



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

# ENERGY ASSURANCE DAILY

Thursday Evening, December 10, 2009

## Electricity

### Fewer than 100,000 Customers Remain Without Power across U.S. Midwest December 10

An estimated 90,022 customers remained without power across a wide range of U.S. states on December 10, about one day after storms cut power to more than 500,000, multiple sources reported. The following table lists peak and current outage figures, based on latest available data.

U.S. Midwest Customer Power Outages December 8-10, 2009			
Electric Utility	State	Peak	Latest Reported
DTE Energy	MI	73,000	9,000
Consumers Energy	MI	50,000	4,400
Appalachian Power	WV	55,000	22,450
Allegheny Power	WV	18,087	3,512
AEP	WV	6,253	652
Appalachian Power	VA	35,995	14,763
Bristol Virginia Utilities	VA	4,000	0
Duke Energy	OH/KY	31,006	12,542
AEP	OH	27,728	2,014
First Energy	OH	9,800	230
South-Central Power	OH	5,627	11
We Energies	WI	28,000	15,000
Alliant Energy	WI	22,817	332
Wisconsin Public Service	WI	12,385	185
Madison Gas & Electric	WI	7,000	0
Allegheny Power	PA	25,920	538
Duquesne Light Co.	PA	14,000	800
Ameren	IL	11,153	46
ComEd	IL	7,300	1,400
Knoxville Utilities Board	TN	10,200	180
Bristol Tennessee Essential Services	TN	7,000	0
Greenville Light & Power	TN	6,000	0
Kentucky Power	KY	9,324	1,651
Louisville Gas & Electric	KY	6,800	0
Duke Energy	IN	8,211	43
Indiana-Michigan Power	IN	3,347	0
Ameren	MO	8,831	242
MidAmerican	IA	6,688	22
Alliant Energy	IA	5,139	9
<b>TOTAL*</b>		<b>516,611</b>	<b>90,022</b>

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

Sources:

DTE Energy: <http://www.dteenergy.com/residentialCustomers/problemsSafety/stormCenter/stormAlert.html>

Consumers Energy: [http://www.mlive.com/news/bay-city/index.ssf/2009/12/snow\\_knocks\\_out\\_power\\_for\\_4600.html](http://www.mlive.com/news/bay-city/index.ssf/2009/12/snow_knocks_out_power_for_4600.html)

[http://www.wzzm13.com/news/news\\_story.aspx?storyid=116567&catid=14](http://www.wzzm13.com/news/news_story.aspx?storyid=116567&catid=14)

<http://www.detnews.com/article/20091210/METRO/912100455/1361/13-000-without-power-as-Metro-Detroit-faces-more-snow--strong-winds>

