



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

ENERGY ASSURANCE DAILY

Thursday Evening, September 01, 2011

Major Developments

Update: Hurricane Irene Outages Drop Below 1 Million Mark by September 1

As of latest reports, about 880,000 customers remain without power due to Hurricane Irene, down from a peak of nearly 8.4 million. Connecticut Light & Power is the utility with the largest number of remaining outages. The supply of gasoline in Connecticut has also been reduced due to the shutdown of waterfront terminals in the state in advance of Irene's arrival. According to reports, nearly 30 percent of Connecticut's gas stations are without power and officials are encouraging residents not to buy extra gasoline.

For details on the impact of Hurricane Irene on customer outages, energy infrastructure issues and restoration efforts see: Hurricane Irene Situation Report #13, September 1, 2011 (3:00 P.M. EDT) issued by the U.S. Department of Energy, Office of Electricity Delivery & Energy Reliability, at the following URL: http://www.oe.netl.doe.gov/emergency_sit_rpt.aspx

| U.S. East Coast Customer Power Outages | | | |
|--|----------|---------|-----------------|
| August 27 – September 1, 2011 | | | |
| Electric Utility | State | Peak | Latest Reported |
| Connecticut Light & Power | CT | 671,000 | 213,133 |
| United Illuminating | CT | 158,130 | 33,578 |
| Delmarva Power | DE/MD | 210,000 | 159 |
| Delaware Electric Cooperative | DE | 1,328 | 2 |
| Pepco | DC | 30,424 | 45 |
| Bangor Hydro Electric | ME | 30,000 | 0 |
| Central Maine Power | ME | 187,000 | 12,000 |
| Allegheny Power | MD | 19,000 | 290 |
| Baltimore Gas and Electric | MD | 466,000 | 68,248 |
| Choptank Electric Coop | MD | 12,000 | 1 |
| Pepco | MD | 180,000 | 160 |
| Southern Maryland Electric Cooperative | MD | 108,809 | 6,621 |
| National Grid | MA | 500,000 | 36,231 |
| NSTAR | MA | 250,000 | 12,000 |
| Unitil | MA/NH | 27,000 | 0 |
| Western Massachusetts Electric | MA | 36,000 | 274 |
| National Grid | NH | 8,042 | 0 |
| New Hampshire Electric Coop | NH | 32,000 | 10 |
| Public Service of New Hampshire | NH | 125,000 | 1,600 |
| Atlantic City Electric | NJ | 140,000 | 325 |
| Jersey Central Power & Light | NJ | 670,000 | 58,730 |
| PSE&G | NJ | 392,000 | 15,000 |
| Orange & Rockland Utilities | NJ/NY/PA | 110,000 | 6,178 |
| Sussex Rural Electric Cooperative | NJ | 12,000 | 0 |
| Consolidated Edison | NY | 187,000 | 5,215 |
| LIPA | NY | 500,000 | 98,510 |
| National Grid | NY | 156,000 | 4,702 |
| NYSEG | NY | 134,000 | 31,400 |
| RGE | NY | 966 | 0 |
| Central Hudson Gas & Electric | NY | 115,000 | 23,296 |

| | | | |
|--|-------|------------------|----------------|
| Duke Energy | NC | 11,250 | 918 |
| Progress Energy | NC/SC | 280,000 | 2,336 |
| North Carolina's Electric Cooperatives | NC | 152,000 | 7,000 |
| ElectriCities | NC | 45,000 | 3,000 |
| Dominion North Carolina Power | NC | 72,346 | 13,845 |
| Met-Ed | PA | 200,000 | 8,592 |
| PECO | PA | 500,000 | 7,000 |
| Penelec | PA | 37,000 | 336 |
| PPL Electric Utilities | PA | 300,000 | 7,336 |
| UGI | PA | 32,000 | 2,400 |
| National Grid | RI | 340,000 | 46,974 |
| CVPS | VT | 70,000 | 3,333 |
| Green Mountain Power | VT | 37,841 | 307 |
| Vermont Electric Cooperative | VT | 8,000 | 1 |
| Dominion Virginia Power | VA | 785,000 | 147,138 |
| NOVEC | VA | 3,950 | 68 |
| A&N Electric Coop | VA | 3,400 | 3,400 |
| Northern Neck Coop | VA | 16,796 | 1,022 |
| Rappahannock Electric Coop | VA | 19,200 | 201 |
| TOTAL* | | 8,382,482 | 882,915 |

