



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

# ENERGY ASSURANCE DAILY

Wednesday Evening, December 01, 2010

## Electricity

### Storms Knock Out Power to More than 238,000 Customers along U.S. East Coast December 1

Storms blasted the U.S. East Coast on December 1, knocking out power to an estimated 238,441 customers in seven states and Washington, D.C., multiple news and company sources reported. Some 116,348 customers remained without power, as of latest reports. The following table lists peak and current outage figures, based on latest available data.

U.S. East Coast Customer Power Outages December 1, 2010			
Electric Utility	State	Peak	Latest Reported
BGE	MD	37,448	5,252
Pepco	MD/DC	5,000	117
Blue Ridge Electric	NC	26,065	2
Progress Energy	NC	10,000	831
Duke Energy	NC	9,000	517
LIPA	NY	19,360	19,360
NYSEG	NY	13,400	13,400
National Grid	NY	12,000	12,000
Con Edison	NY	9,675	8,498
Central Hudson Gas and Electric	NY	6,547	6,547
Orange & Rockland	NY	2,409	2,409
CL&P	CT	19,935	19,935
JCP&L	NJ	18,500	5,000**
Atlantic City Electric	NJ	15,500	7,936
PSE&G	NJ	10,600*	9,000**
Dominion	VA	12,000	923
Met-Ed	PA	5,700	2,000**
PPL	PA	5,302	2,621
<b>TOTAL *</b>		<b>238,441</b>	<b>116,348</b>

\*PSE&G's peak includes 5,000 customers affected by a substation fire, apparently unrelated to the storms.

\*\*The latest figures for JCP&L, PSE&G, and Met-Ed are averages, based on estimates from company websites.

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

Sources:

BGE: <http://www.bge.com/portal/site/bge/menuitem.42d31413f80c584606370f10d66166a0/>

Pepco: <http://www.pepco.com/home/emergency/maps/stormcenter/> , <http://voices.washingtonpost.com/local-breaking-news/thousands-without-power.html>

Blue Ridge: <http://bremco.maps.sienatech.com/> , <http://www2.journalnow.com/news/2010/dec/01/6/more-2000-forsyth-without-power-ar-581262/>

Progress Energy: <http://progress-energy.com/shared/outages/car/default.aspx>

Duke Energy: <http://www.duke-energy.com/north-carolina/outages/current.asp#> , <http://www.wcnc.com/news/local/Overnight-storms-cause-power-outages-11108519.html>

CL&P: <http://www.cl-p.com/outage/outagemap.aspx> , [http://www.myrecordjournal.com/latestnews/article\\_97bb33fe-fd78-11df-a731-001cc4c002e0.html](http://www.myrecordjournal.com/latestnews/article_97bb33fe-fd78-11df-a731-001cc4c002e0.html)

LIPA: <http://www.lipower.org/stormcenter/outages/outagemap.html>

NYSEG: <http://ebiz1.nyseg.com/cusweb/outage/> , <http://www.wcax.com/Global/story.asp?S=13596534>

National Grid: <http://www.wcax.com/Global/story.asp?S=13596534>

Con Edison: <http://apps.coned.com/weboutageinfo/stormcenter/default.aspx>  
Central Hudson Gas and Electric: <http://stormcentral.cenhud.com/default.aspx> ,  
<http://www.wcax.com/Global/story.asp?S=13596534>  
Orange & Rockland: [http://wp1.coned.com/or\\_stormcenter/default.aspx](http://wp1.coned.com/or_stormcenter/default.aspx)  
JCP&L: [http://www.firstenergycorp.com/outages/outages.do?state\\_code=NJ](http://www.firstenergycorp.com/outages/outages.do?state_code=NJ) ,  
<http://newyork.cbslocal.com/2010/12/01/heavy-rains-to-soak-big-apple-wednesday/>  
Atlantic City Electric: <http://www.atlanticcityelectric.com/home/emergency/maps/stormcenter/> ,  
[http://www.nj.com/salem/index.ssf/2010/12/strong\\_storm\\_sweeping\\_through.html](http://www.nj.com/salem/index.ssf/2010/12/strong_storm_sweeping_through.html)  
PSEG&G: [http://www.pseg.com/home/customer\\_service/outage\\_info/outagemap.jsp](http://www.pseg.com/home/customer_service/outage_info/outagemap.jsp) ,  
<http://newyork.cbslocal.com/2010/12/01/heavy-rains-to-soak-big-apple-wednesday/>  
Dominion: <http://www.dom.com/storm-center/dominion-electric-outage-summary.jsp> ,  
<http://voices.washingtonpost.com/local-breaking-news/thousands-without-power.html>  
Met-Ed: [http://www.firstenergycorp.com/outages/outages.do?state\\_code=PA](http://www.firstenergycorp.com/outages/outages.do?state_code=PA) , [http://www.ydr.com/ci\\_16749351](http://www.ydr.com/ci_16749351)  
PPL: <https://selfserv.pplelectric.com/EUSelfServ/Outage/OutageMap.aspx> ,  
<http://www.poonorecord.com/apps/pbcs.dll/article?AID=/20101201/NEWS/101209982/-1/NEWS01>