Appalachian Power: <http://www.aepcustomer.com/outagemap/main.aspx?region=apco>  
<http://www.dailymail.com/News/200912090271>  
 Allegheny Power: [http://app.alleghenyenergy.com/outagestatus/OMS\\_Customer\\_State.aspx?Option=State&User=AEP](http://app.alleghenyenergy.com/outagestatus/OMS_Customer_State.aspx?Option=State&User=AEP)  
 AEP: <http://www.aepcustomer.com/outagemap/main.aspx?region=aepohio>  
 Bristol Virginia Utilities:  
[http://www2.tricity.com/tri/news/local/article/wind\\_and\\_rain\\_wallops\\_mountain\\_empire/37101/](http://www2.tricity.com/tri/news/local/article/wind_and_rain_wallops_mountain_empire/37101/)  
 Duke Energy Ohio and Kentucky: <http://www.duke-energy.com/ohio/outages/current.asp>  
 First Energy: <http://www.vindy.com/news/2009/dec/10/like-it-or-not-cold-weather-here-to-stay/?newswatch>  
<http://www.tribtoday.com/page/content.detail/id/530811.html?nav=5021>  
<http://www.wfmj.com/Global/story.asp?S=11653566>  
 South-Central Power: [http://www.southcentralpower.com/ow/ow\\_map.aspx](http://www.southcentralpower.com/ow/ow_map.aspx)  
 We Energies: <http://www.jsonline.com/news/milwaukee/78852682.html>  
<http://www.piercemyherald.com/event/article/id/22727/>  
<http://www.istockanalyst.com/article/viewiStockNews/articleid/3702658>  
<http://www.wfrv.com/news/local/story/700-in-Door-County-still-without-power-Thursday/EA2Zo0eX90uJcvL9DULqrw.csp>  
 Alliant: <http://www.alliantenergy.com/UtilityServices/StormOutageCenter/ElectricalOutageSummary/index.htm>  
 Wisconsin Public Service: <http://www.wisconsinpublicservice.com/outagesummary/view/outagegrid.aspx>  
 MG&E: <http://www.channel3000.com/news/21905038/detail.html>  
<http://www.channel3000.com/weather/21921880/detail.html>  
 Duquesne Light: [http://www.pittsburghlive.com/x/valleyindependent/s\\_657128.html](http://www.pittsburghlive.com/x/valleyindependent/s_657128.html)  
<http://www.thepittsburghchannel.com/news/21917930/detail.html>  
 Ameren Illinois: <https://www2.ameren.com/outagemap/default.aspx?state=IL>  
 ComEd: <http://www.kwqc.com/Global/story.asp?S=11649191>  
<http://www.comed.com/sites/customerservice/Pages/OutageMap.aspx>  
 Knoxville Utilities Board: [http://www.kgis.org/website/kub\\_outage/mainpage.htm](http://www.kgis.org/website/kub_outage/mainpage.htm)  
 Bristol Tennessee Essential Services:  
[http://www2.tricity.com/tri/news/local/article/wind\\_and\\_rain\\_wallops\\_mountain\\_empire/37101/](http://www2.tricity.com/tri/news/local/article/wind_and_rain_wallops_mountain_empire/37101/)  
 Greenville Light & Power: <http://www.greenevillesun.com/story/307052>  
 Kentucky Power: <http://www.aepcustomer.com/outagemap/main.aspx?region=kentucky>  
 Louisville Gas & Electric: <http://www.courier-journal.com/article/20091210/NEWS01/912100322/1008/Power+restored+to+LG&E+customers>  
 Duke Energy Indiana: <http://www.duke-energy.com/indiana/outages/current.asp>  
 Indiana-Michigan Power: <http://www.aepcustomer.com/outagemap/main.aspx?region=im>  
 Ameren Missouri: <https://www2.ameren.com/outagemap/default.aspx?state=MO>  
 MidAmerican: <http://www.midamericanenergy.com/storm/OutageWatch/MECOutageWatch.aspx>

## **Winds Knock Out Power to More than 35,000 Customers in Carolinas December 9**

Winds cut electricity to more than 27,000 Duke Energy customers in North and South Carolina, and more than 9,500 Progress Energy customers in North Carolina, news sources reported. Just 1,475 Progress Energy customers and fewer than 1,000 Duke Energy customers remained without power, as of latest reports.

Duke Energy: <http://www.duke-energy.com/outages/stats/>  
 Progress Energy: <http://progress-energy.com/shared/outages/car/default.aspx>  
<http://www.goupstate.com/article/20091210/ARTICLES/912101044/1051>  
<http://www.citizen-times.com/article/20091209/NEWS01/91208056/1009>  
<http://www.charlotteobserver.com/local/story/1115100.html>

## **Transmission Line Collapse Cuts Electricity Briefly to About 25,000 Oncor Customers in Texas December 5**

A transmission line collapsed for unknown reasons, damaging adjacent homes and cutting power briefly to approximately 25,000 Oncor customers in Arlington, Texas on December 5, a news source said.

