



Hurricane Sandy Situation Report # 14

November 4, 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 3 there are 1,923,169 customers without power in the affected States. 6,558,082 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	75,289	5%	626,559	551,270
Maryland	10,609	< 1%	311,020	300,411
New Jersey	968,613	25%	2,615,291	1,646,678
New York	729,919	9%	2,097,933	1,368,014
Ohio	10,067	< 1%	267,323	257,256
Pennsylvania	82,810	1%	1,267,512	1,184,702
West Virginia	45,862	5%	271,765	225,903
TOTAL:	1,923,169			

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 3) the Energy Information Administration (EIA) released a 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 38 percent of gas stations in the New York Metropolitan area do not have gasoline available for sale. This is a decrease from the 67 percent which EIA estimated did not have gasoline available for sale on November 2. 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.
- On November 2, the Department of Homeland Security, in consultation with the US Department of Energy, issued a waiver of the Jones Act to allow foreign flagged oil tankers coming from ports in the Gulf Coast Petroleum Administration for Defense District (PADD 3) to deliver petroleum products to ports in the New England and Central Atlantic PADDs (PADDs 1a and 1b). Ships under this waiver must load by November 13th and offload at their destinations by November 20th. This

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waiver was amended yesterday to allow for the transportation of other feedstocks, blending components, and additives used to produce motor fuels.

- On November 2, the US Environmental Protection Agency (EPA) issued a Non Action Assurance (NAA) that will allow the loading and unloading of fuel at bulk gasoline and marine loading terminals and associated truck loading racks in New Jersey and New York without the use of a vapor recovery device or vapor combustion device as required by current national standards. The NAA will terminate on November 17.

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

- Trade press reported yesterday (November 3) that power had been partially restored at Hess’s Port Reading, NJ facility but full restart of the refinery was still days away. Full power restoration is required to complete an assessment of the facility equipment before the restart process can begin.
- Trade press reported Friday (November 2) that Phillips 66’s Bayway refinery in Linden, NJ could be weeks away from restarting due to damage caused by salt water flooding

Refineries in the Path of Sandys of 8:00 am EST 11/4/12						
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

- As of 1:00 pm yesterday (November 3), 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. Vessel entry to the Port and anchorage use is limited to vessels with an approved facility berth or orders to bunker or lighter at anchor.

Petroleum Terminals

- Trade press reported yesterday (November 3) that at the International-Matex Tank Terminals (IMTT) terminal in Bayonne, NJ, half of the facilities at the site were back to normal operations and



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the facility was awaiting nominations from its customers. The report also stated that damage assessments at the site did not indicate fuel leakage from tanks or pipelines.

- The table below lists the status of 55 petroleum terminals impacted by Hurricane Sandy.

Status of Petroleum Terminals as of 8:00 am EST 11/4/12

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
Kinder Morgan	Carteret	NJ	Open	11/3/12
Hess	Edgewater	NJ	Open	11/3/12
Buckeye Pipeline	Linden	NJ	Open	11/2/12
Colonial Pipeline	Linden	NJ	Open	11/1/12
NuStar Energy	Linden	NJ	Open	11/2/12
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	10/31/12
Phillips 66	Tremley Point	NJ	Shut	11/3/12
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

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Status of Petroleum Terminals as of 8:00 am EST 11/4/12				
Company	City	State	Status	Date Stamp
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	Shut	11/3/12
Kinder Morgan	Philadelphia	PA	Open	10/31/12
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 3), Colonial pipeline reported that all its delivery lines out of its Linden, NJ facility have been inspected and are capable of resuming service when customer terminals are ready to receive. The company stated that the Linden facility continues to run on portable generators. Colonial Pipeline reported November 1 that it restarted a large section of the Northeast mainline which was shut down on October 29.
- As of yesterday (November 3), Buckeye had restarted all of its operations; power has been restored to Buckeye Pipeline, including its Linden, NJ facility. The pipeline is supplying jet fuel to the 3 airports in the New York City area.

