

OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Hurricane Katrina Situation Report #14
September 1, 2005 (10:00 AM EDT)

HIGHLIGHTS

- Over 2 million customers, or 11 percent of total customers, remain without electric power due to Hurricane Katrina in Alabama, Florida, Georgia, Louisiana, and Mississippi. These are primarily in Louisiana, Mississippi, and Alabama where 35 percent of customers are without power in those three states. (see table below).
- Extensive flooding continues to be a major issue for electricity restoration as is the unprecedented scope of the damage. Availability of line crews is also an issue. As Florida utilities finish their restoration work their crews are beginning to move to other states. Crews from other states are also beginning to arrive to assist in the restoration.
- ESF-12 has been activated by the Federal Emergency Management Agency to support multiple locations. OE staff are now at the National Response Coordination Center (NRCC) at FEMA HQ, FEMA Regions IV and VI, and the State Emergency Operation Centers (EOC) in Alabama, Louisiana, and Mississippi.
- Entergy reports that its single biggest problem to restoring power in the Greater New Orleans area is the lack of food and water for its repair crews who are literally sleeping in their trucks. OE staff on site in Louisiana have this morning provided GIS coordinates to FEMA so that shipments can begin to these workers.
- Electricity outages are a major issue in restoration of the Colonial Pipeline and the Plantation Pipeline. Key pump stations in LA and MS are without power. The LA Public Service Commission is working with power companies to assess the situation and provide guidance on priorities. FEMA Region IV is working with the MS EKOC on the same subject.
- More detail about the status of the Colonial Pipeline and the LOOP is below (see Petroleum and Gas section).
- EPA issued waivers for all 50 states to make available to first responders fuel that is currently restricted due to Clean Air Act restrictions. EPA will allow all parties in the fuel distribution system to supply and sell a 9.0 – 11.5. RVP gasoline and a 500 ppm-sulfur diesel with visible red dye. OE worked with EPA to obtain the waivers, which are effective immediately and will run through Sept. 15.
- Secretary Bodman announced that DOE has already approved one request for loans of crude oil from the Strategic Petroleum Reserve.

PETROLEUM AND GAS INFORMATION

- MMS reports that of the 70 companies reporting, 482 platforms and 79 rigs remain evacuated. Oil production shut in is 1,371,814 barrels per day, which represents 91 percent of daily oil production in the Gulf. Natural gas production shut in is 8,345 billion cubic feet per day, or 83 percent of daily gas production. Evacuations represent 59 percent of platforms and rigs operating in the Gulf of Mexico. For companies reporting to MMS, cumulative shut in production for the period 8/26/05 – 8/31/05, represents about 1 percent each of the yearly production of oil and natural gas in the Gulf of Mexico.
www.mms.gov
- The LOOP has suffered minimal damage at a booster station and the storage terminal. Emergency generators are in place and repairs are scheduled. Deliveries from the St. James Terminal are expected to commence tomorrow. The single biggest need now is for power restoration by Entergy.
- The Strategic Petroleum Reserve at New Orleans Elmwood complex remains shut down. Bayou Choctaw, Bryan Mound, Big Hill and West Hackberry sites, however, are operational and will be able to provide crude oil in the loan program noted above.
- Colonial and Plantation petroleum product pipelines, which provide the majority of gasoline, diesel fuel, and jet fuel to the Southeast, Mid-Atlantic, and Northeast states, have taken steps to begin operation.
 - Colonial is now operating at 750,000 barrels per day. Once additional generators are activated at inactive pump stations, production will increase to 1.2 to 1.3 million barrels per day. Further increases cannot be made until normal power is restored. The capacity of Colonial is about 2.4 million barrels per day. Solutions for power restoration are being actively pursued, and we should have additional information on this process in the next situation report.
 - Plantation is now operating at 25% of capacity and hopes to be up to 50% of normal operations by Friday
- Capline, a crude oil pipeline serving the Midwest, is planning to restart operations in the next day or two. Power has been restored to almost every pumping station. Capline plans to restart this evening and has sufficient supply at St. James Terminal to run at reduced rates for three days.
- Gulf Coast refiners dependent upon sour crude supplies (Mars and Poseidon) will not be able to obtain new supplies as long as the production platforms remain closed.
- The following table displays refineries located in states impacted by Hurricane Katrina:

LA/MS/AL – Gulf Coast Refiner Impacts

Refinery	Location	State	Capacity (bbl/day)	Impact
ExxonMobil	Baton Rouge	LA	493,500	Reduced Runs
Valero	Krotz Springs	LA	80,000	Reduced Runs
Placid Oil	Port Allen	LA	48,500	Reduced Runs
ConocoPhillips	Belle Chasse	LA	247,000	Shutdown
Marathon	Garyville	LA	245,000	Shutdown; minor damage
Motiva (Shell)	Convent	LA	235,000	Shutdown
Motiva (Shell)	Norco	LA	226,500	Shutdown
Shell Chem	St Rose	LA	55,000	Shutdown
Chalmette	Chalmette	LA	187,200	Shutdown
Valero	St. Charles	LA	185,000	Shutdown; 1 or 2 weeks; water damage
Murphy	Meraux	LA	120,000	Shutdown
ChevronTexaco *	Pascagoula	MS	325,000	Shutdown
Shell Chem	Saraland	AL	80,000	?