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

Sources:

Reuters, 16:14 August 31, 2011

http://www.downstreamtoday.com/news/article.aspx?a_id=27742

Connecticut Light & Power: <http://twitter.com/#!/CTLightandPower/status/108529164688179200> , <http://www.clp.com/outage/mobile.aspx>

United Illuminating: <http://www.uinet.com/storm/>

Delmarva Power: <http://www.delmarva.com/home/> , <http://www.delmarva.com/home/emergency/maps/stormcenter/>

Delaware Electric Cooperative: http://www.delaware.coop/outage_map.php , <http://twitter.com/DEElectricCoop>

Pepco: <http://www.pepco.com/home/emergency/maps/stormcenter/> , <http://www.wltz.com/story/15348868/power-outages-up-and-down-the-east-coast>

Bangor Hydro Electric: <http://www.bhe.com/about/outages.cfm#> ,

<http://twitter.com/#!/bangorhydro/status/108269665633058816> ,

<http://bangordailynews.com/2011/09/01/news/portland/storm-outages-down-to-12000-in-maine/?ref=latest>

Central Maine Power: <http://www.cmpco.com/OurCompany/News/2011/news110901b.html>

Allegheny Power: <http://www.alleghenypower.com/CSC/Services/PowerOutages.asp> ,

<https://www.firstenergycorp.com/content/customer/help/outages/storm.html>

Baltimore Gas and Electric: <http://www.bge.com/customerservice/stormsoutages/currentoutages/Pages/default.aspx> , http://files.shareholder.com/downloads/CEG/1386938549x0x494646/a2bf94e2-bdd0-465f-bf42-e415604ab46b/Release_8_BGE_Restores_Electric_Service_to_more_than_177000_Customers.pdf

Choptank Electric Coop: <http://www.choptankelectric.com/outages/index.html#> ,

<http://twitter.com/#!/choptankcoop/status/107998039884570624> ,

<http://www.choptankelectric.com/outages/list3.html>

Southern Maryland Electric Cooperative: <http://outage.smeco.coop/> ,

<https://www.smeco.coop/news/press/irene6amAug30.html>

National Grid: <http://www1.nationalgridus.com/niagaramohawk/stormcenter/> ,

<http://www1.nationalgridus.com/masselectric/stormcenter/> ,

<http://www1.nationalgridus.com/granitestate/stormcenter/> ,

<http://www1.nationalgridus.com/narragansett/stormcenter/> , http://www.nationalgridus.com/aboutus/a3-1_news2.asp?document=6335 , http://www.nationalgridus.com/aboutus/a3-1_news2.asp?document=6334 ,

http://www.nationalgridus.com/aboutus/a3-1_news2.asp?document=6333

NSTAR: <http://www.nstar.com/residential/> , <http://www.heraldnews.com/news/hurricane-irene/x865771197/After-the-storm-towns-steamed-at-utilities-slow-response>

Unitil: <http://www.unitil.com/outage-center/outage-updates> ,

<https://twitter.com/#!/Unitil/status/108204972054810624>

Western Massachusetts Electric:

<http://nuwnotes1.nu.com/apps/wmeco/webcontent.nsf/0/509C29CB1AD9D229852578FC005BF382?opendocument>

, <http://www.wmeco.com/outage/OutageMap.aspx> ,

<http://nuwnotes1.nu.com/apps/wmeco/webcontent.nsf/0/509C29CB1AD9D229852578FC005BF382?opendocument>