[http://www.star-telegram.com/arlington\\_news/story/1819698.html](http://www.star-telegram.com/arlington_news/story/1819698.html)

## **APS's 1,243 MW Palo Verde Nuke Unit 2 in Arizona Reduced to 60 Percent by December 10**

The company slowed the unit to investigate a heated main transformer, a spokeswoman said. The Nuclear Regulatory Commission reported that on the morning of December 9 the unit was operating at full power.

<http://www.reuters.com/article/idUSN1013927320091210?type=marketsNews>

Information also derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2009/>

### **Southern Shuts 1,152 MW Vogtle Nuke Unit 1 in Georgia December 9**

The company shut the unit due to "high turbine vibration" on December 9, it said in a filing with the Nuclear Regulatory Commission (NRC). Operators had been returning the unit from a separate, unscheduled outage at the time of the incident, according to the filing. The NRC reported that on the morning of December 9 the unit was operating at 3 percent power.

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

Information also derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2009/>

### **Dominion's 917 MW North Anna Nuke Unit 2 in Virginia Shut December 9**

The unit shut automatically due to a downed transformer, the company said in a filing with the Nuclear Regulatory Commission (NRC). The NRC reported that on the morning of December 9 the unit was operating at full power.

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

Information also derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2009/>

### **Update: APS Returns 1,247 MW Palo Verde Nuke Unit 3 in Arizona to About 54 Percent Power by December 10**

The unit shut due to a valve malfunction by December 4, a news source said. The Nuclear Regulatory Commission reported that on the morning of December 9 the unit was operating at 12 percent power.

<http://www.reuters.com/article/idUSN1013927320091210?type=marketsNews>

Information also derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2009/>

### **Update: Entergy's 858 MW Arkansas Nuclear Unit 2 in Arkansas Ramped Up to 20 Percent by December 10**

Operators took the unit offline after a pump shutdown led to low steam generator levels on December 8, the company said in an earlier filing with the Nuclear Regulatory Commission (NRC). The NRC reported that on the morning of December 9 the unit was not operating.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/event/2009/20091209en.html>

Information also derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2009/>

### **Update: Mirant's 312 MW Pittsburg Gas-fired Unit 5 in California Returns to Service by December 9**

According to the California Independent System Operator, the unit reported a return from an unplanned outage.

<http://www.caiso.com/unitstatus/data/unitstatus200912091515.html>

### **Federal Judge Orders Invenergy to Obtain Wildlife Permit or Halt Work at Partly-Completed, Planned 186 MW Beech Ridge Wind Farm in West Virginia**

A federal judge has ordered Invenergy to halt construction on its partly-completed, proposed 186 MW Beech Ridge wind farm in West Virginia until the company receives a federal "incidental take permit" to operate the facility near an endangered bat species, multiple sources reported. "Like death and taxes, there is a virtual certainty that Indiana bats will be harmed, wounded, or killed imminently by the Beech Ridge Project," the judge said. The ruling allows Invenergy to operate 40 already-completed turbines during the winter months—when the bats hibernate—until it obtains authorization. The company expects to eventually construct 122 turbines. It plans to apply for the permit.

<http://online.wsj.com/article/BT-CO-20091209-713615.html>

<http://www.washingtonpost.com/wp-dyn/content/article/2009/12/09/AR2009120904106.html?hpid=sec-metro>

<http://www.awionline.org/ht/d/sp/i/16983/pid/16983>

### **Update: Caithness Energy Eyes 2012 Start-Date for 845 MW Shepherds Flat Wind Farm in Oregon**

The company expects to break ground in 2010 and complete the facility in 2012, according to a project supplier.

<http://www.genewscenter.com/content/detail.aspx?ReleaseID=9232&NewsAreaId=2>

## **American Renewables Plans 100 MW Biomass-fired Power Plant in Florida**

The company plans to begin construction in late 2010 and complete the project in about three years, according to a project affiliate.

