/2013/20130226en.html>

### **Update: Duke Energy's 1,100 MW McGuire Nuclear Unit 1 in North Carolina Ramped Up to 70 Percent by February 26**

McGuire Unit 1 is returning from an outage that began February 21, when the reactor automatically tripped from 100 percent power due to a turbine trip caused by a loss of both main feedwater pumps. Operators restarted the unit by February 24.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2013/>

### **LCRA Reports Emissions Due to Repairs on Fan Inlet Vane Linkage at Its 615 MW Fayette Coal-Fired Unit 1 February 25**

The Lower Colorado River Authority (LCRA) reported it was scheduled on Monday to begin maintenance on its Fayette Unit 1 to repair the Unit 1 "A" Induced Draft (ID) fan inlet vane linkage, which had failed February 23. Operators said excess opacity emissions could occur during this maintenance, which was expected to take approximately 8 hours.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=179767>

### **Update: PG&E's 407 MW Helms Hydro Unit 1 in California Returns to Service by February 25**

The unit returned from an unplanned outage that began by February 24.

<http://content.caiso.com/unitstatus/data/unitstatus201302251515.html>

### **Sycamore Cogeneration's 360 MW Sycamore Natural Gas-Fired Unit in California Returns to Service by February 25**

The unit returned from a curtailment of between 180–195 MW, due to both planned and unplanned causes, that had been ongoing since January 23. Prior to this, operators had curtailed 75 MW of capacity due to unplanned causes since January 14.

<http://content.caiso.com/unitstatus/data/unitstatus201302251515.html>

<http://content.caiso.com/unitstatus/data/unitstatus201301231515.html>

<http://content.caiso.com/unitstatus/data/unitstatus201301131515.html>

### **Mirant's 337 MW Contra Costa Natural Gas-Fired Unit 7 in California Shut by February 25**

The unit entered an unplanned outage.

<http://content.caiso.com/unitstatus/data/unitstatus201302251515.html>

### **Calpine's 593 MW Metcalf Energy Center Natural Gas-Fired Unit in California Reduced by February 25**

The unit entered an unplanned curtailment of 163 MW.

<http://content.caiso.com/unitstatus/data/unitstatus201302251515.html>

### **Update: Phillips 66 Restarting Pipestill, SRU at Its 247,000 b/d Sweeny, Texas Refinery after Extended Work by February 25 – Sources**

Phillips 66 was restarting production units including a pipestill and sulfur recovery unit (SRU) at its Sweeny refinery on Monday, according to sources familiar with the operations. Several production units were shut in early January for planned work initially scheduled to run four weeks, but operators extended the work by two weeks for additional repairs. Sources had previously reported the refinery was on Friday restarting a 124,000 b/d crude distillation unit and a coking unit. A Phillips 66 spokesman said Monday that maintenance was still underway.

<http://www.bloomberg.com/news/2013-02-25/gulf-gasoline-slumps-as-exxon-phillips-66-restart-units.html?cmpid=yhoo>

### **Update: Motiva Places FCCU Back Into Production at Its 600,000 b/d Port Arthur, Texas Refinery February 25 – Sources**

Motiva Enterprises placed a fluid catalytic cracking unit (FCCU) at its Port Arthur refinery back into production on Monday, after completing restart procedures over the weekend, according to sources familiar with operations at the refinery. Operators shut the unit February 17 for repairs to fix a leak in a pipe connecting to a storage unit.

Reuters, 17:40 February 25, 2013

### **Process Upset Causes DCU Emissions at Valero's 310,000 b/d Port Arthur, Texas Refinery February 25**

Valero Energy Corp. reported an unspecified process unit upset resulted in flaring of coker blow at its Port Arthur refinery Monday, according to a filing with the Texas Commission on Environmental Quality (TCEQ). The filing lists two flare stacks and the No. 843 delayed coking unit (DCU) as sources of emissions. Operators reestablished a water seal to stop the flaring. On Tuesday, the refinery reported that high level in a suction drum caused the K-1 compressor to trip offline, resulting in a unit's depressuring, according to another filing with the TCEQ. The incident was under investigation. Two flare stacks and the No. 943 hydrocracking unit (HCU) are listed as sources of emissions.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=179750>

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=179771>

### **Phillips Reports Process Upset, FCCU Emissions at Its 146,000 b/d Borger, Texas Refinery February 25**

Phillips 66 reported a process upset and emissions from the No. 40 fluid catalytic cracking unit (FCCU) at its Borger refinery Monday morning, according to a filing with the Texas Commission on Environmental Quality.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=179747>

### **Unspecified Process Unit Upset Causes Flaring at Phillips 66's 362,000 b/d Wood River, Illinois Refinery by February 25**

Phillips 66 on Monday reported an unspecified process unit upset at its Wood River refinery led to flaring, according to a filing with state pollution regulators.