New Hampshire Electric Coop: <http://www.nhec.com/oms.php> , http://www.nhec.com/news_archive.php?n=114

Public Service of New Hampshire: <http://www.psnhnews.com/latestnews.cfm?lnid=219> ,
<http://twitter.com/#!/psnh/status/109070875621462016>
Atlantic City Electric: <http://www.atlanticcityelectric.com/welcome/news/releases/archives/2011/article.aspx?cid=1840> ,
<http://www.atlanticcityelectric.com/home/emergency/maps/stormcenter/>
Jersey Central Power & Light: <http://www.marketwatch.com/story/firstenergy-utilities-restore-power-to-more-than-500000-customers-affected-by-hurricane-irene-2011-08-29> ,
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<http://www.pseg.com/info/media/newsreleases/2011/2011-08-30.jsp> ,
<http://www.pseg.com/info/media/newsreleases/2011/2011-08-31.jsp> ,
<http://www.pseg.com/info/media/newsreleases/2011/2011-09-01.jsp>
Orange & Rockland Utilities: <http://www.oru.com/advisories/?id=530> ,
http://wp1.coned.com/or_stormcenter/default.aspx
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<http://twitter.com/#!/SussexREC/status/108530389697568768> ,
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Consolidated Edison: <http://apps.coned.com/weboutageinfo/stormcenter/default.aspx> ,
http://abclocal.go.com/wabc/story?section=news/local/new_york&id=8324736
LIPA: <http://www.lipower.org/stormcenter/outagemap.html> , <http://www.lipower.org/newscenter/pr/2011/082811-irene.html>
NYSEG: <http://www.nyseg.com/Outages/outageinformation.html> ,
<http://www.nyseg.com/OurCompany/News/2011/083011Irene11am.html> ,
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Duke Energy: <http://www.duke-energy.com/north-carolina/outages/current.asp> ,
<http://www.bloomberg.com/news/2011-08-27/hurricane-irene-crosses-north-carolina-coast-as-winds-slow-to-category-one.html>
Progress Energy: <https://www.progress-energy.com/company/media-room/news-archive/press-release.page?title=Progress+Energy+aiming+for+96%25+restoration+by+midnight+tonight%2C+99%25+Thursday+pubdate=08-30-2011> , <https://www.progress-energy.com/app/outagemaps/carolinas.aspx>
North Carolina's Electric Cooperatives: <http://www.ncemcs.com/news/releases/storms/Irene11082911.htm> ,
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ElectriCities: <http://www.guc.com/stormcentral/OutagesEmergencies.aspx> ,
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UGI: http://www.ugi.com/portal/page/portal/UGI_Content/About%20Us/Newsroom/News_Electric_082911 ,
http://www.ugi.com/portal/page/portal/UGI_Content/About%20Us/Newsroom/News_Electric_083011 ,
<http://www.webwire.com/ViewPressRel.asp?aId=144693> ,
http://www.ugi.com/portal/page/portal/UGI_Content/About%20Us/Newsroom/News_Electric_090111

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http://www.cvps.com/AboutUs/news/viewStory.aspx?story_id=364 ,
http://www.cvps.com/AboutUs/news/viewStory.aspx?story_id=365 , <http://www.cnb.com/id/44327881>
Green Mountain Power: www.vtoutages.org
Vermont Electric Cooperative: <http://www.vermontelectric.coop/component/content/article/252-vermont-electric-coop-crews-tackle-irenes-damage> , www.vtoutages.org
Dominion Virginia Power: <http://www.dom.com/storm-center/dominion-electric-outage-summary.jsp> ,
<http://dom.mediaroom.com/index.php?s=43&item=1020> , <http://twitter.com/DomVAPower>
NOVEC: http://www.novec.com/About_NOVEC/News_Release/nr082511.cfm ,
<http://stormcenter.novec.com/index.cfm?CFID=296851&CFTOKEN=42666978>
A&N Electric Coop: <http://www.delmarvanow.com/article/20110829/NEWS01/110829026/HURRICANE-IRENE-Eastern-Shore-is-relieved-after-brush-with-deadly-storm?odyssey=mod|newswell|text|Eastern%20Shore%20News>
Northern Neck Coop: <http://outages.nnec.coop/> , <http://www.nnec.coop/Articles/irene4.aspx>
Rappahannock Electric Coop: <http://www.myrec.coop/outage-center/outage-summary.cfm> ,
<http://www.myrec.coop/outage-center/outage-map.cfm>

