



U.S. Department of Energy
Office of Electricity Delivery & Energy Reliability

Hurricane Sandy Situation Report # 16

November 5, 2012 (10:00 AM EST)

http://www.oe.netl.doe.gov/emergency_sit_rpt.aspx

Highlights:

- At 8:00 pm EDT October 29, the National Hurricane Center reported Sandy made landfall near Atlantic City, NJ as a post tropical cyclone.
- As of 9:00 am EST November 5, there are 1,374,676 customers without power in the affected States. 7,136,575 customers have been restored out of the 8,511,251 combined total peak outages reported in the Situation Reports for all 21 States affected. Restoration estimates and efforts by electric utilities are reported below.

Summary

Electric Outages by State				
Impacted State	Current Customer Outages	Percentage of Customers Without Power	Peak Outages Reported in DOE SitReps	Customers Restored Since Peak
Connecticut	33,868	2%	626,559	592,691
Maryland	4,884	< 1%	311,020	306,136
New Jersey	779,779	20%	2,615,291	1,835,512
New York	487,952	6%	2,097,933	1,609,981
Ohio	1,104	< 1%	267,323	266,219
Pennsylvania	29,318	< 1%	1,267,512	1,238,194
West Virginia	37,771	4%	271,765	233,994
TOTAL:	1,374,676			

Note: States with fewer than 1,000 outages are not included in the table. Due to a large number of service providers, including investor owned utilities and cooperatives, the number of customer outages reported may not be comprehensive. Customer outages are representative of specific Situation Report reference dates and times.

Sources: Outages obtained from company web sites and DOE communications. Total State customers are based on 2011 EIA Customer Data.

- Yesterday (November 4) the Energy Information Administration (EIA) updated its report on the Retail Motor Gasoline Supply in the New York City Metropolitan Area. EIA estimated, based on an emergency survey of gasoline availability, that 27 percent of gas stations in the New York Metropolitan area do not have gasoline available for sale. This is a decrease from the 38 percent which EIA estimated did not have gasoline available for sale on November 3. The full results and the methodology can be found at: http://www.eia.gov/special/disruptions/hurricane/sandy/gasoline_updates.cfm.
- Over 100 personnel and equipment from the US Department of Energy’s Power Marketing Administrations are scheduled to be assisting in the Hurricane Sandy restoration efforts.

ESF 12 Actions:

- ESF 12 is staffing the FEMA National Response Coordination Center (NRCC) in Washington, DC; the FEMA Region I Regional Response Coordination Center (RRCC) in Hartford, CT, the FEMA



Region II RRCC in Colts Neck, NJ, New Jersey State EOC in West Trenton, NJ, and the New York State EOC in Albany, NY.

Petroleum & Natural Gas Information:

Refineries

- A list of refineries impacted by Hurricane Sandy is presented in the table below.

Refineries in the Path of Sandy as of 8:00 am EST 11/5/12						
Refinery	Location	Capacity (B/D)				
		Operating Capacity*	Shut Down	Restarting	Reduced Runs	Normal
Hess*	Port Reading, NJ	70,000	X			
Monroe Energy	Trainer, PA	185,000				X
PBF	Delaware City, DE	182,200				X
PBF	Paulsboro, NJ	160,000				X
Philadelphia Energy Solutions (Sunoco)	Philadelphia, PA	335,000			X	
Phillips 66	Linden, NJ	238,000	X			
TOTAL		1,170,200	308,000	0	335,000	527,200

Note: The table does not include asphalt refineries or facilities already closed in prior years.

*The Hess Port Reading, NJ facility does not process crude, but processes gas oils to produce petroleum products.

Sources: Confirmed by company or on company web site. Various trade press sources

Ports

- The Port of New York and New Jersey are open to all vessel transits with the exception of the Arthur Kill south of the Goethals Bridge. **As of this morning (November 5), the Coast Guard reports that vessels may transit the Arthur Kill waterway but must do so at slow speed to avoid interfering with the ongoing oil spill clean up operations at Motiva's Sewaren, NJ terminal.**

Petroleum Terminals

- The table below lists the status of 57 petroleum terminals impacted by Hurricane Sandy.

