



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

Hurricane Sandy Situation Report # 20

November 7, 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. **The National Weather Service is forecasting a nor'easter to bringing strong winds, rain or snow, and coastal flooding to areas of the mid-Atlantic and Northeast, including areas affected by Sandy,**
- **As of 9:00 am EST November 7, there are 650,416 customers without power in the affected States. 7,860,835 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
New Jersey	383,143	10%	2,615,291	2,232,148
New York	240,326	3%	2,097,933	1,857,607
Pennsylvania	5,693	< 1%	1,267,512	1,261,819
West Virginia	21,254	2%	271,765	250,511
TOTAL:	650,416			

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 6) 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. The estimate from yesterday is the same as the estimate on November 5th. The full results and the methodology can be found at: http://www.eia.gov/special/disruptions/hurricane/sandy/gasoline_updates.cfm.**
- **Electric utilities who are working to complete the restoration to customers impacted by Sandy have stated that the forecast high winds and flooding may slow or temporarily stop restoration activities.**

ESF 12 Actions:

- **ESF 12 is staffing the FEMA National Response Coordination Center (NRCC) in Washington, DC; the FEMA Region II Regional Response Coordination Center (RRCC) in Colts Neck, NJ, the FEMA Interim Operation Facility in Hartford, CT, 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 11/7/12						
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/New Jersey is open to all commercial vessel transits. Vessels transiting on the Arthur Kill south of the Goethals Bridge are advised to minimize their wake/surge due to ongoing pollution response activities.

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 7), 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.

Status of Petroleum Terminals as of 8:00 am EST 11/7/12				
Company	City	State	Status	Date Stamp
Hess	Bayonne	NJ	Shut	11/3/12
CITGO	Linden	NJ	Shut	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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Electric Restoration Information

Connecticut

- The United Illuminating Company (UI) reported yesterday (November 6) that they expect power to be restored by the end of the day today to all customer properties that are capable of accepting service. There are more than 2,000 homes along the shoreline that cannot get power due to damage.

Maryland

- Potomac Edison, a FirstEnergy Corp. subsidiary, announced last night (November 6) that the remaining affected customers in Garrett County should have power restored by the end of the week.

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 restoration plans are updated daily and 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 7) that they hope to restore service to the remaining 11 percent of customers by Friday (November 9), but stated that the majority of customers would be restored before then. PSE&G stated that they have one substation left out of service (in Bayonne) and are working to put it back in service today. PSE&G has secured an additional 600 line workers who are being redirected from Pennsylvania. There are now more than 4,600 workers on the ground helping restore power including 4,000 out-of-state staff in addition to 700 PSE&G workers.
- Orange and Rockland (O&R), serving New Jersey, New York, and Pennsylvania estimates to have almost all of the remaining 8 percent of customers back in service by Saturday (November 10). The company will continue to restore power to those scattered isolated areas remaining without power after the 10th. O&R team totals over 3,500 workers, including 1,000 employees and 2,500 contract personnel. In New Jersey, outages are concentrated in Bergen and Passaic counties.
- Jersey Central Power & Light (JCP&L) reported last night (November 6) that the majority of customers are expected to be restored by today. 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. The company also stated that many customers along barrier islands and coastal towns of Monmouth and Ocean counties cannot be completely restored because of severe damage to homes, business, roads, and infrastructure. JCP&L’s team is made up of 8,800 professionals, including 4,100 linemen and 1,500 forestry workers. An additional 600 linemen were expected to arrive yesterday.
- Atlantic City Electric (ACE) stated yesterday (November 6) that they are working to restore the remaining less than 1 percent of their customers but there are still approximately 5,000 customers, who, because of extensive damage to their homes, cannot accept electric service at this time.

