



# ENERGY ASSURANCE DAILY

Monday Evening, June 03, 2013

## Electricity

### Supercell Thunderstorms Knock Out Power to 276,000 Customers from Oklahoma to Maine Over Weekend

A large, slow-moving cluster of supercell thunderstorms moved across Oklahoma late Friday and northeastward over the weekend, causing widespread power outages from Oklahoma to Maine. Oklahoma, Missouri, and Illinois were the hardest hit Friday night, when torrential rain, hail, flooding, and multiple tornadoes cut power to more than 100,000 Oklahoma Gas & Electric (OG&E) customers, 93,000 Ameren Missouri customers, and more than 32,000 Ameren Illinois customers at the peak of the storms. As of 3:30 p.m. EDT Monday, 17,487 OG&E customers, 32,406 Ameren Missouri customers, and 764 Ameren Illinois customers remained without power. OG&E said it hoped to restore power to all its affected customers by June 5, but it might take longer in some of the hardest-hit areas. Cleco Corporation and Xcel Energy both reported they were sending crews to Oklahoma to help assist OG&E in restoration work. On Sunday Ameren Missouri reported that approximately 2,400 crew members were working storm restoration, but efforts were being hampered by significant infrastructure damage. Ameren Illinois crews and linemen from five other States were assisting in the effort. The utility expected that customers in the most heavily damaged areas could continue to go without power Monday and possibly into Tuesday. The storm system also impacted parts of the U.S. Northeast and the Canadian province of Quebec on Saturday night and Sunday, cutting power to 400 Western Mass. Electric and about 1,000 National Grid customers in Massachusetts; about 2,400 Rochester Gas & Electric customers in New York; 13,500 Green Mountain Power customers in Vermont; more than 13,000 Public Service of New Hampshire customers in New Hampshire; 17,000 Central Maine Power Customers and about 3,700 Bangor Hydro/Maine Public Service Co. customers in Maine. Utilities in these states expected most customers would be restored by early Tuesday. Thunderstorms also knocked out power to 48,000 Hydro-Quebec customers in Quebec on Saturday.

Central and Eastern U.S. Customer Power Outages			
May 31-June 3, 2013			
Electric Utility	State	Peak	Latest Reported
Oklahoma Gas & Electric	OK	100,000	17,487
Ameren Missouri	MO	93,000	32,406
Ameren Illinois	IL	32,000	764
Central Maine Power	ME	17,000	2,998
Bangor Hydro/Maine Public Service Co	ME	3,700	307
Green Mountain Power	VT	13,500	2,261
Public Service of New Hampshire	NH	13,000	493
Rochester Gas & Electric	NY	2,400	252
National Grid	MA	1,000	5
Western Mass. Electric	MA	400	0
Hydro-Quebec	QU	48,000	2,521
<b>TOTAL*</b>		<b>276,000</b>	<b>56,973</b>

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

Sources:

<http://public.oge.com/systemwatch/SystemWatch.swf?startMapID=1>

<http://apps.ameren.com/outage/OutageMap.aspx?state=MO>

<http://apps.ameren.com/outage/OutageMap.aspx?state=IL>

<https://twitter.com/OGandE>

<https://www.facebook.com/OGepower>

[http://www.oge.com/Documents/Estimated%20Time%20of%20Restoration%20Map\\_May%2031.pdf](http://www.oge.com/Documents/Estimated%20Time%20of%20Restoration%20Map_May%2031.pdf)

<http://investors.cleco.com/phoenix.zhtml?c=82212&p=irol-newsArticle&ID=1826067>

<http://www.connectamarillo.com/news/story.aspx?id=904916>  
<http://ameren.mediaroom.com/index.php?s=43>  
<http://www.greenwichtime.com/news/article/Storm-knocks-out-power-takes-down-trees-and-wires-4569671.php>  
<http://bangordailynews.com/more-than-1200-bangor-hydro-customers-without-power-due-to-thunderstorms/>  
<http://www.burlingtonfreepress.com/article/20130602/NEWS07/306020029/>  
<http://www.wggb.com/2013/06/02/storm-causing-scattered-power-outages>  
<http://www.whec.com/news/stories/s3052978.shtml?cat=566>  
<http://www.cbc.ca/news/canada/ottawa/story/2013/06/02/montreal-weather-rain-flooding-storm-june.html>  
<http://www.cmpco.com/Outages/outageinformation.html>  
[http://apps.bhe.com/about/outages/outage\\_map.cfm](http://apps.bhe.com/about/outages/outage_map.cfm)  
<https://wss.greenmountainpower.com/customers/outages/>  
<http://www.psnh.com/outage/outagemap.aspx>  
<http://outagemap.rge.com/ny/?style=rge>  
<https://www1.nationalgridus.com/PowerOutageMap>  
<https://www.wmeco.com/outage/outagemap.aspx>

### **Hailstorm Cuts Power to 28,000 DTE Energy Customers Across Metro Detroit May 30**

Hailstorms in the Detroit metropolitan area knocked out power to 28,000 DTE customers Thursday night. As of Friday morning, the utility had restored power to all but 6,000 customers.

<http://www.wxyz.com/dpp/news/dte-customers-without-power-across-metro-detroit>

### **Update: FPL Shuts 839 MW Saint Lucie Nuclear Unit 2 in Florida May 31 Due to an Anticipated Loss of Condenser Cooling**

Florida Power & Light (FPL) reported that on Friday night, operators manually tripped Saint Lucie Unit 2 due to high differential pressure on the debris filter for the 2A1 Condenser Waterbox, which required a trip of the 2A1 Circulating Water Pump. The cause of the rising differential pressure on the 2A1 debris filter was potentially due to an influx of algae. The 2A2 Condenser Waterbox and the 2A2 Circulating Water Pump were already removed from service due to a suspected condenser tube leak. The reactor trip response is considered uncomplicated and the unit is stable in Mode 3 at normal temperature and pressure. Unit 2 is in a normal shutdown electrical lineup. There was no impact on Unit 1. Operators had reduced power on Unit 2 from 100 percent on May 29 to 88 percent by May 30, and again to 57 percent by May 31.