<http://www.gru.com/OurCommunity/Environment/RenewableEnergy/biomassPlant.jsp>

## **Petroleum**

---

### **BP Resumes Normal Operations at 467,720 b/d Texas City, Texas Refinery December 8 after FCC Snag**

BP resumed normal operations within about six hours after a "loss of differential pressure on the standpipe aeration" triggered a fluid catalytic cracking unit (FCC) malfunction at its 467,720 b/d Texas City, Texas refinery on December 8, the company said in a filing with state regulators.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=133016>

<http://online.wsj.com/article/BT-CO-20091209-716328.html>

### **Update: Valero Restarts HDS at 315,000 b/d Corpus Christi, Texas Refinery December 9**

Valero restarted a hydrosulfurization unit (HDS) after a one-day shutdown at its 315,000 b/d Corpus Christi, Texas refinery from December 8-9, the company said. The incident had no impact to production, according to a spokeswoman. Valero shut Complex 1 and the HDS for unscheduled reasons on December 8, it said in an earlier filing with state regulators. The event triggered flaring.

<http://online.wsj.com/article/BT-CO-20091208-716421.html>

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=132988>

<http://www.caller.com/news/2009/dec/10/valero-restarts-refinery-unit-wednesday/>

### **Flint Hills Reports Unit Shutdown at 288,126 b/d Corpus Christi, Texas Refinery December 9**

A gas oil hydrotreater process unit shut after a possible vibration probe malfunction at Flint Hills Resources' 288,126 b/d Corpus Christi, Texas refinery on December 9, the company said in a filing with state regulators. The company expected to restart the unit from December 10-12, according to the filing. It was not clear if the incident had any impact to production.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=133052>

### **Boiler Shutdown Forces Offline Multiple Units at BP's 225,000 b/d Cherry Point, Washington Refinery December 9**

BP restarted a boiler at its 225,000 b/d Cherry Point, Washington refinery by December 10, one day after its shutdown forced offline multiple, unspecified units, sources familiar with the facility's operations said. The incident led operators to adjust plant rates, according to one source.

Reuters, 11:00 December 10, 2009

Bloomberg News, 12:08 December 10, 2009

### **Power Failure Shuts Equipment at ConocoPhillips' 146,000 b/d Borger, Texas Refinery December 9-10**

A power disruption forced shut unspecified equipment and triggered flaring at ConocoPhillips' 146,000 b/d Borger, Texas refinery on December 9-10, the company said in a filing with state regulators. It was not clear if the incident had any impact to production.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=133048>

## **Natural Gas**

---

### **BLM Halts Coal-bed Methane Drilling in Wyoming Region, Citing Potential Elk Impact**

The U.S. Bureau of Land Management (BLM) ordered a shutdown of coal-bed methane drilling in a section of the Powder River Basin in Wyoming, citing uncertainty over drillers' impact on the local elk population. The BLM said it would conduct an environmental assessment; that work could take as long as three weeks. Two companies—an Anadarko subsidiary and Williams—launched drilling operations over the summer. They had drilled approximately 125 wells, out of 250 planned, prior to the BLM's decision.

<http://www.google.com/hostednews/ap/article/ALeqM5iVNPOI7focZojHcHnkXFpowcEzQQD9CGHBIO1>

## Update: AGL Resources Plans 12 Bcf Expansion at Existing 7.5 Bcf Jefferson Island Natural Gas Storage Facility in Louisiana

The Louisiana Mineral and Energy Board approved a legal settlement between AGL Resources' subsidiary Jefferson Island Storage & Hub, LLC (JISH) and the state of Louisiana, allowing JISH to seek regulatory approval for a planned 12 Bcf expansion at its existing 7.5 natural gas storage facility in Louisiana, sources reported. The move came despite locals' concerns over the safety of the project. JISH agreed to limit its water withdrawals from a local water source, construct a barricade to protect nearby watercraft, and use the caverns only to store natural gas.