### **Update: Dominion's 871 MW Millstone Nuclear Unit 2 in Connecticut Ramped Up to 76 Percent by December 1**

The unit shut automatically on November 28 after the “loss of condenser vacuum” led to a “turbine trip,” Dominion said in a previous filing with the Nuclear Regulatory Commission (NRC). The NRC reported that on the morning of November 30 the unit was operating at 1 percent.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/event/2010/20101129en.html>

Information also derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2010/>

### **Update: Duke Energy's 1,129 MW Catawba Nuclear Unit 1 in South Carolina at Full Power by December 1**

Duke reduced the unit to 20 percent power on November 26 to fix a small steam leak, a company spokeswoman said previously. The Nuclear Regulatory Commission reported that on the morning of November 30 the unit was operating at 65 percent.

<http://www.bloomberg.com/news/2010-11-29/u-s-nuclear-output-slips-as-dominion-s-millstone-plant-trips.html>

Information also derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2010/>

### **Update: FPL's 693 MW Turkey Point Nuclear Unit 4 in Florida at Full Power by December 1**

The Nuclear Regulatory Commission reported that on the morning of November 30 the unit was operating at 50 percent.

Information derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2010/>

### **San Miguel Electric Coop Restarts 410 MW San Miguel Coal-Fired Power Plant in Texas November 30**

San Miguel Electric Coop was restarting the unit on November 30, it said in a filing with state regulators. The company shut the unit to replace "a bad breaker in the Pulverizer Motor Control Center," according to the filing. It was not clear when the unit went offline.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=147968>

### **Update: NRC Renews Operating License for NPPD's 764 MW Cooper Nuclear Power Plant in Nebraska**

The Nuclear Regulatory Commission (NRC) renewed the operating license for Nebraska Public Power District's (NPPD) 764 MW Cooper nuclear power plant in Nebraska for an additional 20 years, the agency said on November 30. The new license will expire on January 18, 2034. The NRC has approved 20-year license renewals at 60 of the country's 104 operating nuclear power plants, according to Reuters. The agency has received – and is presumably reviewing – at least 22 more applications.

<http://www.nrc.gov/reading-rm/doc-collections/news/2010/10-214.pdf>

Reuters, 18:57 November 30, 2010

## **Eurus Energy to Boost Wind, Solar Power Capacity by 1,000 MW in United States, Asia, and Europe over Next Five Years: CEO**

Eurus Energy Holdings Corp., a subsidiary of Tokyo Electric Corp., plans to increase its wind and solar electric generating capacity by 1,000 MW – from 1,950 MW at present – over the next five years in the United States, Europe, and Asia, the company's CEO said on November 29. Wind would account for about 90 percent of the new capacity. The company could construct wind farms in Texas, Oregon, Washington, Oklahoma, and/or Colorado. "In the coming few years, the U.S. will be the most attractive market," the CEO said, citing President Obama's efforts to spur growth in the renewable energy sector. Eurus and NRG Solar plan to open a 45 MW solar power project in California in June 2011.