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

<http://www.nrc.gov/reading-rm/doc-collections/event-status/event/2013/20130603en.html>

### **Southern's 1,149 MW Vogtle Nuclear Unit 2 in Georgia Shut by June 2**

Operators reduced the unit from full power to 16 percent power by June 1.

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

### **Southern's 856 MW Hatch Nuclear Unit 1 in Georgia Reduced to 61 Percent by June 1**

On the morning of May 31 the unit was operating at full power.

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

### **Update: PPL's 1,105 MW Susquehanna Nuclear Unit 1 in Pennsylvania Restarts by June 2, Ramps Up to 14 Percent by June 3**

Susquehanna 1 is returning from an outage that began on May 9, when operators shut the reactor to install turbine modifications, the first phase of a long-term plan that is expected to resolve turbine blade issues that have affected plant operation in recent years. Workers made the same modifications to Unit 2 during its regularly scheduled refueling outage, which ended May 31. On the morning of June 2 the unit was operating at 5 percent.

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

### **Update: Exelon's 855 MW Quad Cities Nuclear Unit 1 in Illinois at Full Power by June 1**

On the morning of May 31 the unit was operating at 75 percent.

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

### **CDWR's 933 MW Hyatt-Thermalito Hydro Unit in California Reduced by May 31**

The unit entered a curtailment of 141 MW that was due to both planned and unplanned causes.

<http://content.aiso.com/unitstatus/data/unitstatus201305311515.html>

## **Update: Calpine's 561 MW Los Medanos Natural Gas-Fired Unit in California Returns to Service by May 31**

The unit returned from an unplanned curtailment of 296 MW that began by May 30.

<http://content.aiso.com/unitstatus/data/unitstatus201305311515.html>

## **Update: NRG's 320 MW Etiwanda Natural Gas-Fired Unit 3 in California Returns to Service by May 31**

The unit returned from an unplanned outage that began by May 29.

<http://content.aiso.com/unitstatus/data/unitstatus201305311515.html>

## ***Petroleum***

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### **Update: ExxonMobil Returns CDU, FCCU to Production at Its 149,500 b/d Torrance, California Refinery by June 3 – Trade Sources**

ExxonMobil Corp. returned the crude distillation unit (CDU) and fluidic catalytic cracking unit (FCCU) to production over the weekend at its Torrance refinery, trade sources said on Monday. The refinery was hit by a plant-wide power disruption Thursday as it was returning from a month-long overhaul of several units, including the CDU. The power disruption was caused when a Mylar balloon drifted into two electrical power transmission lines that morning.

Reuters, 09:56 June 3, 2013

### **Coker Unit Upset Causes Emissions at Flint Hills' 288,468 b/d Corpus Christi, Texas Refinery May 31**

Flint Hills Resources reported an upset on a coker drum at its Corpus Christi refinery led to emissions from the coker unit, 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=183454>

### **Update: Kinder Morgan Shelves Proposed 277,000 b/d Freedom Crude Oil Pipeline from West Texas to California Citing a Lack of Shipper Interest**

Kinder Morgan Energy Partners LP said Friday that it has shelved a proposal to build a pipeline to ship oil from West Texas to California, due to a lack of interest from West Coast refiners like Valero Energy Corp. and Tesoro Corp., which have said they are content to use rail cars and barges to deliver oil to their facilities. Kinder Morgan in early April announced an open season for the proposed 277,000 b/d Freedom crude oil pipeline to transport oil from the Permian Basin to refining complexes in northern and southern California.

<http://finance.yahoo.com/news/kinder-morgan-shelves-texas-california-222335135.html>

<http://www.reuters.com/article/2013/05/31/kindermorgan-pipeline-california-idUSL2NOEC1JA20130531?feedType=RSS&feedName=rbssEnergyNews&rpc=43>

### **Valero Seeking Permit to Build 60,000 b/d Rail Offloading Facility to Deliver North American Crude to its Wilmington, California Refinery**

Valero Energy Corp. on Monday said it is seeking a permit from the South Coast Air Quality Management District to build a rail offloading facility that could take up to 60,000 b/d of less expensive North American crude to replace more expensive imports at its Wilmington refinery. The pollution regulator said it would take about 18 months to finish an environmental review of the proposal, issue all permits, and complete construction.

Reuters, 11:11 June 3, 2013

## ***Natural Gas***

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### **Enterprise Commissions New Splitter Unit at Its Mont Belvieu NGL Complex in Texas June 3**

Enterprise reported it was expecting elevated emissions as it commissioned the Splitter IV expansion unit at its Mont Belvieu natural gas liquids (NGL) complex this week, according to a filing with the Texas Commission on Environmental Quality. Operators expected emissions to begin this morning and continue through Thursday morning.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=183431>

## Other News

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Nothing to report.

## International News

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Nothing to report.

## Energy Prices

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<b>U.S. Oil and Gas Prices</b>			
June 3, 2013			
	<b>Today</b>	<b>Week Ago</b>	<b>Year Ago</b>
<b>CRUDE OIL</b> <b>West Texas Intermediate U.S.</b> \$/Barrel	93.43	95.05	83.54
<b>NATURAL GAS</b> <b>Henry Hub</b> \$/Million Btu	4.02	4.15	2.35

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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