Electric Restoration Information

Connecticut

- The United Illuminating Company (UI) has projected it will complete service restoration to 95 percent of its customers before midnight on Monday (November 5). The restoration team includes 1,391 FTE's working in the field (519 line workers, 373 line clearance workers, 246 damage assessors, 98 service personnel, and 155 wires down workers). UI has 192 polling centers within its service territory and all but five of those now have power.
- Connecticut Light and Power (CL&P) reported Thursday (November 2), that they expect that the vast majority of its customers will have power restored by Tuesday (November 6). The total number of storm responders is now more than 7,000, including 2,600 outside line workers from 16 and four



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Canadian provinces. Over 569 licensed electricians are available to assist with individual customer service wire reattachments.

Maryland

- FirstEnergy Corp. estimated today (November 4) that the majority of their Potomac Edison Maryland customers were expected to be restored by 6 pm yesterday with the exception of the hardest hit area of Garrett County, where 95 percent of affected customers are expected to have power restored by Monday night (November 5). Most areas will in FirstEnergy's Mon Power service territory who still do not have power should be restored between yesterday (November 4) and next Thursday (November 8). Some parts of Tucker, Randolph, Greenbrier, Mineral and Webster counties will not be fully restored until next Friday (November 9).

New Jersey

- Yesterday (November 3), the State of New Jersey released power restoration plans through November 5 from Public Service Electric and Gas, Jersey Central Power and Light, and Atlantic City Electric. The State also stated that there are 16,000 mutual aid/work crews from in State and out-of-State in New Jersey working to restore power. The restoration plans can be found at: <http://www.state.nj.us/governor/news/news/552012/approved/20121103a.html>.
- Public Service Electric and Gas (PSE&G) reported last night (November 3) that they estimate virtually all impacted customers will be restored to service within the coming week, but the majority of customers will be restored before then. PSE&G energized an additional eight substations yesterday, bringing the total restored to 24. The substations restored serve parts of Jersey City, Hoboken, Union City, West New York, Weehawken, Plainfield, North Bergen, Carteret, Linden, Metuchen, Union Township and Woodbridge. The company estimates the vast majority of its customers in Union City and West New York will have power by tonight. After next Friday (November 9), there may still be isolated pockets of customers who have individual flooding or downed line issues that may take slightly longer PSE&G reports that their biggest challenge is in Hoboken, where their stations were submersed in more than 3 feet of water. It took several days for this water to recede. Much of the equipment was corroded by salt water and needs extensive work. They have more than 100 out-of-state workers who specialize in substation repairs, many of whom are concentrating their efforts in Hoboken. More than 3,600 mutual aid line workers and tree contractors from out-of-state are assisting the in restoration. This includes 319 new workers which arrived Friday (November 3) and 300 more were sent from Washington, DC from PEPCO.
- Orange and Rockland (O&R), serving New Jersey, New York, and Pennsylvania estimated today (November 3) it could restore electricity to the vast majority of its customers by this week and that 90 percent of its customers' service should be restored by November 11. Currently, more than 3,500 employees and contract personnel are working to restore power.
- Jersey Central Power & Light (JCP&L) reported yesterday (November 3) that the majority of its customers will be restored by Wednesday (November 7) and customers in the hardest-hit areas could expect to be restored throughout the following week. In the JCP&L service area the storm caused damage to more than 600 utility poles and nearly all of the utility's electric circuits and 21,000 trees have been cut and removed from JCP&L equipment since Monday (October 29). The restoration of the utility's customers is being worked by 6,200 professionals, including 3,200 linemen and 1,400 forestry workers. Crews have repaired transmission lines that feed local substations and have replaced approximately 2,700 sections of wire and 200 transformers. Aerial patrols continue to assess damage.

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- Atlantic City Electric (ACE) stated yesterday (November 3) that most outages on the mainland have been restored and the most severely impacted customers on the mainland and barrier island communities capable of accepting power should be fully restored by the end of the weekend.

