

OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Hurricane Katrina Situation Report #20
September 4, 2005 (12:00 PM EDT)

HIGHLIGHTS

- Approximately 1.3 million customers remain without electric power due to Hurricane Katrina in Alabama, Louisiana, and Mississippi, or 26 percent of customers. (See table below).
- Secretary Bodman announced late Friday (9/2/05) that President Bush has authorized the Department of Energy to draw down and offer for sale petroleum from the Strategic Petroleum Reserve. The initial offer will be for about 30 million barrels of oil. However, the President's finding does not limit the drawdown and sale to only 30 million barrels, or limit the drawdown to any particular time period. The public sale process will begin on Tuesday (September 6). The Secretary emphasized: "While we are taking steps in the right direction, Americans should continue to be prudent in their energy usage during the course of the next few weeks."
- The Department of Energy has already entered into six separate agreements to loan oil from the Strategic Petroleum Reserve. The crude oil will be loaned from the SPR under short-term contractual agreements and returned to the Reserve once supply conditions return to normal.
 - ExxonMobil Corp. -- 3 million barrels of "sweet" crude and 3 million barrels of "sour" crude.
 - Placid Refining -- one million barrels of sweet crude.
 - Valero -- 1.5 million barrels of sweet crude.
 - BP -- 2 million barrels of sweet crude
 - Marathon -- one million sweet and 0.5 million sour barrels.
 - Total Petroleum -- 0.15 million barrels of sweet and 0.45 million barrels sour crude.
- A group of 26 countries, including the United States, yesterday agreed to release oil, gasoline or other petroleum products from their emergency reserves in an attempt to bring down soaring prices and avert domestic shortages. This could eventually stabilize retail prices and help alleviate scattered shortages in some parts of the U.S. International Energy Agency members countries unanimously agreed to sell on the market a total of 2 million barrels of crude oil and petroleum products per day to make up for disruptions caused by Hurricane Katrina. Sales may last for 30 days but could be extended if needed.
- The Louisiana Offshore Oil Platform (LOOP) is now operational at the Clovelly terminal. Entergy energized a line to Clovelly last evening and the terminal is now capable of operating at approximately 75 percent of capacity. Fourchon terminal remains shut down. General Electric has donated a large generator to the terminal and will help

installation and operations, and the connection of a new, separate power line to Fourchon is expected to take up to two weeks.

- Colonial Pipeline continues to add capacity to both its gasoline and distillate Main Lines, which are now operating at approximately 73% of normal capacity. Distributed generating equipment is now being brought on line, and additional power generation will continue to be brought on line over the next 24 hours. **Colonial is to achieve 86% of normal capacity by midnight tonight (9/4/05.)**
- ESF-12 was 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. OE has issued a call to secure additional staff to supplement and/or replace current, on-site personnel in certain areas with special emphasis on electrical engineers within the Power Marketing Administrations.
- Ten refineries (in tables below) have increased runs over the past 24 hours due to SPR loans and the receipt of crude oil from the Capline pipeline. Entergy reports that power has been restored to all refineries in the southern Louisiana region with the exception of Chalmette, ConocoPhillips Lake Charles, and Murphy's Meraux.
- **DOE provided assistance to a large electricity pole maker in Alabama to obtain fuel so the company could continue to manufacture poles needed for electricity recovery efforts throughout the Gulf Coast region.**

PETROLEUM AND GAS INFORMATION

- According to Saturday's MMS reports, 30 percent of 819 manned platforms and 29 percent of 137 rigs are currently operating in the Gulf of Mexico (GOM).

Saturday's shut-in oil production is 1,184,747 BOPD. The shut-in oil production is equivalent to 78.98% of the daily oil production in the GOM, which is currently approximately 1.5 million BOPD.

Saturday's shut-in gas production is 5.779 BCFPD. This shut-in gas production is equivalent to 57.80% of the daily gas production in the GOM, which is currently approximately 10 BCFPD. This represents a 21 percent improvement from yesterday's figures. **MMS will issue its next report on Monday, September 5, 2005 at 1:00 pm CDT.**

- The Department of Energy assisted in making arrangements to distribute 1.2 million gallons of diesel to first responders at 7 sites in Louisiana.
- **The Mississippi River is now open for traffic all the way to Baton Rouge but with "daylight only" limitations. Below mile marker 69, almost 80 percent of navigation aids**

are gone. Above mile marker 69, 93 percent of navigation aids are on station with no lights. Thirteen vessels are in queue to transit up river, including two crude tankers (one to Marathon in Garyville, LA; the other to ExxonMobil in Baton Rouge). Over 70 vessels are in port (no word on how many have requested outbound transit). Tugs are coming on line; no statistics yet on how many. Ferries are working up and down river evacuating people.

- Mobile Bay Alabama’s Marine Bulk Liquid Terminal reopened to traffic on Thursday as power was restored. On Saturday, an obstruction was identified in the channel, which has stopped cargoes of petroleum products. Movement of ships has been limited to drafts of 27 feet or less until the obstruction has been identified and removed. The Intra Coastal Waterway around Mobile is closed due to destruction of navigation markers. The waterway is being surveyed to place new markers.