<http://www.bloomberg.com/news/2010-12-01/tokyo-electric-s-eurus-unit-plans-50-expansion-in-wind-solar-capacity.html?cmpid=yhoo>

## **Petroleum**

---

### **Update: After November 25 Power Outage, Enbridge to Return 670,000 b/d, Wisconsin-to-Indiana Line 6A to Pre-Reduction Levels December 1**

Enbridge planned to resume pre-reduction levels along its 670,000 b/d, 34-inch, Wisconsin-to-Indiana crude oil Line 6A on December 1, about six days after a power outage disrupted operations at a pumping station and led Enbridge to cut throughput along the line. Trade sources said deliveries along the line had been slashed by about one-third. Enbridge had been operating the line at reduced pressure – 80 percent – prior to last week's incident, owing to a spill-induced shutdown and restart in September. The company expected to return the line to that still-reduced pressure on December 1.

<http://www.reuters.com/article/idUSN3027508720101130>

<http://www.calgaryherald.com/Enbridge+reduces+flow+main+pipeline/3889306/story.html>

### **Update: Citing Safety Issues, BP Suspends Construction Work on Liberty Project Offshore Alaska by November 30**

BP suspended construction work on its proposed Liberty project in the Beaufort Sea offshore Alaska, a spokesman said on November 30, citing a plan to review the rig's safety systems. BP had previously expected to begin drilling in late 2010, and launch production in late 2011. It re-assessed its plans, however, after the Deepwater Horizon disaster in the U.S. Gulf of Mexico. BP still plans to pursue the project. The field contains approximately 100 million barrels of recoverable oil, according to Reuters.

Reuters, 17:11 November 30, 2010

### **FCC Shuts at Chevron's 330,000 b/d Pascagoula, Mississippi Refinery by November 30**

A malfunction led to the shutdown of a gasoline-making fluid catalytic cracking unit (FCC) at Chevron's 330,000 b/d Pascagoula, Mississippi refinery, trade sources said. The unit could be offline for up to three weeks, according to the sources. Chevron had not confirmed the shutdown, as of latest reports.

Reuters, 15:28 November 30, 2010

### **Update: Valero Expects FCC to Stay Offline for Several Days at 180,000 b/d Memphis, Tennessee Refinery**

Valero shut the gasoline-producing fluid catalytic cracking unit (FCC) on November 29 to fix a wet gas compressor. Reuters, 10:01 December 1, 2010

### **Update: ExxonMobil Resumes Normal Operations at 150,000 b/d ExxonMobil Torrance, California Refinery November 30**

ExxonMobil restarted an unspecified unit and resumed normal operations at its 150,000 b/d Torrance, California refinery on November 30, the company said. The unit shut on November 26. The company did not identify the affected unit, but a trade source said previously that it had been the 100,000 b/d gasoline-making fluid catalytic cracking unit (FCC). Operators had, at the time of the shutdown, been recovering from a separate, apparently unrelated outage: a third-party power outage forced shut some units at the facility on November 24.

Reuters, 18:26 November 30, 2010

Reuters, 15:56 November 26, 2010

Reuters, 11:00 November 29, 2010

Reuters, 19:45 November 28, 2010

Reuters, 12:49 November 29, 2010

## **Irving Oil Shuts Residual FCC at 300,000 b/d Saint John, New Brunswick Refinery by December 1**

The company shut the residual fluid catalytic cracker (FCC) for maintenance, and expected the unit to remain shut for 72 hours, according to a company spokeswoman. It was not clear if the incident had any impact on production.  
<http://af.reuters.com/article/energyOilNews/idAFN0114556520101201>

## **In Reversal of Historical Trend, Companies Delivering Increasing Quantities of Crude Oil from U.S. Midwest to U.S. Gulf Coast**

Companies are delivering more crude oil from the U.S. Midwest to the U.S. Gulf Coast – 164,000 b/d in September 2010 compared to 48,000 b/d in August – in what one group of analysts called a reversal of the historical norm “and possibly an early signal that a Midwestern bottleneck in new Canadian crude flows... might be easing.”  
<http://www.vancouversun.com/business/Analysts+More+flows+from+Midwest+easing+glut/3906668/story.html>

## **Enterprise Products Expands Refined Products Storage Capacity by About 2 Million Barrels at Mont Belvieu, Texas Storage Complex**

Enterprise Products Partners L.P. added approximately 2 million barrels of new underground storage capacity for motor gasoline and distillates at its Mont Belvieu, Texas storage complex, it said on November 30. Combined with other recently-constructed facilities, the company now has approximately 10 million barrels of refined products storage capacity in the Gulf Coast area. In addition to providing incremental storage capacity, Enterprise said it also made improvements to its network of terminals. It added ethanol-handling capabilities at its Lebanon, Ohio and North Little Rock, Arkansas terminals, and equipped the terminals to handle low sulfur and ultra-low sulfur diesel, as well as regular unleaded gasoline.

