



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

**Hurricane Sandy Situation Report # 18**

**November 6, 2012 (10:00 AM EST)**

[http://www.oe.netl.doe.gov/emergency\\_sit\\_rpt.aspx](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 6, there are 973,759 customers without power in the affected States. 7,357,492 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	9,864	< 1%	626,559	616,695
Maryland	2,113	< 1%	311,020	308,907
New Jersey	569,822	14%	2,615,291	2,045,469
New York	355,055	4%	2,097,933	1,742,878
Pennsylvania	9,797	< 1%	1,267,512	1,257,715
West Virginia	27,108	3%	271,765	244,657
<b>TOTAL:</b>	<b>973,759</b>			

**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 5) 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 24 percent of gas stations in the New York Metropolitan area do not have gasoline available for sale. This is a decrease from the 27 percent which EIA estimated did not have gasoline available for sale on November 4. The full results and the methodology can be found at: [http://www.eia.gov/special/disruptions/hurricane/sandy/gasoline\\_updates.cfm](http://www.eia.gov/special/disruptions/hurricane/sandy/gasoline_updates.cfm).

**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

- Phillips 66 reported yesterday (November 5) that it may be two to three weeks before its Bayway refinery (Linden, NJ) can resume normal operations due to the necessary replacement of electrical equipment damaged by saltwater.

Refineries in the Path of Sandy as of 8:00 am EST 11/6/12						
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			
<b>TOTAL</b>		<b>1,170,200</b>	<b>308,000</b>	<b>0</b>	<b>335,000</b>	<b>527,200</b>

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. Yesterday (November 6), the Coast Guard reported 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

- A total of 57 terminals in the path of Hurricane Sandy have reported on their status in the aftermath of the storm. As of 8:00 am today (November 6), reports indicate that 48 terminals are open and 9 terminals are shut.
- The table below lists terminals that remain shut or that have recently re-opened. For a full list of terminals that were reported on, see Situation Report #17.

Status of Petroleum Terminals as of 8:00 am EST 11/6/12				
Company	City	State	Status	Date Stamp
Hess	Bayonne	NJ	Shut	11/3/12
CITGO	Linden	NJ	Shut	11/5/12
NuStar Energy	Linden	NJ	Open	11/5/12
Hess	Newark	NJ	Shut	11/2/12
Motiva	Newark	NJ	Shut	10/31/12
Hess	Perth Amboy	NJ	Shut	11/2/12
Motiva	Sewaren	NJ	Shut	10/31/12
Phillips 66	Tremley Point	NJ	Shut	11/3/12
Motiva	Brooklyn	NY	Shut	10/31/12
Motiva	Long Island	NY	Shut	10/31/12

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

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

### Petroleum Pipelines

- On 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 this morning (November 6) that there are more than 2,000 homes along the shoreline that cannot get power due to damage. 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), a Northeast Utilities (NU) company, reported yesterday (November 5) that they have substantially completed the restoration of their customers and are working to restore the remaining three percent of customers in their service territory. 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. Employees from every NU operating company, NSTAR, Yankee Gas, Public Service of New Hampshire and Western Massachusetts Electric Company, have come to assist in the restoration effort.

#### Maryland

- Potomac Edison, a FirstEnergy Corp. subsidiary, announced yesterday (November 5) that the majority of those customers in Garrett County will be restored by tonight.

#### 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](http://www.state.nj.us/nj/home/features/spotlight/hurricane_sandy.shtml).
- Public Service Electric and Gas (PSE&G) reported this morning (November 6) that they expect to restore service to most customers by Friday (November 9), but stated that the majority of customers would be restored before then. PSE&G stated that one damaged substations in Hudson County remain out of service. The company has restored power to all refineries, 84 percent of the gas stations, and 88 percent of the schools in their service territory.
- 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 Saturday (November 10), a day earlier than previously estimated. The O&R team totals 3,500 workers—including 1,000 employees and 2,500 contract personnel from across the country—is the largest workforce in O&R history. In New Jersey, outages are concentrated in Bergen and Passaic counties.
- Jersey Central Power & Light (JCP&L) reported yesterday (November 5) that the majority of customers are expected to be restored by tomorrow (November 7). Customers in the hardest-hit areas can expect to be restored throughout the following week. Most of the customers who remain without power live in Morris, Monmouth and Ocean counties. A significant number of customers will not be able to receive service until damaged roads, infrastructure and homes are rebuilt. JCP&L’s team is made up of 8,200 professionals, including 3,800 linemen and 1,500 forestry



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

workers. An additional 260 linemen arrived yesterday (November 5) to assist JCP&L's restoration effort. JCP&L has received crews from as far away as Canada, California, Washington state and Florida. 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 Sunday night (November 4). JCP&L crews were working with transmission linemen supplied by FEMA to restore the 34.5 kV circuits in Monmouth and Ocean counties which bring high voltage to the local neighborhood system. More JCP&L crews are transitioning to repair local lines.

