

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)**  
**U.S. DEPARTMENT OF ENERGY**  
**Hurricane Katrina Situation Report #29**  
**September 9, 2005 (10:00 AM EDT)**

**HIGHLIGHTS**

- Currently, 664,215 customers remain without electric power in Louisiana and Mississippi due to Hurricane Katrina. This is down by over 2 million from a peak of 2.7 million customers that were without power after Hurricane Katrina struck the region.
- The DOE Energy Information Administration has reported that U.S. gasoline demand fell 4 percent last week, while stocks of gasoline also fell below the average range from the previous week. EIA reports that U.S. gasoline use declined from 9.4 million barrels per day to about nine million barrels per day for the week ending 9/2/05.
- The Dixie Propane Pipeline is currently running at full capacity; however, the Hattiesburg, MS, terminal remains without power.
- The LOOP expects to be operating at 100 percent within the next week, when Fourchon becomes operational. Currently the LOOP is still operating at 75 percent.
- Natural gas transmission pipelines in the path of Katrina survived with minimal damage. Four natural gas processing plants accounting for roughly 5.5 billion cubic feet per day are currently not operating due to hurricane-induced damage. These plants can potentially be bypassed for a period of time while repairs are made with an acceptable impact on natural gas specifications.
- Mississippi Power reports that over 90% of those customers who can receive power will be back in service by Saturday. Mississippi Power estimates that approximately 168,000 of its 195,000 customers will be able to receive service during the initial restoration. Some 27,000 customers are currently unable to receive power. Entergy also reports that most of its Mississippi customers will have power restored by then as well.
- According to coal analysts, it is estimated that Hurricane Katrina may impact coal consumption this fall because coal-fired plants that typically ramp down following the peak summer months may be required to continue generating at high levels to make up for the gap caused by damage to gas production.
- NOAA reports that the center of Tropical Storm Ophelia was located about 115 miles east of Daytona Beach Florida and is moving toward the North-Northeast near 6 MPH with a turn to the Northeast expected during the next 24 hours. The storm has weakened with maximum sustained winds near 65 miles per hour; however, the storm has the potential to re-strengthen to a hurricane over the next day or so. There is also another formation in the western Gulf which bears watching and we will.

- DOE staff are at the National Response Coordination Center (NRCC) at FEMA HQ, the Interagency Incident Management Team at HQ, FEMA Regions IV and VI, and the State Emergency Operation Centers (EOC) in Louisiana and Mississippi.

**PETROLEUM AND GAS INFORMATION**

- According to Thursday’s MMS reports, 15.26 percent of 819 manned platforms and 3.73 percent of 137 rigs remain evacuated in the Gulf of Mexico (GOM). Yesterday's shut-in oil production was 901,726 BOPD. The shut-in oil production is equivalent to 60.1 percent of the daily oil production in the GOM, which is currently approximately 1.5 million BOPD. Tuesday's shut-in gas production was 4.020 BCFPD. This shut-in gas production is equivalent to 40.2 percent of the daily gas production in the GOM, which is currently approximately 10 BCFPD. **MMS will issue an update this afternoon but will not issue another one until Monday.**

**Improvement in GOM Shut-in Oil and Gas 8/30/05 – 9/8/05**

<b>Date</b>	<b>Percent of GOM Oil Shut-in</b>	<b>Percent of GOM Gas Shut-in</b>
August 30	95.20	87.99
August 31	91.45	83.46
September 1	90.43	78.66
September 2	88.53	72.48
September 3	78.98	57.80
September 4	No data reported	No data reported
September 5	69.57	54.13
September 6	58.02	41.06
September 7	57.37	40.36
September 8	60.12 *	40.20

\*Oil Production Shut-ins continue to decline, despite the apparent rise in the figures released by MMS. According to MMS, this rise in the statistics occurred today because a company just reported a significant amount of shut-in oil production today that has been shut-in since the hurricane hit, but was not reported as such due to communications problems.