Status of Petroleum Terminals as of 8:00 am EST 11/5/12				
Company	City	State	Status	Date Stamp
Motiva	Bridgeport	CT	Open	10/31/12
Hess	Groton	CT	Open	11/3/12
Gulf Oil	New Haven	CT	Open	11/1/12
Magellan Midstream	New Haven	CT	Open	11/1/12
Motiva	New Haven	CT	Open	10/31/12
Magellan Midstream	Wilmington	DE	Open	10/30/12
NuStar Energy	Andrews AFB	MD	Open	10/31/12
Motiva	Baltimore	MD	Open	10/31/12
NuStar Energy	Baltimore	MD	Open	10/31/12
NuStar Energy	Piney Point	MD	Open	10/31/12
Hess	Bayonne	NJ	Shut	11/3/12
IMTT	Bayonne	NJ	Open	11/3/12
BP	Carteret	NJ	Open	11/5/12

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Status of Petroleum Terminals as of 8:00 am EST 11/5/12				
Company	City	State	Status	Date Stamp
Kinder Morgan	Carteret	NJ	Open	11/3/12
Hess	Edgewater	NJ	Open	11/3/12
Buckeye Pipeline	Linden	NJ	Open	11/2/12
CITGO	Linden	NJ	Shut	11/5/12
Colonial Pipeline	Linden	NJ	Open	11/1/12
NuStar Energy	Linden	NJ	Shut	11/5/12
Phillips 66	Linden	NJ	Open	11/3/12
Hess	Newark	NJ	Shut	11/2/12
Motiva	Newark	NJ	Shut	10/31/12
NuStar Energy	Paulsboro	NJ	Open	10/31/12
Hess	Pennsauken	NJ	Open	11/2/12
Hess	Perth Amboy	NJ	Shut	11/2/12
Kinder Morgan	Perth Amboy	NJ	Open	11/3/12
Hess	Port Reading	NJ	Open	11/2/12
Motiva	Sewaren	NJ	Shut	11/5/12
Phillips 66	Tremley Point	NJ	Shut	11/5/12
Castle Oil	Bronx	NY	Open	11/3/12
Hess	Bronx	NY	Open	11/3/12
Schildwachter Oil	Bronx	NY	Open	11/1/12
Bayside Fuel Oil Depot	Brooklyn	NY	Open	11/3/12
BP	Brooklyn	NY	Open	11/3/12
Hess	Brooklyn	NY	Open	11/3/12
Motiva	Brooklyn	NY	Shut	10/31/12
Skaggs Walsh	College Point	NY	Open	11/1/12
Global Partners	Glenwood Landing	NY	Open	11/3/12
Northville Industries	Holtsville	NY	Open	11/3/12
Buckeye Pipeline	Inwood	NY	Open	11/3/12
CARBO	Inwood	NY	Open	11/3/12
Global Partners	Inwood	NY	Open	11/3/12
Motiva	Long Island	NY	Shut	10/31/12
Buckeye Pipeline	Long Island City	NY	Open	11/3/12
Global Partners	Newburgh	NY	Open	11/3/12
Global Partners	Oyster Bay	NY	Open	11/2/12
Northville Industries	Port Jefferson	NY	Open	11/3/12
Phillips 66	Riverhead	NY	Open	11/2/12
Hess	Roseton	NY	Open	11/2/12
Kinder Morgan	Staten Island	NY	Open	11/3/12
Hess	Woodbridge	NY	Open	11/4/12
Kinder Morgan	Philadelphia	PA	Open	10/31/12

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Status of Petroleum Terminals as of 8:00 am EST 11/5/12

Company	City	State	Status	Date Stamp
Motiva	Providence	RI	Open	10/31/12
NuStar Energy	Dumfries	VA	Shut	10/31/12
Motiva	Fairfax	VA	Open	10/31/12
Motiva	Richmond	VA	Open	10/31/12
NuStar Energy	Virginia Beach	VA	Open	10/31/12

Sources: Confirmed by company or on company web site. Various trade press sources

Petroleum Pipelines

- Yesterday (November 4), Colonial pipeline reported commercial power was restored to its Linden, NJ facility. The company also reported that all of the delivery lines out of the Linden facility are operable.