- Atlantic City Electric (ACE) stated yesterday (November 5) that they are working to restore the remaining less than 1 percent of their customers and expected all who are able to accept power to be restored by early this morning (November 6). Atlantic City Electric has released over 700 mutual assistance personnel it received to help utilities to its north deal with the devastation.

### New York

- Con Edison reported yesterday (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). More than 2,500 utility workers from as far away as California are working in New York City and Westchester County to assist in restoration efforts. An additional 500 outside utility workers are scheduled to arrive today.
- Central Hudson reported Sunday (November 4) that they are working to restore power to the remaining less than one percent of customers who still have no power.
- New York State Electric and Gas (NYSEG) reported last night (November 5) that their team has grown to 3,400 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. More than 600 line and tree crews from as far away as Nova Scotia, Missouri, North Carolina, Texas and Minnesota are on the job. The company expects that virtually all customers will be restored by midnight tomorrow (November 7). NYSEG has replaced 740 of the 921 poles broken in its downstate service area.
- Long Island Power Authority (LIPA) reiterated Monday night (November 5) that they expect 90 percent of their customers to be restored by Wednesday (November 7). The company stated that restoration for customers in Brookville, St. James, and Port Jefferson may be a week or more beyond November 7<sup>th</sup>. Rockaway Peninsula, On Sunday, LIPA 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. There are 11,000 restoration workers, including 7,000 outside linemen from throughout the country, continue to work to restore homes and businesses.
- 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 Saturday (November 10), a day earlier than previously estimated. The O&R team totals 3,500 workers—including 1,000 employees and 2,500 contract personnel from across the country—is the largest workforce in O&R history. In New York, outages are concentrated in Rockland and Orange counties.

### Ohio

- Illuminating Company, a FirstEnergy subsidiary, reported this yesterday (November 5) they expected their remaining customers without power would be restored last night.



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

### Pennsylvania

- PECO reported yesterday (November 5) that those customers 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 couple of 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. Additionally, PECO's sister utilities, Chicago-based ComEd and Baltimore-based BGE, have sent crews.
- In the Met-Ed service territory, in Boyertown, Reading, Hamburg, Easton and Stroudsburg Counties, the majority of customers were restored yesterday (November 5) and the remaining customers should be restored by tomorrow.
- PPL Electric Utilities (PPL) reported yesterday (November 5) the extent of the destruction will require some repairs to extend through the night and most customers should be back on line today (November 6).
- 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 Saturday (November 10), a day earlier than previously estimated based on the influx of support from its large workforce of employees and contractors. The O&R team now totals 3,500 workers—including 1,000 employees and 2,500 contract personnel from across the country—is the largest workforce in O&R history. The majority of remaining customers without power are in New York and New Jersey, with only single-digit outages in Pennsylvania (Pike County) as of last night (November 5).

### West Virginia

- Appalachian Power (AEP), reports Monday (November 5) that, there are isolated areas where damage was most severe may not be restored until today (November 6). This includes parts of Fayette, Raleigh and Wyoming counties.
- Mon Power, a First Energy Corp. subsidiary, reported yesterday that more than 2,700 Mon Power employees, contractors and outside utility crew members—including 300 linemen from American Electric Power who arrived yesterday (November 5)—are working to restore service. Approximately 700 miles of the more than 900 miles of transmission lines damaged by the storm have been restored. Restoration estimates include:
  - Monday (November 5): Coalton (Randolph County) , Norton (Randolph County),
  - Today (November 6): Widen (Clay County), Lewis County, St. George (Tucker County), Upshur County, Harman (Randolph County)
  - Tomorrow (November 7): Rowlesburg (Preston County)
  - Thursday (November 8): Barbour County, Braxton County, Grant County, Nicholas County
  - Friday (November 9): Webster County, Mineral County, Greenbrier County, and the remainder of Clay, Randolph, Preston, and Tucker counties.

Customers located in remote parts of Barbour, Braxton, Clay, Nicholas, Preston, Randolph, Tucker and Webster counties may not be fully restored until the end of the weekend.