- **MMS reported that 52 energy-production platforms in the Gulf of Mexico were missing and 58 were damaged by the hurricane, nearly double the number of missing or damaged platforms reported 9/6. Workers have returned to many offshore platforms restoring about half of the daily output from the Gulf but recovery has slowed. The Wall Street Journal reports that the “bearish news on the pace of infrastructure repairs raised specific concerns about the supply of natural gas for the coming home-heating season.” Companies continue to assess damage in the Gulf to determine which pipelines, hub facilities, and platforms will require repairs.**
- **Entergy Gas Operations is continuing with assessment and restoration efforts in the French Quarter, Central Business District (CBD) and Uptown New Orleans. The natural gas system in Algiers is completely restored. For the first time ever, the company is accepting help from mutual assistance companies in other states.**
- **Entergy crews in Louisiana were to assess the relaying at the BP Alliance 34.5kV substation last night but we do not have an update on that assessment yet. This will**

provide service to the ConocoPhillips (Belle Chasse) refinery. Additional assessments of the substations that connect to the ExxonMobil/PDVSA (Chalmette) and Murphy (Meraux) refineries will also continue today.

**Natural Gas Processing Plant Status 9/8/05 2:00PM**

	Natural Gas Processing Plant	Capacity/ Throughput (2004 avg) (MMcfd)*	Pipeline Feed	Current Status
1	Duke Energy – Mobile Bay, AL	600/172	Dolphin Is, Transco, Gulfsteam	Available for service but waiting on pipeline outlet for liquids.
2	BP – Pascagoula, MS	1000/768	Destin	Minor damage, Waiting on power
3	Dynegy – Venice, LA	1300/997	Southern NG, Gulf South, Columbia	Damage. Could take 3-6 months to repair.
4	Dynegy – Yscloskey, LA	1850/1343	Tennessee	Damage. Could take 3-6 months to repair.
5	Enterprise Prod. – Toca, LA	1100/468.4	Gulf South	Assessment ongoing.
6	ExxonMobil – Garden City, LA	630/NA	LA Intrastate, Cypress	Waiting on power
7	ExxonMobil – Grand Isle, LA	115/72	Tennessee	Waiting on power
8	Marathon – Burns Point, LA	200/60	Nautilus, Southern NG	Waiting on power

- The lower Mississippi is open during daylight hours only to traffic with drafts of at least 39 feet. The Gulf Intracoastal Waterway (GIWW) was opened to traffic across areas of Louisiana Tuesday, with the exception of the Inner Harbor Navigational Canal (IHNC) which remains closed. Vessels may access the east of the IHNC via the Baptiste Collette alternate route. There is a draft limitation of 9.5 feet in the Baptiste Collette route.
- The Port of New Orleans now reports that its headquarters building has power. The port is not open to commercial traffic; however, officials have set a goal by September 14 to allow commercial cargo ships enter the port. The Port is currently berthing military and relief vessels.
- The Tables below show, as of 9/8/05, the current status of the refineries impacted by Hurricane Katrina. Improvements continue in the Southeast refinery complex.

**Table 1. Shutdown Refineries**

Refinery	Location	State	Capacity (bbl/day)	Current Status
ConocoPhillips*	Belle Chasse	LA	247,000	No power - major damage
ExxonMobil	Chalmette	LA	187,200	No power - water damage
Motiva (Shell)	Norco	LA	226,500	Limited damage, continue to make repairs – expecting to restart later this week
Murphy	Meraux	LA	120,000	No power – water is starting to recede, currently making assessment of damage, leaking crude oil tank repaired
Shell Chemical	St Rose	LA	55,000	Awaiting Norco restart
ChevronTexaco*	Pascagoula	MS	325,000	Damage unknown – assessment being made

**Table 2. Refineries with Reduced Runs**

Refinery	Location	State	Capacity (bbl/day)	Current Status
Marathon	Garyville	LA	245,000	Restarted – expecting full operation by the end of today
Motiva (Shell)	Convent	LA	235,000	Restarted – operating at 75 percent rate expect full production later this week.
Valero	Krotz Springs	LA	80,000	Close to 100 percent - receiving SPR
Valero	St. Charles	LA	185,000	Restarting – expecting to be fully operational within one week.

**Table 3. Refineries at Normal Production**

Refinery	Location	State	Capacity (bbl/day)	Current Status
Shell Chemical	Saraland	AL	80,000	Operating at full rate for gasoline and reduced rate for chemicals and other products
ConocoPhillips	Wood River	IL	306,000	OK
ExxonMobil*	Joliet	IL	238,000	OK
PDV Midwest	Lemont	IL	160,000	OK
Marathon	Robinson	IL	192,000	OK
BP	Whiting	IN	410,000	OK – receiving SPR
Marathon	Catlettsburg	KY	222,000	OK
Citgo*	Lake Charles	LA	324,300	OK
ConocoPhillips*	Lake Charles	LA	239,400	OK
ExxonMobil*	Baton Rouge	LA	493,500	OK – receiving SPR
Placid Oil*	Port Allen	LA	48,500	OK – receiving SPR
Marathon	Detroit	MI	74,000	OK
BP	Toledo	OH	160,000	OK – receiving SPR
Marathon	Canton	OH	73,000	OK
Premcor	Lima	OH	158,400	OK – receiving SPR
Premcor*	Memphis	TN	180,000	OK – receiving SPR
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	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
Louisiana*	445,565	40%
Mississippi	218,650	15%