Electricity

Update: Constellation's 825 MW Calvert Cliffs Nuclear Unit 1 in Maryland at Full Power while the Company's 835 MW Unit 2 Is Reduced to 88 Percent by September 1

According to a company press release, unit 1 was on its way back to 100 percent power after being down due to the effects of Hurricane Irene. The Nuclear Regulatory Commission (NRC) reported that on the morning of August 31 unit 1 was operating at 2 percent. Unit 2 was reduced over the same time period for unspecified reasons. The NRC reported that on the morning of August 31 unit 2 was operating at full power.

<http://ir.constellation.com/releasedetail.cfm?ReleaseID=602612>

Information also derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2011/>

Update: PSE&G's 1,096 MW Salem Nuclear Unit 1 in New Jersey Ramped Up to 80 Percent by September 1; Company's 1,092 MW Unit 2 Reduced to 90 Percent by August 31

According to reports, both units were reduced by August 31 when debris in the Delaware River from Hurricane Irene clogged the intake system at the plant. Unit 1 had been reduced to 62 percent before beginning to ramp up, while unit 2 was reduced to 90 percent. The Nuclear Regulatory Commission reported that on the morning of August 31 unit 1 was operating at 69 percent, while unit 2 was operating at full power.

Reuters, 19:55 August 31, 2011

Information also derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2011/>

Southern's 1,152 MW Vogtle Nuclear Unit 1 in Georgia Shut August 31-September 1

The unit shut at 9:06 a.m. EDT while workers were performing equipment maintenance. The cause of the shutdown is under investigation. The Nuclear Regulatory Commission reported that on the morning of August 31 the unit was operating at full power.

http://www.southerncompany.com/news/dyn_pressroom.aspx?s=43&item=2391

Information also derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2011/>

Update: Ace Cogeneration's 118 MW Ace Cogeneration Coal-fired Unit in California Returns to Service by August 31

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

<http://content.caiso.com/unitstatus/data/unitstatus201108311515.html>

Terra-Gen's 150 MW Alta Wind Energy Center Unit 3 in California Shut by August 31

According to the California Independent System Operator, the unit reported a planned outage on August 31.

<http://content.caiso.com/unitstatus/data/unitstatus201108311515.html>

Update: Luminant's 617 MW Big Brown Coal-Fired Unit 1 in Texas Trips Offline Due to Blown Fuse August 30

Operators had previously reported that the unit was starting up following a boiler tube repair. Operators plan to restart the unit immediately.

<http://www11.tceq.state.tx.us/oce/eeer/index.cfm?fuseaction=main.getDetails&target=158696>

MidAmerican Energy Completes 29.9 MW Wind Farm Expansion near Pomeroy, Iowa by August 31

The expansion consists of 13 wind turbines.

<http://www.midamericanenergy.com/wind/news.aspx>

NRC Approves Rule Requiring Updated Evacuation Plans for Nuclear Plants August 30

The Nuclear Regulatory Commission (NRC) approved a new rule on Tuesday requiring that operators to submit updated estimates of evacuation times for communities near their nuclear power plants after every decennial census, or when population growth increases estimated evacuation time by 30 minutes.