<http://phx.corporate-ir.net/phoenix.zhtml?c=80547&p=irol-newsArticle&id=1501800&highlight=>

## **Update: Shell to Boost Production to 175,000 b/d by End of 2012 at Existing 65,000 b/d Majnoon Oilfield in Iraq**

The company had already raised Majnoon’s production from 40,000 b/d to 65,000 b/d in 2010. The field holds 12.8 billion barrels of crude oil.

[http://www.rigzone.com/news/article.asp?a\\_id=101753](http://www.rigzone.com/news/article.asp?a_id=101753)

## **Lukoil Hopes to Produce 150,000 b/d in January 2013 and 500,000 b/d in January 2014 at West Qurna 2 Oilfield in Iraq**

Lukoil and Statoil said previously that they eventually expected the field to produce 1.8 million b/d of crude oil.

[http://www.rigzone.com/news/article.asp?a\\_id=101709](http://www.rigzone.com/news/article.asp?a_id=101709)

## **Natural Gas**

---

### **State Assembly Approves Temporary Ban on Hydraulic Fracturing in New York November 30**

Citing environmental, safety, and health concerns, the New York State Assembly approved a measure that would – if signed by the Governor – ban hydraulic fracturing in New York until May 15, 2011. The move is intended to allow the state to more-thoroughly review the technique. Governor David Patterson is expected to sign the bill.

[http://www.rigzone.com/news/article.asp?a\\_id=101718](http://www.rigzone.com/news/article.asp?a_id=101718)

### **EIA Credits Shale Formations as United States Discovers Record 47.6 Tcf of Wet Natural Gas in 2009**

The United States discovered a record 47.6 Tcf of wet natural gas in 2009, increasing its proved natural gas reserves by 11.3 percent, to a total 283.9 Tcf, the U.S. Energy Information Administration (EIA) said in a yearly review.

That 283.9 Tcf total marked the highest such figure since 1971, and the 47.6 Tcf in new discoveries more than doubled the 22.5 Tcf that the nation produced last year. The EIA credited the surge to shale gas growth in Louisiana, Arkansas, Texas, Oklahoma, and Pennsylvania. In the same report, the EIA reported a rise in domestic crude oil reserves. U.S. crude oil plus lease condensate proved reserves increased by 9 percent – to a total 22.3 billion barrels – in 2009, according to the EIA

[http://www.eia.gov/pub/oil\\_gas/natural\\_gas/data\\_publications/crude\\_oil\\_natural\\_gas\\_reserves/current/pdf/arrsummary.pdf](http://www.eia.gov/pub/oil_gas/natural_gas/data_publications/crude_oil_natural_gas_reserves/current/pdf/arrsummary.pdf)

<http://af.reuters.com/article/energyOilNews/idAFN3029057520101130>

## **Enterprise Products Opens 75,000 b/d NGL Fractionator at Mont Belvieu, Texas Complex by November 30**

Enterprise Products Partners L.P. opened a 75,000 b/d natural gas liquids (NGL) fractionator at its Mont Belvieu, Texas complex, increasing the complex's nameplate capacity to 305,000 b/d, the company said on November 30. The fractionator is expected to serve producers in the Barnett Shale and the Rockies.

<http://phx.corporate-ir.net/phoenix.zhtml?c=80547&p=irol-newsArticle&id=1501374&highlight=>

## **Other News**

---

### **Rhino Resource Partners to Develop 109.5 Million Ton Underground Coal Mine near Taylorville, Illinois**

Rhino Resource Partners LP's subsidiary, Taylorville Mining LLC, received a permit from the Illinois Department of Natural Resources to pursue an underground coal mine near Taylorville, Illinois, Rhino said on November 30. The Taylorville field contains an estimate 109.5 million tons of proven and probable coal reserves. Once it secures sales commitments for the mine's coal, the company plans begin developing the mine and constructing support facilities. The construction cycle is expected to take 18 to 22 months.