Port Arthur/Lake Charles Refiner Impacts

Refinery	Location	State	Capacity (bbl/day)	Impact
ExxonMobil	Beaumont	TX	348,500	OK
Motiva (Shell)	Port Arthur	TX	285,000	OK
Premcor	Port Arthur	TX	247,000	OK
Koch *	Corpus Christi	TX	156,000	OK
Total	Port Arthur	TX	211,500	Reduced Runs (Mars)
Citgo *	Lake Charles	LA	324,300	Tot Supply Loss (1)
ConocoPhillips *	Lake Charles	LA	239,400	Tot Supply Loss (1)

(1) Due to Calcasieu Ship Channel is closed and Offshore Production Shut-In

Capline Pipeline – Midwest Refiner Impacts

Refinery	Location	State	Capacity (bbl/day)	Impact
BP	Whiting	IN	410,000	Reduced Runs
BP	Toledo	OH	160,000	Reduced Runs
ExxonMobil	Joliet	IL	238,000	None
PDV Midwest	Lemont	IL	160,000	OK; LOOP delivery
Marathon	Robinson	IL	192,000	Reduced Runs
Marathon	Catlettsburg	KY	222,000	Reduced Runs
Marathon	Detroit	MI	74,000	OK
Marathon	Canton	OH	73,000	OK
ConocoPhillips	Wood River	IL	306,000	Reduced Runs; Supply Loss
Premcor	Memphis	TN	180,000	Reduced Runs

* Refineries with company owned and operated on-site power generation.

ELECTRICITY INFORMATION

STATE OUTAGE DATA

Utility	Customers w/o Power	% Customers w/o Power from Katrina (1)
Alabama	247,270	11%
Florida	15,490	<1%
Georgia	12,500	<1%
Louisiana	826,148	39%
Mississippi	990,425	70%
Total	2,091,833	11%

STATE REPORTS

Alabama

- Alabama reports 247,270 customers without power, 11 percent of customers in the state. Alabama Power has pledged that 99 percent of power will be restored in the Birmingham area by the end of the day Friday, with 99 percent of all Alabama Power customers back on by September 7.
- The company reports 596 poles still down and 5,367 spans of wire down. Crews from the following states were either on the ground Wednesday night or on their way to assist company crews in the restoration operation: Indiana, Georgia, Massachusetts, New Jersey, New York, Ohio, Oklahoma, Texas, Virginia and West Virginia. The availability of additional outside crews was limited, however, because of the need in hard-hit areas in Mississippi and Louisiana.
- The worst hit counties for coops are Monroe, Choctaw, Clarke, Baldwin, and Marion. Approximately 400 crew members from out of state are helping in the restoration of the co-ops. There are crew members from: SC,GA, TN, IN and newly-released workers from FL..

Mississippi

- Approximately 990,400 customers are without power in Mississippi due to Katrina. Of these, 216,376 are in the Entergy service area, 195,000 are in the Mississippi Power service area, 426,384 are in the Mississippi Electric Power Association service area, and 113,289 are in the TVA area.
- Mississippi Power estimates that about 70 percent of its 8,000 miles of transmission and distribution lines will need to be repaired or replaced. Over 2,500 outside crews arrived Tuesday to provide assistance. About 5,000 outside crews are expected to be available by today. Mississippi Power estimates that it may take as long as four weeks to restore power in hard hit areas.

Louisiana

- Louisiana Public Service Commission reports approximately 826,000 customers, or 39% of the 2.1 million customers in the state, are without power.
- Entergy now has 9,000 line and vegetation workers restoring service. Entergy is in contact with other utilities and contract workers to bring in additional workers and pre-position as many out-of-state utility crews as possible to quickly move in to help restore service. The company website reports that flooding, fuel supply and other barriers will make restoration more difficult.

Louisiana Outages by Major Utility (9/1/05 6:00 AM)

Electric Utility	Customers w/o Power	% customers w/o power
Entergy Louisiana Inc	407,125	62%
Entergy Gulf States Inc	65,211	19%
Cleco Power LLC	79,672	31%
Entergy New Orleans Inc	215,163	100%
Dixie Electric Membership Corp	25,005	29%
Washington-St Tammany E C, Inc	20,000	48%
South Louisiana Elec Coop Assn	13,912	73%
City of Morgan	60	1%

Florida

- Approximately 15,490 customers, less than 1 percent of customers in the state, remain without power in Florida due to Katrina. These are primarily in Dade County. Following the restoration, Florida utilities are releasing line crews to support restoration in hard hit states. Utilities in Florida are encouraging conservation by customers due to concerns about natural gas supplies. The Florida Reliability Coordinating Council issued a generating alert, calling for conservation of electricity.