New York

- Con Edison reported this morning (November 7) that they are working to restore the remaining 10 percent of customers without power in the Bronx, Brooklyn, Queens, Staten Island, and Westchester County. The majority of customers remaining without power are in Westchester. Damaged shore areas in Brooklyn and Queens (Gerritsen Beach, Sea Gate, Red Hook, Sheepshead Bay, Brighton Beach, Manhattan Beach, Howard Beach, Broad Channel, and Brookville) as well as Staten Island



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(Arrochar, South Beach, Midland Beach, New Dorp Beach, Oakwood Beach, Butler Manor, and Tottenville) remain a particular challenge for restoration due to the heavy flood and wind damage. Customers in those areas must have a licensed electrician to certify that their systems can be safely energized according to New York City Building Code. 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 were scheduled to arrive yesterday and 300 more today. Many personnel came from Dominion Virginia Power, PG&E, Duke Energy, Alabama Power, Pepco, and Southern California Edison to support Con Edison's restoration effort.

- Long Island Power Authority (LIPA) reported yesterday (November 6) that they expect 90 percent of their customers to be restored by today (November 7). The company stated that restoration for customers in Brookville, St. James, and Port Jefferson may be a week or more beyond the 7th. In addition to setting up portable generation to start to bring power to the main roads, traffic lights, and some housing complexes, LIPA has deployed restoration crews to begin construction to build a bypass system to get transmission to the Rockaway Beach substation. Once power is distributed to the substation in the Rockaway area, crews will begin to energize the distribution system. Additionally, work continues to repair all other substations on the peninsula which suffered extreme flood damage from the storm. In the interim, mobile substations are temporarily being brought in and sited. LIPA stated on Sunday (November 4), 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. Over 12,000 restoration workers, including 8,000 linemen and tree workers from throughout the country, are working to restore power. Support from off Long Island continues to arrive each day, with a portion of those airlifted in by the National Guard from as far away as California, Washington and Arizona. The combination of off and on-Island resources has helped to amass the largest workforce ever for such efforts on Long Island.
- Long Island Power Authority (LIPA) has teamed with National Grid in a task force that is working to restore power in New York City. The team has been engaged in plans with the New York City Housing Authority, New York Police Department, Fire Department of New York, and Office of Emergency Management (OEM) to develop a plan of action to determine the most effective approach to energize homes and businesses that are able to receive power. The team yesterday (November 6) prioritized the restoration of the Rockaway Peninsula in Queens.
- New York State Electric and Gas (NYSEG) reported yesterday (November 6) that the majority of the remaining outages in their service territory are in Westchester County, with smaller numbers in Putnam, Dutchess, and Sullivan counties. Their restoration team has 3,500 front line and support personnel and includes more than 650 line and tree crews from as far away as Nova Scotia, Missouri, North Carolina, Texas and Minnesota are on the job. NYSEG has replaced 902 of the 1,012 poles broken in its downstate service area.
- Orange and Rockland (O&R), serving New Jersey, New York, and Pennsylvania estimates to have almost all of the remaining 8 percent of customers back in service by Saturday (November 10). The company will continue to restore power to those scattered isolated areas remaining without power after the 10th. O&R team totals over 3,500 workers, including 1,000 employees and 2,500 contract personnel. In New York, outages are concentrated in Rockland and Orange counties.

Pennsylvania

- PECO reported yesterday (November 6) that they expect service to be returned to all customers by midnight tonight (November 7). The majority of customers without power are concentrated in Bucks and Montgomery counties, but there are also scattered outages in Chester, Delaware and Philadelphia counties.

William N. Bryan | Deputy Assistant Secretary | ISER | Department of Energy | 202-586-7517



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- **Med-Ed reported yesterday (November 6) that it has restored service to nearly all of its customers.**
- PPL Electric Utilities (PPL) reported Monday (November 5) the extent of the destruction will require some repairs to extend through the night and most customers should be back on line yesterday (November 6).

West Virginia

- Appalachian Power (AEP), reported Monday (November 5) that, there are isolated areas where damage was most severe may not be restored until yesterday (November 6). This includes parts of Fayette, Raleigh and Wyoming counties. More than 350 line workers and 300 tree trimmers are working in areas where outages exist.
- **Mon Power, a First Energy Corp. subsidiary, reported late last night (November 6) that the majority of affected customers are expected to be restored by Friday night (November 9). 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. More than 2,700 Mon Power employees, contractors and outside utility crew members, including 300 linemen from American Electric Power who arrived Monday, are working to restore service. Approximately 700 miles of the more than 900 miles of transmission lines damaged by the storm have been restored.**