<http://ir.rhinoresources.com/phoenix.zhtml?c=198170&p=irol-newsArticle&ID=1501355&highlight=>

## **Energy Prices**

---

<b>U.S. Oil and Gas Prices</b>			
December 1, 2010			
	<b>Today</b>	<b>Week Ago</b>	<b>Year Ago</b>
<b>CRUDE OIL</b> <b>West Texas Intermediate U.S.</b> \$/Barrel	86.28	83.00	78.84
<b>NATURAL GAS</b> <b>Henry Hub</b> \$/Million Btu	4.16	3.93	4.41

Source: Reuters

## **Energy Notes**

---

### **Thieves Take Copper Natural Gas Pipeline from Empty Home in Redstone Township, Pennsylvania November 27 – Cops Allege that Thieves Caused Gas Leak and Then Intentionally Triggered Explosion**

[http://www.ldnews.com/news/ci\\_16741681](http://www.ldnews.com/news/ci_16741681)

### **Ex-OPPD Employee Accused of Stealing 3,200 Pounds of Copper and Aluminum from Company Substation in Nebraska over Past 18 Months**

<http://www.ketv.com/r/25951952/detail.html>

### **Update: Finavera Renewables Files Environmental Assessments Applications for Proposed 77 MW Wildmare and 47 MW Tumbler Ridge Wind Power Projects in British Columbia, Canada by December 1 – Company to Break Ground in 2011, Open Projects in 2012**

<http://www.finavera.com/media/press-release/finavera-renewables-submits-environmental-assessment-applications-wildmare-and>

**Petrobank Estimates that its Conklin, Dawson, and Kerrobert Projects in Alberta, Canada Contain Best Estimate Exploitable Bitumen and Heavy Oil in Place of More than 1.7 Billion Barrels**

<http://www.petrobank.com/wp-content/uploads/2010/11/PBG-2010-11-29-PR.pdf>

**ExxonMobil Sees No Impact on Production as Workers Attempt to Prevent Access to Qua Iboe Oil Export Terminal in Akwa Ibom, Nigeria December 1**

<http://www.platts.com/RSSFeedDetailedNews/RSSFeed/Oil/8242363>

**Flow Transmitter Freezes, Leads to Flaring at Goldsmith Gas Plant in Texas November 30 – Technician Resolves Issue, Stops Flaring in Less Than Two Hours**

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=147913>

**Equipment Failure Leads to Shutdown of Midkiff Gas Plant in Texas November 30 – Incident Leads to Temporary Flaring at Boyd Compressor Station in Texas**

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=147946>

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=147922>

## **Links**

---

***This Week in Petroleum*** from the Energy Information Administration (EIA)

<http://tonto.eia.doe.gov/oog/info/twip/twip.asp>

Updated every Wednesday.

***Weekly Petroleum Status Report*** from EIA

[http://www.eia.doe.gov/oil\\_gas/petroleum/data\\_publications/weekly\\_petroleum\\_status\\_report/wpsr.html](http://www.eia.doe.gov/oil_gas/petroleum/data_publications/weekly_petroleum_status_report/wpsr.html)

Updated after 10:30 AM & 1:00 PM EST every Wednesday.

***Natural Gas Weekly Update*** from EIA

<http://tonto.eia.doe.gov/oog/info/ngw/ngupdate.asp>

Updated after 2:00 PM EST every Thursday.

### **ENERGY ASSURANCE DAILY**

---

*Energy Assurance Daily* provides a summary of public information concerning current energy issues. Published Monday through Friday to inform stakeholders of developments affecting energy systems, flows, and markets, it provides highlights of energy issues rather than a comprehensive coverage. *Energy Assurance Daily* is updated online Monday through Friday after 5:00 p.m. EST. For more information, visit the Infrastructure Security and Energy Restoration (ISER) website at:

<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)