Electric Restoration Information

Connecticut

- The United Illuminating Company (UI) reported last night (November 4) that they are working to restore the remaining five percent of customers in their service territory and estimate that the vast majority of their customers will have power restored by tomorrow. The restoration team includes 971 personnel working in the field (482 overhead line, 227 line clearance, 164 damage assessors and 98 service personnel).
- Connecticut Light and Power (CL&P) reported yesterday (November 4) that they are working to restore the remaining three percent of customers in their service territory and estimate that the vast majority of their customers will have power restored by tomorrow. The total number of storm responders is now more than 7,000, including 2,606 outside line workers from 16 States and four Canadian provinces.

Maryland

- Potomac Edison, a FirstEnergy Corp. subsidiary, announced yesterday (November 4) that the majority of customers without power have been restored. In hard-hit Garrett County, where heavy snow slowed damage assessments from the storm, the majority of customers will be restored by midnight tomorrow.

New Jersey

- The State of New Jersey released power restoration plans from Public Service Electric and Gas, Jersey Central Power and Light, Atlantic City Electric, and Orange & Rockland. The updated restoration plans can be found in the “Information Sources” section at: http://www.state.nj.us/nj/home/features/spotlight/hurricane_sandy.shtml.
- Public Service Electric and Gas (PSE&G) reported today (November 5) that they expect to restore service to all customers by November 9th but stated that the majority of customers would be restored before then. There are five substations that remain without power (all in Hudson County). PSE&G stated they are working to get all five energized sometime today. The company has restored power to 78 percent of the gas stations and 80 percent of the schools in their service territory. Working



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with local officials, PSE&G crews are targeting restoration of power for polling stations where possible.

- Orange and Rockland (O&R), serving New Jersey, New York, and Pennsylvania estimates to have 90% of the customers affected by Sandy back in service by Sunday (November 11). Over 3,500 employees and contract personnel make up the team working on restoring power, the largest workforce in O&R history.
- Jersey Central Power & Light (JCP&) reported yesterday (November 4) that the majority of customers are expected to be restored by Wednesday (November 7). Customers in the hardest-hit areas can expect to be restored throughout the following week. A significant number of customers will not be able to receive service until damaged roads, infrastructure and homes are rebuilt. About 6,800 professionals, including 3,500 linemen and 1,400 forestry workers, are focused on restoring power to the remaining customers. An additional 200 linemen are expected to arrive today. Crews have repaired transmission lines that feed local substations. The 34.5 kV circuits in the entire northern JCP&L region, stretching from Mercer County to Sussex County, were restored last night. JCP&L crews were working with transmission linemen supplied by FEMA to restore the 34.5 kV circuits in Monmouth and Ocean counties. More than 800 utility poles are being replaced and more than 21,000 trees have been cut and removed already from JCP&L equipment. Crews are replacing approximately 3,400 sections of wire and 300 transformers.
- Atlantic City Electric (ACE) stated the estimated time of restoration for the remaining affected customers is 6 pm today (November 5).

New York

- Con Edison reported today (November 5) that the remaining customers in Bronx, Brooklyn, Queens, Staten Island, and Westchester County are estimated to be restored by midnight next Sunday (November 11). Restoration times by location can be found at: http://apps.coned.com/stormcenter_external/default.html. More than 2,000 utility workers from as far away as California are working in New York City and Westchester County to assist in restoration efforts. An 300 additional outside utility workers arrived yesterday.
- Central Hudson reported yesterday (November 4) that they are working to restore power to the reaming one percent of customers who still have no power. Approximately 145 utility mutual aid, contract electric and tree trimming personnel have completed their work in restoring power to Central Hudson customers and are traveling to Long Island, Westchester County and southeastern Putnam County, in cooperation with the New York Mutual Aid Group (NYMAG).
- New York State Electric and Gas (NYSEG) reported yesterday (November 4) that their team has grown to 3,100 front line and support personnel as line and tree crews are being added to the NYSEG power restoration team as they are released from utilities and contractors across the country and from Canada. Crews on the job now number 518. The company expects that virtually all customers will be restored by midnight Wednesday (November 7).
- Long Island Power Authority (LIPA) stated yesterday (November 4) that they expect 90 percent of their customers to be restored by Wednesday (November 7). In the areas of Brookville, St. James, and Port Jefferson, LIPA stated that power restoration could extend beyond next week. LIPA also estimated that there are up to 100,000 customers from the most severely flooded areas on Long Island whose homes and businesses currently may be unable to receive power. All substations that power Long Island's electric system have been restored. Nearly 10,000 restoration workers, including 5,200 linemen from throughout the country, continue to work to restore homes and businesses. To further support this effort, an additional 1,700 restoration workers arrived on