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

## STATE REPORTS

### Mississippi and Louisiana

- In Louisiana 445,565 customers remain without power, as reported by the Louisiana Public Service Commission (LAPSC) (8:00 PM 9/8/05).

#### Louisiana Outage Data by Parish (8:00 PM 9/8/05)

UTILITY	OUTAGES	% customers w/o power
Jefferson	121492	58%
Lafourche	1,925	3%
Livingston	2,497	5%
Orleans	182,152	89%
Plaquemines	3,013	32%
St. Bernard	28,308	99%
St. Tammany	75,193	71%
Tangipahoa	11518	20%
Washington	17,989	68%

\*Louisiana data and percentages are reported by the Louisiana Public Service Commission. Only Parishes with outages of more than 1,000 customers are shown

#### Louisiana Outage Data by Utility (8:00 PM 9/8/05)

UTILITY	OUTAGES	% customers w/o power
Entergy Louisiana	169,112	35%
Entergy Gulf States	0	0%
Entergy New Orleans	182,152	89%
DEMCO	1,533	2%
SLECA	362	2%
Wash-St. Tammany	40,650	90%
CLECO	51,756	64%
Total	445,565	40%

\*Louisiana data and percentages are reported by the Louisiana Public Service Commission.

- As of 9:30 PM Thursday 9/8/05, Mississippi had 218,650 customers without power, which represents 15 percent of customers in the state, including 6,750 Entergy customers, 84,530 Mississippi Power customers, and 127,370 customers of the Electric Power Associations of Mississippi (EPAOFMS). Both Mississippi Power and Entergy predict that most customers who can receive power, will have power restored by 9/11/05. EPAOFMS estimates restoration will not occur until later next week.
- Entergy reports that it has restored electrical service to more than 2/3 of the 1.1 million customers affected by Hurricane Katrina. They are the principal service provider for New Orleans and they expect that it “will take extended time - months - to restore. Those that are not flooded had widespread damage.” Flooding, blocked access or other obstacles continue to hamper restoration. They have reenergized six of their substations within the city and restored distribution on a very limited basis. Within the Central Business District several of the large hotels along with Bell South's operations center are energized. The company reports that they are still several days from being able to begin providing service to the French Quarter.
- At this time, the fact that the Waterford 3 nuclear power plant is offline is not causing problems or concerns with regard to Entergy's ability to meet load demands. Entergy plans to restart Waterford 3 and is going through the procedures and steps that are required to do so.
- Cleco Corp., a Co-op servicing Louisiana, estimated on 9/7/05 that it will have power restored to 80 percent of its customers who can take electricity within the next two weeks.
- Mississippi Power lost all of its systems, including telecommunications, and suffered extensive facilities damage, including the use of all generating units at Plant Watson in Gulfport. Mississippi Power reports that several staging areas are housing and feeding more than 1,000 workers each. More than 5,000 vehicles are being fueled each day. Employees at the Gulfport Service Center unloaded 60 semi-trailers of materiel yesterday in a 24-hour period. To date, more than 6,000 poles and 1,000 miles of wire have been delivered and distributed throughout the company's service area. Mississippi Power's workforce of 1,200 employees is being supplemented by more than 9,200 transmission and distribution workers from around the country.
- The EPAOFMS reports that all 25 electric power associations suffered some loss of service during the storm. Fifteen of those co-ops have completely restored power. Coast Electric Power Association in Bay St. Louis and Southern Pine Electric Power Association in Taylorsville are currently reporting the most customers are without power. More than 7,605 co-op crew members from Mississippi and 14 other states as far away as Pennsylvania are assisting in restoration in the state.

## **Florida**

- The Florida Reliability Coordinating Council (FRCC) State Capacity Emergency Coordinator has discontinued all Generating Capacity Advisories and Alerts associated

with the impacts of Hurricane Katrina on fuel supplies to electric generating facilities within the FRCC as of Thursday, September 8th, 2005.