Reuters, 04:00 February 26, 2013

### **BP Keeps 102,500 b/d FCCU and Alkylation Unit Shut for Unexpected Repairs at Its 265,000 b/d Carson, California Refinery – Sources**

BP Plc has kept a 102,500 b/d fluid catalytic cracking unit (FCCU) offline at its Carson refinery after maintenance work was extended due to unexpected repairs required on the FCCU and alkylation unit, according to sources familiar with operations at the refinery. The units have undergone six weeks of overhaul.

Reuters, 16:52 February 25, 2013

## Natural Gas

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### **NET Midstream to Build 42-Inch Eagle Ford Shale Gas Pipeline System to Mexico; Announces Long-Term 2.1 Bcf/d Transportation Contract with MGI Supply Ltd.**

NET Midstream on Friday announced that NET Mexico Pipeline, LP, a wholly owned subsidiary of NET, will build a 124-mile, 42-inch natural gas pipeline system to the Texas/Mexico border, with associated compression. NET Mexico will be anchored by a long term firm gas transportation agreement, for up to 2.1 Bcf/d, with MGI Supply Ltd., an indirect wholly owned subsidiary of Pemex Gas y Petroquimica Basica, the Mexican state-owned gas company. NET Mexico will transport gas from the Agua Dulce Hub in Nueces County, Texas to a point near Rio Grande City, Texas in Starr County. The pipeline will be placed into service in December 2014.

<http://www.netmidstream.com/wp-content/uploads/2012/02/NET-Mexico-Press-Release-022213-FINAL.pdf>

### **Update: Canadian Ministry of Natural Resources Approves LNG Canada to Export LNG from Its Proposed 2 Bcf/d LNG Export Terminal in Kitimat, British Columbia**

Canada's Minister of Natural Resources on Monday announced the approval of a long-term export license to LNG Canada Development Inc. to export liquefied natural gas (LNG) from the terminal proposed by the Shell consortium in Kitimat, British Columbia. LNG Canada is a joint venture comprising Shell, Korea Gas Corp., Mitsubishi Corp., and PetroChina International. The 25-year license allows for exports of up to 24 million tonnes per annum (mtpa), an amount that is roughly equivalent to 3.23 Bcf/d of natural gas. The project will initially consist of two LNG trains with a total capacity of 12 mtpa, or 2 Bcf/d, with an option to expand. The license announced Monday is just one of the major regulatory approvals that will be required for the project to proceed.

<http://www.nrcan.gc.ca/media-room/news-releases/2013/6875>

### **Electrical Disturbance Shuts Two AGI Units at Enbridge's Tilden Gas Plant in Texas February 25**

Enbridge reported acid gas injector (AGI) Units 1 and 2 at its Tilden plant went down Monday afternoon due to an electrical disturbance possibly caused by windy conditions, according to a filing with the Texas Commission on Environmental Quality.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=179758>

## Other News

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### **Update: Alberta Cancels Investment in Swan Hill Synfuel's Coal Gasification Project Due to Poor Economics**

The Alberta government and Swan Hills Synfuels on Monday announced they have agreed to discontinue their \$285 million carbon capture and storage (CCS) funding agreement, citing poor economics. In 2011, the province committed \$285 million over 15 years for Swan Hills Synfuels to capture the carbon dioxide from the gasification of underground coal and sell it for use in enhanced oil recovery. Lower than expected natural gas prices have pushed back timelines for Swan Hills Synfuels' production of synthetic gas and associated carbon capture plans. Deferred project timelines move the carbon capture components beyond the scope of the government's funding requirements.

<http://alberta.ca/NewsFrame.cfm?ReleaseID=/acn/201302/33717121A0157-D5E3-839F-750E02B41D039F98.html>

## International News

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Nothing to report.

## Energy Prices

U.S. Oil and Gas Prices			
February 26, 2013			
	Today	Week Ago	Year Ago
<b>CRUDE OIL</b> <b>West Texas Intermediate U.S.</b> \$/Barrel	92.08	95.78	108.52
<b>NATURAL GAS</b> <b>Henry Hub</b> \$/Million Btu	3.42	3.19	2.68

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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