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Saturday (November 3) and 1,100 workers arrived yesterday. A portion of those crews were airlifted in by the National Guard from as far away as California, Washington and Arizona.

- Orange and Rockland (O&R), serving New Jersey, New York, and Pennsylvania estimates to have 90% of the customers affected by Sandy back in service by Sunday (November 11). Over 3,500 employees and contract personnel make up the team working on restoring power, the largest workforce in O&R history.

Ohio

- Illuminating Company, a FirstEnergy subsidiary, released the following restoration estimates yesterday (November 4):
 - Last Night (November 4): Beachwood, Berea, Brecksville, Broadview Heights, Mayfield Heights, Mentor, North, Royalton, Olmsted, Parma, Perry, Strongsville
 - Tonight (November 5): Avon, Avon Lake, Bay Village, Brooklyn, Brookpark, Cleveland Heights, East Cleveland, Euclid, Fairview Park, Lakewood, Lyndhurst, Middleburg Heights, North Olmsted, Rocky River, Seven Hills, South Euclid, Westlake, Willoughby

Pennsylvania

- PECO reported yesterday (November 4) that the remaining 2 percent of their customers without service, who lie in the most severely damaged areas (including parts of Bucks, Chester, Delaware, Montgomery, and Philadelphia counties, should have service restored in the next few days. In all, more than 4,700 employees and contractors (of those, 3,700 are working in the field) are working to repair this damage and restore service to customers. These include workers from utilities as far away as Tennessee, Kentucky, Louisiana, Mississippi, Maryland, and Florida.
- In the Met-Ed service territory, in Boyertown, Reading, Hamburg, Easton and Stroudsburg Counties, the majority of customers should be restored by today (November 5); the remaining customers should be restored by Wednesday (November 7).
- PPL Electric Utilities (PPL) reported yesterday (November 4) the extent of the destruction will require some repairs to extend into today. Backed by the largest force ever assembled by PPL, they expect to complete work today in the areas of Lehigh, Northampton, Bucks, Montgomery and Wayne counties in eastern Pennsylvania. PPL continues to move workers into those communities as crews complete work elsewhere. Power was restored last night at all public schools and voting locations in the PPL service area.

West Virginia

- Appalachian Power (AEP), reports that, in West Virginia some scattered outages will carry into today (November 5). AEP has more than 1,300 company and contract line workers, 100 damage assessors, and 450 tree trimmers working in areas where outages remain. Most of the remaining outages are in Boone, Fayette, Lincoln, Kanawha, Raleigh and Wyoming counties. AEP estimates that in Boone, Cabell, Clay, Fayette, Kanawha, Lincoln, Logan, Nicholas, Putnam, Raleigh, Roane and Summers counties, power will be restored by late last night (November 4).
- Mon Power, a First Energy Corp. subsidiary, reported Sunday (November 4) that the majority of its affected customers in counties are expected to be restored by midnight Friday. Restoration for customers in the most heavily damaged areas, including parts of Barbour, Braxton, Clay, Nicholas, Preston, Randolph, Upshur and Webster counties, may continue into the weekend.
- Potomac Edison, a FirstEnergy Subsidiary, reported yesterday (November 4) that the majority of its affected customers in West Virginia have been restored.

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