



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

ENERGY ASSURANCE DAILY

Tuesday Evening, August 30, 2011

Major Developments

Over 2.7 Million Still without Power across the East Coast after Hurricane Irene August 30

Hurricane Irene initially made landfall on Puerto Rico as a Category 1 hurricane on Monday August 22 and reached the mainland at Cape Lookout, NC as a Category 1 hurricane at 8:00 am EDT August 27. As the storm moved north, a state of emergency was declared in thirteen states and the District of Columbia. Dozens of utilities reported today that over 2.72 million customers remain without power from the Carolinas up to Maine, down from a peak of about 8.35 million. In Canada, 16,000 Quebec customers are still without power, as are 5,000 NB Power customers in New Brunswick. Many utilities predicted that full restoration will come by this weekend. While much effort is concentrated on restoring electric service, the restoration of power plants, refineries, petroleum terminals, and ports is also well underway. According to Bloomberg, ConocoPhillips reported flaring as it attempted to restart its 238,000 b/d Bayway refinery in Linden, New Jersey. There is also a report of at least one fuel spill due to the hurricane. According to officials, 10,000-15,000 gallons of diesel fuel spilled into the Ramapo River August 28-29 when an SOS Xtreme Comfort fuel facility in Tuxedo, New York was damaged after a dam in Arden, New York was breached during the hurricane.

For details on the impact of Hurricane Irene on customer outages, energy infrastructure issues and restoration efforts see: Hurricane Irene Situation Report #9, August 30, 2011 (3:00 PM 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 – 29, 2011			
Electric Utility	State	Peak	Latest Reported
Connecticut Light & Power	CT	671,000	397,957
United Illuminating	CT	158,130	82,945
Delmarva Power	DE/MD	210,000	6,996
Delaware Electric Cooperative	DE	1,328	3
Pepco	DC	30,424	2,834
Bangor Hydro Electric	ME	30,000	995
Central Maine Power	ME	187,000	88,000
Allegheny Power	MD	2,013	39
Baltimore Gas and Electric	MD	466,000	221,693
Choptank Electric Coop	MD	12,000	2
Pepco	MD	180,000	7,540
Southern Maryland Electric Cooperative	MD	108,809	25,105
National Grid	MA	500,000	155,134
NSTAR	MA	250,000	84,000
Unitil	MA/NH	27,000	0
Western Massachusetts Electric	MA	36,000	196
National Grid	NH	8,042	3
New Hampshire Electric Coop	NH	32,000	1,053
Public Service of New Hampshire	NH	125,000	31,000
Atlantic City Electric	NJ	140,000	9,497
Jersey Central Power & Light	NJ	670,000	240,000
PSE&G	NJ	392,000	67,000
Orange & Rockland Utilities	NJ/NY/PA	110,000	24,793

Sussex Rural Electric Cooperative	NJ	12,000	1,000
Consolidated Edison	NY	187,000	34,760
LIPA	NY	500,000	270,264
National Grid	NY	156,000	43,902
NYSEG	NY	134,000	91,000
RGE	NY	966	44
Central Hudson Gas & Electric	NY	115,000	51,585
Duke Energy	NC	11,250	794
Progress Energy	NC/SC	280,000	42,548
North Carolina's Electric Cooperatives	NC	152,000	34,000
ElectriCities	NC	36,000	28,500
Dominion North Carolina Power	NC	72,346	36,111
Met-Ed	PA	197,000	35,000
PECO	PA	500,000	38,000
Penelec	PA	37,000	7,000
PPL Electric Utilities	PA	300,000	42,203
UGI	PA	32,000	5,200
National Grid	RI	340,000	141,216
CVPS	VT	70,000	19,400
Green Mountain Power	VT	37,841	671
Vermont Electric Cooperative	VT	8,000	680
Dominion Virginia Power	VA	785,000	338,009
NOVEC	VA	3,950	0
A&N Electric Coop	VA	3,400	3,400
Northern Neck Coop	VA	16,796	7,812
Rappahannock Electric Coop	VA	19,200	3,790
TOTAL*		8,353,495	2,723,674

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

Sources:

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http://www.northjersey.com/news/082911_Possible_oil_spill_in_Ramapo_River.html?page=all

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

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

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Central Maine Power: <http://www.cmpco.com/OurCompany/News/2011/news110830b.html>

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

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

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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?Inid=217>

Atlantic City Electric:

<http://www.atlanticcityelectric.com/welcome/news/releases/archives/2011/article.aspx?cid=1840> , <http://www.atlanticcityelectric.com/home/emergency/maps/stormcenter/>

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Sussex Rural Electric Cooperative: <http://www.njherald.com/story/news/Weather-update-Irene-8-29-2011> ,