New York

- Con Edison reported today (November 4) that all of its Manhattan networks are re-energized. Yesterday there were over 2,000 out-of-town crews being deployed from staging areas and the company anticipated an additional 400 crews would arrive today. The remaining customers in Bronx, Brooklyn, Queens, Staten Island, and Westchester county are estimated to be restored by midnight November 11. Restoration times by location can be found at: http://apps.coned.com/stormcenter_external/default.html
- Central Hudson stated yesterday (November 3) that it expected restoration to be largely completed yesterday with remaining cases in remote and hard-hit areas lasting until Monday (November 5). The majority of outages remaining are concentrated in Ulster County, with smaller numbers (in descending order) in Orange, Sullivan, Dutchess, and Putnam counties. In all, nearly 1,500 individual damage locations have been repaired and electric service will be completed to all customers in less than one week. This included nearly 200 broken poles and 1,100 instances of downed wires. Central Hudson deployed 700 employee line personnel, contractors, and mutual aid crews from Florida, Iowa, Indiana, and Wisconsin.
- New York State Electric and Gas (NYSEG) reported yesterday (November 3) the company expected that the vast majority of customers would be restored by midnight yesterday, with remaining customers restored by midnight Wednesday (November 7). NYSEG reported more than 2,600 personnel are on the job. Crews have come from as far away as Nova Scotia, Missouri, North Carolina, Texas and Minnesota.
- Long Island Power Authority (LIPA) stated today (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. The company said it is working with local authorities in those communities to determine whether and when homes and businesses will be fit to safely receive electric service. There are over 8,000 personnel currently supporting the LIPA restoration including over 3,800 High Voltage and Tree Trim Crews working on the system.
- Orange and Rockland (O&R), serving New Jersey, New York, and Pennsylvania estimated today (November 3) it could restore electricity to the vast majority of its customers by this week and that 90 percent of its customers' service should be restored by November 11. Currently, more than 3,500 employees and contract personnel are working to restore power.

Ohio

- In Ohio, FirstEnergy estimated yesterday (November 3), the following restoration estimates:
 - Midnight Last Night (November 3)– Ashtabula, Burton, Chardon, Conneaut, and Orwell
 - This Morning (November 4)– Cleveland
 - Midnight Today (November 4) – Beachwood, Bedford, Berea, Brecksville, Broadview Heights, Cleveland Heights, East Cleveland, Eastlake, Euclid, Independence, Mayfield Heights, Mentor, Middleburg Heights, North Royalton, Olmsted, Parma, Perry, Strongsville, and Wickliffe



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- Midnight Tomorrow (November 5)- Avon, Avon Lake, Bay Village, Brooklyn, Brookpark, Fairview Park, Lakewood, North Olmsted, Rocky River, Shaker Heights, Warrensville Heights, and Westlake

Pennsylvania

- PECO stated today (November 4) that most of the remaining customers should have service restored during the weekend. Some customers in the most damaged and isolated areas may be without electricity until early next week. 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, Florida, and from PECO's sister utilities: Chicago-based ComEd and Baltimore-based BGE. PECO field forces have completed more than 13,000 repair jobs. Crews have replaced 87 miles of wire, 11,834 fuses, 1,480 cross arms, 300 poles, and 145 transformers. An additional 400 support personnel from Maryland and their sister company ComEd were joining the PECO workforce yesterday to help restore service to their customers, with 150 additional field personnel expected to join the PECO field forces yesterday (November 3). The areas most impacted by power outages are in Bristol, Lower Makefield, Upper Makefield, Solebury, and New Hope in Bucks County and Cheltenham, Abington, Upper Moreland, Lower Merion, and Plymouth in Montgomery County.
- First Energy, which includes PennPower, WestPenn Power, Met-Ed and Penelec, reported PennPower and WestPenn Power are both fully restored. In the Met-Ed service territory, in Boyertown, Reading, Hamburg, Easton and Stroudsburg Counties, the majority of customers should be restored by Monday, November 5; with remaining customers restored by Wednesday (November 7).
- PPL Utilities reported today (November 4) that their goal remains to restore all affected customers by 11 pm. tonight (November 4), though it is possible small pockets of outages could remain longer. The total workforce in the eastern part of the state to 2,500.

West Virginia

- Appalachian Power (AEP), reports that, in West Virginia, 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 tonight (November 4).
- Mon Power, a FirstEnergy subsidiary, reported Thursday (November 2) that the majority of its affected customers in West Virginia should be restored by late tonight. Times for complete restored estimated yesterday (November 3) include:
 - Tuesday (November 6) – Lewis and Upshur counties
 - November 7- Clay county
 - November 8 – Barbour, Braxton, Grant, Nicholas, and Preston counties; and
 - November 9 - Greenbrier, Randolph, Tucker, and Webster counties.
- Potomac Edison, a FirstEnergy Subsidiary, reported today (November 4) that the majority of its affected customers in West Virginia were restored by the end of the day yesterday. The company estimates that 95 percent of Garrett County customers should to be restored by midnight tomorrow (November 5).