

OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Hurricane Katrina Situation Report #19
September 3, 2005 (5:00 PM EDT)

HIGHLIGHTS

- Approximately 1.3 million customers remain without electric power due to Hurricane Katrina in Alabama, Louisiana, and Mississippi, or 27 percent of customers. (See table below). Inaccessibility as well as extensive damage from flooding and saltwater continue to be major issues impacting electricity restoration.
- On Friday, the DOE briefed Governors' staffs and Congressional staff on the status and pace of energy infrastructure recovery. DOE's Offices of Electricity Delivery and Energy Reliability (OE); the Energy Information Administration; and the Office of Policy and International Affairs participated. OE has also participated on conference calls with state energy offices nationwide to discuss plans for dealing with energy supplies issues.
- On late Friday, EPA issued a waiver that allows marketers in the State of Virginia to sell conventional gasoline in place of reformulated gasoline (RFG). The waiver was granted because an "acute shortage" of RFG. The waiver will run through September 9 and covers Stafford, Charles City, Chesterfield, Colonial Heights, Hanover and Henrico counties, as well as the cities of Hopewell and Richmond.
- 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. Lines 1 and 2, which run from Houston, TX, to Greensboro, NC, are now operating at approximately 70% 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 expects to achieve 77% of normal capacity by midnight Saturday (9/3/05), and 86% of normal capacity by midnight Sunday (9/4/05.)

- The Plantation Pipeline is now running at 100 percent capacity.
- The Department of Energy has entered into **six** separate agreements to loan oil from the Strategic Petroleum Reserve. The first agreement, between the Department of Energy and ExxonMobil Corp. is for a loan of 3 million barrels of “sweet” crude and 3 million barrels of “sour” crude oil. The second agreement between the Department of Energy and Placid Refining is for one million barrels of sweet crude oil. The third is for 1.5 million barrels of sweet crude to Valero. The fourth and fifth loans were to BP for 2 million barrels and Marathon 1.5 million (one million sweet and .5 million sour) barrels respectively. **The sixth loan is to Total Petroleum company of .600 million barrels of sour crude.** 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.
- 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. 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.**

PETROLEUM AND GAS INFORMATION

- **According to the 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). The number of manned platforms that are evacuated declined 25 percent from yesterday.**

Today’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. This represents a 10 percent improvement from yesterday’s figures.

Today’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.

- **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 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	74,725	3%
Louisiana	668,861	62%
Mississippi	591,548	42%
Total	1,335,134	27%

*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, 74,725 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 3:30 p.m. Saturday 9/3/05, 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.

- 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	6,955	1.7%	92%
Municipals	495,000	115,000	**	2%	98%
TOTAL	2,386,500	867,809	74,725	3.1%	97%

Mississippi and Louisiana

- Louisiana has 668,861 customers remaining without power as reported by the Louisiana Public Service Commission (12:00 PM 9/3).
- As of 9AM September 3, Mississippi has approximately 591,548 customers without power, 42 percent of customers in the state. Of these, 95,103 are Entergy customers; 159,570 are Mississippi Power customers; 317,363 are Mississippi Electric Power Association customers; and 19,512 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 4,000 outside workers have arrived in the company's service area to assist with the effort, with another 3,000 scheduled to arrive within the next two days. 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.
- Entergy 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. Also, Florida does not have any major underground storage facilities from which to withdraw

natural gas reserves. Supply and distribution of natural gas from the Gulf have been significantly reduced.