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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|s>
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>

Update: PREPA Reports 10,843 Customers Still Lack Power in Puerto Rico Following Hurricane Irene as of August 29

<http://www.prepa.com/spanish.asp?url=http://www.aeepr.com/noticias.asp>

Electricity

Update: Following Irene-Related Shutdown, Exelon's 619 MW Oyster Creek Nuclear Unit in New Jersey Ramped Up to 30 Percent by August 30

The plant began to restart after inspections showed no Hurricane Irene-related damage at the plant. Operators shut the plant beginning on August 27 in advance of the storm as a precaution. The Nuclear Regulatory Commission reported that on the morning of August 29 the unit was operating at 1 percent.

<http://www.app.com/article/20110829/NJNEWS/308290090/Oyster-Creek-powers-back-up>
<http://www.sfgate.com/cgi-bin/article.cgi?f=/g/a/2011/08/28/bloomberg1376-LQNH4L0UQVI901-1IH29PKKOCFEKPOFR4IF715JUD.DTL>

Information derived from the NRC Power Reactor Status Reports:

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

Units Boost Output at Dominion's Millstone Nuclear Plant in Connecticut by August 30

The 871 MW unit 2 reached full power by August 30, while the 1,130 MW unit 3 ramped up to 93 percent by the same date. The Nuclear Regulatory Commission reported that on the morning of August 29 unit 2 was operating at 50 percent while unit 3 was operating at 66 percent.

Information derived from the NRC Power Reactor Status Reports:

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

Update: TVA's 1,125 MW Watts Bar Nuclear Unit 1 in Tennessee at Full Power by August 30

The Nuclear Regulatory Commission reported that on the morning of August 29 the unit was operating at 89 percent.

Information derived from the NRC Power Reactor Status Reports:

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

Update: Xcel's 578 MW Monticello Nuclear Unit in Minnesota Ramped Up to 97 Percent by August 30

The Nuclear Regulatory Commission reported that on the morning of August 29 the unit was operating at 48 percent.

Information derived from the NRC Power Reactor Status Reports:

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

Unit 1 Shuts as Unit 3 Returns to Service at La Paloma Generating Company's La Paloma Gas Fired Plant in California by August 29

According to the California Independent System Operator, the 260 MW gas-fired unit 1 reported an unplanned outage on August 29, while the 256 MW gas-fired unit 3 reported a return from an unplanned outage.

<http://content.aiso.com/unitstatus/data/unitstatus201108291515.html>

Update: Operators Terminate Flooding Notification at OPPD's 478 MW Fort Calhoun Nuclear Unit in Nebraska August 29

The Omaha Public Power District (OPPD) originally filed a Notification of Unusual Event with the Nuclear Regulatory Commission on June 6 due to flooding along the Missouri River. Operators have already begun removing flood barriers. The plant was shut in April for refueling, and has remained shut since.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/event/2011/20110830en.html>

<http://www.sunherald.com/2011/08/29/3383909/nebraska-nuclear-plant-ends-flood.html>

NRC Criticizes Operators for "Highly Radioactive" Coolant Water Leak during 2009 Refueling at Entergy's 1,075 MW Waterford Nuclear Unit 3 in Louisiana

In a preliminary finding made public August 25, the Nuclear Regulatory Commission (NRC) faulted plant operators for failing to prevent radioactive water from leaking around the reactor coolant pumps, even though operators knew that the condition could occur. The incident exposed workers to radiation.

http://www.nola.com/politics/index.ssf/2011/08/entergy_questioned_on_2009_wat.html

Petroleum

Explosions Reported at Latch Oil Pumping Station in Jasper County, Texas August 26

The series of explosions required the hospitalization of one person. It is not clear what caused the explosion.

<http://www.ktre.com/story/15342237/fire-erupts-at-jasper-county-oil-plant>

<http://www.beaumontenterprise.com/news/article/Update-TX-63-W-closed-for-two-miles-due-to-2143199.php>

ConocoPhillips Restarts 16-Inch Crude Pipeline in California after Shutting it Due to a Leak on August 28

The pipeline was struck by a third party on August 27, causing the leak. The pipeline feeds the company's 120,200 b/d Rodeo, California refinery. It is not clear if there was an impact on the refinery.

<http://www.sfgate.com/cgi-bin/article.cgi?f=/g/a/2011/08/27/bloomberg1376-LQNCTS1A74E901-0GAO2K405O4QDS7FOGMRP6V7TK.DTL&ST=1>

<http://af.reuters.com/article/energyOilNews/idAFWEN772820110830>

Update: Plains All American Pipeline to Restart 187,000 b/d Rainbow Oil Pipeline in Alberta August 30

The company received final regulatory approval to restart the pipeline after it ruptured April 28 and leaked 28,000 barrels of crude April 28. As a condition of the restart, the company will operate the line at 75 percent of its maximum pressure.