<http://www.theadvocate.com/news/acadiana/78934987.html>

<http://www.theadvertiser.com/article/20091210/NEWS01/912100320/1002/news01>

[http://www.aglresources.com/pressroom/news\\_details.aspx?releaseID=1364007&earn=1](http://www.aglresources.com/pressroom/news_details.aspx?releaseID=1364007&earn=1)

## Other News

---

### Department of Energy Offers \$245 Million Conditional Loan Guarantee to Red River Environmental Products for Planned Activated Carbon Facility in Louisiana

The company expects to produce 150 million pounds/year of activated carbon (AC). The AC, in turn, will remove 30,000 pounds of mercury from the flue gas of approximately 160 coal-fired power plants, the Department of Energy (DOE) said in a release.

<http://www.energy.gov/news2009/8379.htm>

### Alter NRG, Canadian Hydro Developers Plan Trash-to-Gas Facility and Associated Power Plant in Alberta, Canada

Alter NRG and Canadian Hydro Developers plan to convert 60,000-to-70,000 tonnes/year of trash into syngas, and use the resultant syngas to fuel a power plant in Alberta, Canada, according to a news source.

[http://www.citizen.on.ca/news/2009/1209/regional\\_news/035.html](http://www.citizen.on.ca/news/2009/1209/regional_news/035.html)

## Energy Prices

---

U.S. Oil and Gas Prices			
December 10, 2009			
	Today	Week Ago	Year Ago
<b>CRUDE OIL</b> <b>West Texas Intermediate U.S.</b> \$/Barrel	69.98	76.52	45.74
<b>NATURAL GAS</b> <b>Henry Hub</b> \$/Million Btu	5.27	4.67	5.57

Source: Reuters

## Energy Notes

---

### Substation Snag Cuts Power Briefly to about 20,000 KCP&L Customers in Missouri December 9

<http://www.stjoenews.net/news/2009/dec/10/widespread-power-outage-affects-20000-st-joseph/?local>

### Winter Storm, Winds Knock Out Electricity to about 14,000 CVPS Customers in Vermont December 9

<http://www.vermontbiz.com/news/december/winter-storm-high-winds-knock-out-power-14000-cvps-customers>



**Update: Human Error to Blame for Equipment Failure, Subsequent Shutdown of Grant County PUD's 956 MW Priest Rapids Hydroelectric Power Dam in Washington  
November 30**

<http://www.wenatcheeworld.com/news/2009/dec/09/dam-shutdown-comes-down-to-human-error/>

**Consultants to Begin Studying Possible 350-to-750 MW Wind Farm Offshore New York—  
Long Island-New York City Offshore Wind Collaborative Plans to Issue RFP in Spring  
2010**

MKW, 13:52 December 9, 2009

**NRC Says 37 of 172 Sirens Fail during Emergency Testing at Entergy Nuclear's Indian  
Point Nuclear Power Plant in New York December 9**

<http://www.wcax.com/Global/story.asp?S=11649144>

**Update: Tres Amigas, LLC Files with FERC for Planned Renewable Energy Transmission  
Hub in New Mexico December 9—"Tres Amigas SuperStation" Would Enable Power  
Transfers Across Three U.S. Power Grids**

[http://www.businesswire.com/portal/site/home/permalink/?ndmViewId=news\\_view&newsId=20091209005868&newsLang=en](http://www.businesswire.com/portal/site/home/permalink/?ndmViewId=news_view&newsId=20091209005868&newsLang=en)

**TVA Plans at Least \$1 Billion in Safety Improvements to Coal Ash Storage Facilities at 10  
Coal-fired Power in United States**

<http://www.timesfreepress.com/news/2009/dec/10/inspector-says-tva-finally-on-right-track-with/?local>  
<http://www.wbir.com/news/local/story.aspx?storyid=107341>

**Eleven Cyber-Attacks on U.S. Computer Networks during Third Quarter of 2009—  
Repository for Industrial Security Incidents**

[http://www.nextgov.com/nextgov/ng\\_20091208\\_4177.php?oref=topnews](http://www.nextgov.com/nextgov/ng_20091208_4177.php?oref=topnews)