<http://news.yahoo.com/nrc-evacuation-plans-near-nuclear-plants-225104304.html>

Update: ERCOT Says EPA's Cross-State Air Pollution Rule Will Reduce Power Supply in Texas by 1,200-6,000 MW or More in Report Issued September 1

According to the Electric Reliability Council of Texas (ERCOT), the new U.S. Environmental Protection Agency (EPA) regulation will force many coal-fired power plants to reduce operating time, thereby increasing the likelihood of summer and fall power outages. The report said that the implementation date of the new rule "does not provide ERCOT and its resource owners a meaningful window for taking steps to avoid the loss of thousands of megawatts of capacity, and the attendant risks of outages."

Reuters, 11:34 September 1, 2011

http://www.ercot.com/content/news/presentations/2011/ERCOT_CSAPR_Study.pdf

<http://www.power-eng.com/articles/2011/08/ercot-says-reliability-at-risk-due-to-epa-rule.html>

Update: Last Week's Earthquake Moved Casks Containing Radioactive Nuclear Waste as Much as 4.5 Inches at Dominion's 1,842 MW North Anna Nuclear Plant in Virginia

The 5.8-magnitude earthquake shifted 25 different 115-ton casks on a concrete pad, according to operators. There was no damage to the casks or the fuel.

Reuters, 09:11 September 1, 2011

Petroleum

Companies Evacuating Platforms in the Gulf of Mexico Due to "Tropical Disturbance 35" August 31-September 1

BP evacuated platforms in the Southern Green Canyon area, including the Mad Dog, Holstein, Atlantis, Nakika, and Thunderhorse platforms. It is the first company in the region to evacuate all types of personnel, and will likely be forced to shut in production. Chevron, Apache, and Anadarko are also removing non-essential personnel from the area. Chevron and Apache said that the evacuations have not impacted production.

DJN, 11:26 September 1, 2011

<http://yourweatherblog.com/2011/09/a-hurricane-in-the-central-gulf-this-weekend%E2%80%A6chances-are-increasing/>

Construction Crew Ruptures Diesel Pipeline, Spilling 24,000 Gallons in East Providence, Rhode Island August 31

The incident, which started at about 9 a.m. EDT, sent fuel shooting 40 feet into the air and onto trees and building roofs. Businesses were evacuated as a result. The spill has been contained.

<http://www2.turnto10.com/news/2011/aug/31/15/hazmat-east-providence-ar-714324/>

http://www.projo.com/news/environment/content/EAST_PROVIDENCE_OIL_SPILL_09-01-11_H8Q2RK7_v54.62d12.html

Magellan Midstream Plans to Reverse Houston-to-El Paso Oil Pipeline September 1

The reversed pipeline will carry West Texas crude oil to the refiners in the U.S. Gulf Coast and bypass the glut of crude in Cushing, Oklahoma. The pipeline currently carries finished fuels in the other direction. The company plans to complete the reversal of direction by mid-2013.

Reuters, 11:48 September 1, 2011

Update: Colonial Pipeline Shuts Two Segments of Fuels Pipeline in North Carolina and Virginia for Inspections Following 3.4-Magnitude Aftershock September 1

The company shut the mainline north of Greensboro, North Carolina, as well as a stub line in Virginia as a precaution.

DJN, 09:20 September 1, 2011

Line Crack Causes Benzene Release at PBF's 160,000 b/d Paulsboro, New Jersey Refinery by September 1

According to a company filing, the line has been blocked and the release was secured. One mechanic was exposed to the released materials.

Reuters, 00:24 September 1, 2011

Natural Gas

"Tropical Disturbance 35" Causes Natural Gas Infrastructure Disruptions in Gulf of Mexico September 1

The tropical disturbance has caused the following impacts:

- Southern Natural Gas has reduced supply by an estimated 43 MMcf/d. Following the storm and depending on its severity, Southern will determine if site visits to potentially impacted meter stations are required prior to restoring flow.
- Stingray Pipeline Company has begun removing personnel from the West Cameron 509 field, after which point the facility will be in bypass mode. During this period Stingray shippers may experience higher than normal operating pressures.
- Venice Gathering System, LLC has reported force majeure due to current weather conditions. Completion of ongoing work on a 22-inch gas line may be delayed by at least 24 hours.