<http://www.reuters.com/article/2011/08/29/plainsallamerican-rainbow-idUSN1E77S0XV20110829?feedType=RSS&feedName=companyNews>

Update: Fighting Causes Fire at Waha Oil's 450,000 b/d Es-Sider Oil Terminal in Libya

According to Reuters, flames and black smoke were reported coming from at least one tank. According to one oil worker, the tank is likely to be "damaged completely" by the fire, which has possibly been burning for days. The terminal has a storage capacity of 6.3 million barrels of crude, and loaded an average of 450,000 b/d before fighting between rebels and the Gadhafi's government forces began in February.

<http://www.reuters.com/article/2011/08/30/us-libya-oil-tanks-idUSTRE77T1JZ20110830>

OPEC August Crude Output Expected to Reach Highest Level in Nearly Three Years

According to a Reuters survey that included OPEC officials, oil companies, and analysts, OPEC's August production is expected to total 30.15 MM b/d, increasing from 30.07 MM b/d in July. Increased production from Nigeria and, to a lesser extent, from Saudi Arabia will more than offset declines from Iran, Libya, Angola, and Iraq, pushing the August production total to the highest level since October 2008.

Reuters, 08:57 August 30, 2011

Petroecuador's July Production Jumps to 9.4 Million Barrels Compared to 6.7 Million Barrels in July Last Year

Production by the state-owned Petroecuador accounts for approximately 70 percent of total oil production in the country. Ecuador currently produces about 500,000 b/d, but the total is expected to increase to 526,000 b/d in 2012 and 600,000 b/d in 2013.

Reuters, 19:04 August 29, 2011

Natural Gas

Destin Pipeline Declares Force Majeure Affecting All Natural Gas Production Offshore U.S. Gulf Coast August 30

The company announced that it is experiencing operational problems that impact all offshore production. The company is unable to provide natural gas transportation services for its customers and has declared force majeure which will remain in effect until further notice.

<http://www.destin-pipeline.com/>

<http://btplgasnoms2.com/enotice/CriticalDetail.aspx?codeKey=des2011242.104650>

Other News

Dominion Terminal Associates Sees Minimal Damage at Virginia Coal Export Terminal Due to Hurricane Irene

The company expected operations at the facility would resume late on August 29. Dominion Terminal Associates is jointly owned by Peabody, Arch Coal, and Alpha Natural Resources.

Reuters, 13:39 August 29, 2011

Energy Prices

U.S. Oil and Gas Prices			
August 30, 2011			
	Today	Week Ago	Year Ago
CRUDE OIL West Texas Intermediate U.S. \$/Barrel	87.27	85.71	74.55
NATURAL GAS Henry Hub \$/Million Btu	3.93	3.97	3.75

Source: Reuters

Energy Notes

Copper Theft at SCE Substation Knocks Out Power to 25,000 People in California for Under Two Hours August 26

http://www.sbsun.com/ci_18767393?source=most_viewed

Copper Theft from Substation Leaves 7,000 Pacific Power Customers in Oregon without Power for 10 Hours August 28

<http://kezi.com/news/local/222487>

Gilco Transportation Tanker Truck Carrying 7,200 Gallons of Diesel Rolls Over, Shutting U.S. 6 and Spilling 4,000 Gallons into Clear Creek in Colorado August 27

http://www.denverpost.com/news/ci_18773662

Electric Companies Planning to Invest \$4.1 Billion in Industrial Control System Cybersecurity 2011-2018: Pike Research

<http://www.infosecurity-us.com/view/20382>

Update: Eni Signs MOU with Libyan National Transitional Council August 29, Paving Way to Restarting O&G Operations in Libya

http://www.rigzone.com/news/article.asp?a_id=110573

Honeywell Starts Construction of Biofuels Demonstration Plant Located at Tesoro's 93,500 b/d Kapolei, Hawaii Refinery by August 30 – Plant Backed by \$25 Million DOE Award

<http://honeywell.com/News/Pages/Honeywell%27s-UOP-Breaks-Ground-on-Facility-to-Convert-Biomass-to-Green-Transportation-Fuels.aspx>

Operators Shut Inlet Gas Compressor-4 for Five Hours to Repair Broken Sample Line Nipple at Wasson CO2 Removal Plant in Texas August 29

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=158620>

Units Shut for Hours after Boilers #3 and #4 Go Offline on Low Fuel Pressure at Copano Processing's Houston Central Gas Plant in Texas August 29

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=158622>

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>

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