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 – increasing, receiving SPR
Valero	Krotz Springs	LA	80,000	Reduced Runs –expecting full rate by Tuesday – receiving SPR
Placid Oil*	Port Allen	LA	48,500	OK – receiving SPR
ConocoPhillips*	Belle Chasse	LA	247,000	Shutdown – no power - major damage
Marathon	Garyville	LA	245,000	Restarting - may be fully operational by Monday
Motiva (Shell)	Convent	LA	235,000	Shutdown – limited damage, may restart this weekend
Motiva (Shell)	Norco	LA	226,500	Shutdown – limited damage, may restart next week
Shell Chemical	St Rose	LA	55,000	Shutdown – no information
Exxon	Chalmette	LA	187,200	Shutdown – no power - water damage
Valero	St. Charles	LA	185,000	Restarting but may take up to two weeks to be operational
Murphy	Meraux	LA	120,000	Shutdown – no power - water damage
ChevronTexaco*	Pascagoula	MS	325,000	Shutdown -- major damage
Shell Chemical	Saraland	AL	80,000	Shutdown

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
Total*	Port Arthur	TX	211,500	Returning to full rate – receiving SPR
Citgo*	Lake Charles	LA	324,300	OK receiving crude
ConocoPhillips*	Lake Charles	LA	239,400	Returning to full rate

Capline Pipeline – Midwest Refiner Impacts

Refinery	Location	State	Capacity (bbl/day)	Impact
BP	Whiting	IN	410,000	OK – receiving SPR
BP	Toledo	OH	160,000	OK – receiving SPR
ExxonMobil*	Joliet	IL	238,000	OK
PDV Midwest	Lemont	IL	160,000	OK
Marathon	Robinson	IL	192,000	OK
Marathon	Catlettsburg	KY	222,000	Reduced runs may be at full capacity by Monday
Marathon	Detroit	MI	74,000	OK
Marathon	Canton	OH	73,000	OK
ConocoPhillips	Wood River	IL	306,000	OK
Premcor*	Memphis	TN	180,000	OK – receiving SPR
Premcor	Lima	OH	158,400	OK – receiving SPR

* 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
Alabama	74,002	3%
Louisiana	639,392	59%
Mississippi	550,773	47%
Total	1,264,167	26%

*Louisiana data is reported by the Louisiana Public Service Commission and their percentage outage numbers are used in the table and in calculating the percentage of total outage.

STATE REPORTS

Alabama

- In Alabama, 74,002 customers remain without power. This represents 3 percent of total customers in the state.

- Alabama Power has restored power to 95 percent of customers statewide who were affected by Hurricane Katrina. As of 8:00 a.m. Sunday 9/4/05, 67,770 customers remained without power statewide, down from a peak of 636,400. The company anticipates ninety-nine percent of all Alabama Power customers will be restored by September 7.
- Alabama's transmission system now has restored service to all load serving substations but one, which was heavily damaged.
- Cooperatives and Municipals report two percent or less of customers remain without power.

	Total # of Customers	Peak Outage	Current Outage	% Outage	% of Customers Restored
Alabama Power	1,400,000	636,400	67,770	4.8%	95%
Coops	491,500	116,409	6,232	1.3%	98%
Municipals	495,000	115,000	**	2%	98%
TOTAL	2,386,500	867,809	74,002	3.1%	97%

Mississippi and Louisiana

- Louisiana has 639,392 customers remaining without power as reported by the Louisiana Public Service Commission (10:00 PM 9/3).
- As of 11 PM September 3, Mississippi has approximately 550,773 customers without power, 47 percent of customers in the state. Of these, 85,572 are Entergy customers; 159,339 are Mississippi Power customers; 303,517 are Mississippi Electric Power Association customers; and 9,285 are TVA customers. Mississippi Power estimates that it may take as long as four weeks to restore power in hard-hit areas.
- Mississippi Electric Power Associations has 5,350 workers involved in the restoration. More than 50,000 utility poles were destroyed. Mississippi Power reports more than 5,000 outside workers have arrived in the company's service area to assist with the effort, with another 3,000 scheduled to arrive by the end of the day today. New damage assessments indicate more than 750 miles of lines are on the ground across Mississippi Power's system. Nearly 5,000 poles will have to be replaced, and thousands more repaired.
- As of 6 PM Saturday, Mississippi Power Company (MPC) had restored transmission service to two-thirds of their load serving substations. This means that these substations are ready to serve customers when the distribution lines are restored to service. They are currently working to restore the 230kV loop through MPC by this weekend. Several 115kV lines are now energized and service has been restored to about half of MPC's load serving substations.
- Entergy has more than 9,000 line and vegetation workers, plus support, committed to restoring service. Line crews from Massachusetts, Missouri, and Virginia are working with the 4,000 Entergy workers to restore power. Crews in Mississippi have turned their attention

to making repairs to electrical facilities that will return service to the largest number of customers in the shortest period of time. In Louisiana, crews are working their way into the most heavily damaged areas, restoring service as they go

Florida

- The Florida Reliability Coordinating Council is continuing its Generating Capacity Alert from September 2 through September 5, and is calling for public appeals for conservation of electricity. Thirty to thirty-five percent of the region generates electricity from natural gas, which normally enters Florida via two pipelines originating in the Gulf of Mexico. **FL utilities continuing to operate in a mode to conserve fuel. There are currently no capacity issues and utilities are able to meet minimum generation needs. Utilities report that they have supplies of petroleum to meet electricity generation.**

- **The Panhandle region is currently reporting outages of gasoline at retail gasoline stations. The Secretary of the Department of Environmental Protection has notified fuel dealers to coordinate with their suppliers to obtain needed deliveries.**