**Pennsylvania Seeks Proposals for 3-Plus MW Wind Farms—State Offering \$19.8 Million  
in Funds for Projects with, at the Latest, an April, 2012 Start-Date**

<http://www.prnewswire.com/news-releases/pennsylvania-governor-rendell-nearly-20-million-in-federal-funding-available-to-spur-wind-energy-projects-generate-orders-for-manufacturers-78892042.html>

**Coal to Be Globe's Primary Power Source Through 2020 as China and India Expand Coal-  
fired Capacity**

<http://www.environmental-expert.com/resultEachPressRelease.aspx?cid=5122&codi=77025&lr=1>

**ExxonMobil Reports Liquid Sulfur Ignition, Flaring at 567,000 b/d Baytown, Texas  
Refinery December 9**

<http://www11.tceq.state.tx.us/oce/ee/index.cfm?fuseaction=main.getDetails&target=133051>

**Update: Pemex Aims to Boost Production to 40,000 b/d by Year's End from Existing 30,000  
b/d Chicontepec Basin in Mexico**

[http://www.rigzone.com/news/article.asp?a\\_id=83800](http://www.rigzone.com/news/article.asp?a_id=83800)

**Update: Talisman Energy Boosts Production to 26,000 b/d at Previous 11,600 b/d Varg  
Field Offshore Norway**

[http://www.rigzone.com/news/article.asp?a\\_id=83891](http://www.rigzone.com/news/article.asp?a_id=83891)

**Afren Says Ebok Block Offshore Nigeria Contains Estimated 93 Million Barrels of  
Recoverable Oil**

[http://www.rigzone.com/news/article.asp?a\\_id=83882](http://www.rigzone.com/news/article.asp?a_id=83882)

**Service Station Operators Sue ExxonMobil, Claiming Gas Price Manipulation**

<http://www.northjersey.com/news/business/78942447.html>

### **Ivanhoe Energy Says Ecuadorian Block Contains 4.3-12.1 Billion Barrels of Oil**

<http://www.prnewswire.com/news-releases/drilling-to-begin-in-ivanhoe-energys-pungarayacu-field-in-ecuador-78952102.html>

### **High Pressure, Valve Malfunction Trigger Engine Shutdown at McAlister Booster Station in Texas December 9-10**

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=133070>

### **Update: ExxonMobil Resumes Drilling on Two Wells at Point Thomson Natural Gas and Condensate Field in North Slope, Alaska by December 9—Company Eyes First Production in 2014**

[http://www.businesswire.com/portal/site/exxonmobil/index.jsp?ndmViewId=news\\_view&ndmConfigId=1001106&newsId=20091209005833&newsLang=en](http://www.businesswire.com/portal/site/exxonmobil/index.jsp?ndmViewId=news_view&ndmConfigId=1001106&newsId=20091209005833&newsLang=en)

### **Natural Gas Leak at Piedmont Natural Gas Pumping Station Triggers Brief Local Evacuations in North Carolina December 9**

<http://www.myfox8.com/wghp-robinhood-gas-leak-091209.0.4706925.story>

### **Xcel Repairing Potentially-Malfunctioning Natural Gas Pipeline Connectors in North Dakota**

[http://www.twincities.com/ci\\_13959327?nclick\\_check=1](http://www.twincities.com/ci_13959327?nclick_check=1)

### **InterOil Plans 2014-2015 Start-Date for 8 Million Ton/Year LNG Facility in Papua New Guinea**

<http://www.prnewswire.com/news-releases/government-of-papua-new-guinea-approves-interoils-lng-project-agreement-78948542.html>

### **Update: JH Kelly's Newly-Purchased 108 MMGal/Yr. Ethanol Plant near Clatskanie, Oregon Remains Offline December 9—Company to Either Sell or Restart Facility**

[http://www.tdn.com/news/article\\_10026e12-e543-11de-9ba7-001cc4c002e0.html](http://www.tdn.com/news/article_10026e12-e543-11de-9ba7-001cc4c002e0.html)

## **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)*