<http://yourweatherblog.com/2011/09/a-hurricane-in-the-central-gulf-this-weekend%E2%80%A6chances-are-increasing/>

<http://ixsnp.sonetpremier.com/ebbmastertable/Notices/NoticesAutoTable.aspx?code=SNG&status=Notice&name=Critical%20Notices&sParam1=007&sParam7=31291&sParam11=D&details=Y>

<http://apps.enbridgeus.com/ENotices/NoticeEntryPage.aspx?selnoticecode=stry2011244.105041>

<http://www.venicegathering.com/ViewNotice.aspx?id=173>

Oil Sands Growth in Canada Will Lead to Increased Natural Gas Consumption: Ziff Energy Group

According to Ziff Energy Group, rapid expansion of Canada's oil sands will lead to a dramatic increase in the usage of natural gas produced in Alberta. The oil sands are expected to more than double output between now and 2020.

<http://www.theglobeandmail.com/report-on-business/industry-news/energy-and-resources/amid-oil-sands-growth-a-boom-for-natural-gas/article2149379/>

Other News

Nothing to report.

Energy Prices

| U.S. Oil and Gas Prices September 1, 2011 | | | |
|--|-------|----------|----------|
| | Today | Week Ago | Year Ago |
| CRUDE OIL West Texas Intermediate U.S. \$/Barrel | 88.81 | 84.26 | 74.00 |
| NATURAL GAS Henry Hub \$/Million Btu | 3.97 | 4.10 | 3.80 |

Source: Reuters

Energy Notes

Update: NRG Solar Commences Operations at 20 MW Roadrunner Solar Generating Facility in New Mexico August 31

<http://phx.corporate-ir.net/External.File?item=UGFyZW50SUQ9MTA1ODg5fENoaWxkSUQ9LTF8VHlwZT0z&t=1>

Thieves Steal 175,000 Feet of Copper Wiring from 100 I-95 Light Poles over Four to Six Months in Palm Beach County, Florida; 30 Lights in Miami-Dade County Also Targeted

<http://miami.cbslocal.com/2011/08/29/copper-thieves-leave-i-95-in-palm-beach-co-in-the-dark/>

Line Leaks Vapor but Causes No Impact on Output at Imperial Oil's 121,000 b/d Sarnia, Ontario Refinery August 31

Reuters, 12:45 August 31, 2011

Update: Citing Potential Aquifer Damage, Nebraska Governor Requests Federal Government Deny Permit to TransCanada's Proposed Alberta-to-Texas Keystone XL Oil Pipeline

http://www.downstreamtoday.com/news/article.aspx?a_id=27744

Several Roads Closed After Natural Gas Line Hit in Downtown Colorado Springs, Colorado August 31 – The Line Has Since Been Repaired

<http://www.coloradoconnection.com/news/story.aspx?id=658003#.Tl-MxF1CHTp>

Contractor Hits PSNC Natural Gas Pipeline in Raleigh, North Carolina, Causing Leak and Forcing Brief Road Closure August 31

<http://abclocal.go.com/wtvd/story?section=news/local&id=8336770>

DOE Announces Up to \$12 Million in Investments to Support Development and Production of Drop-In Biofuels August 31 – Money Will Fund Three Projects in Illinois, Wisconsin, and North Carolina

<http://energy.gov/articles/departments-energy-announces-12-million-investments-support-development-and-production-drop>

Update: TVA May Spend Over \$10 Million on New Inspections at Browns Ferry Nuclear Plant in Alabama in Wake of Recent “Red” NRC Inspection Rating

<http://www.timesfreepress.com/news/2011/aug/31/nuclear-plants-red-rating-to-cost-tva/>

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

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

Natural Gas Weekly Update from EIA

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

Updated after 2:00 PM EDT 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