

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)**  
**U.S. DEPARTMENT OF ENERGY**  
**Hurricane Katrina Situation Report #30**  
**September 9, 2005 (6:00 PM EDT)**

**HIGHLIGHTS**

- Currently, 607,655 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.
- This afternoon, the Environmental Protection Agency extended two waivers for the Richmond, VA, and Atlanta, GA, areas. A second reformulated gasoline (RFG) waiver for the Richmond, VA, area was issued due to continued shortages of RFG. The waiver, which expired today, is now extended through September 23, 2005. A second extension was issued for counties in the Atlanta area waiving gasoline RVP and sulfur regulations until midnight on October 5, 2005.
- 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 about 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 less than 6,000 of its customers remain without power in Mississippi and that they should have power by 9/10.**
- 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 continues to monitor Tropical Storm Ophelia located off the coast of Florida. One model suggests it may yet re-intensify and make an Atlantic Coast landfall.
- 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 MMS reports on 9/9, 15.1 percent of 819 manned platforms and 2.99 percent of 137 rigs remain evacuated in the Gulf of Mexico (GOM). Yesterday's shut-in oil production was 898,161BOPD. The shut-in oil production is equivalent to 59.9 percent of the daily oil production in the GOM, which is currently approximately 1.5 million BOPD. Shut-in gas production was 3.829 BCFPD. This shut-in gas production is equivalent to 38.3 percent of the daily gas production in the GOM, which is currently approximately 10 BCFPD. MMS will issue an update on 9/10 at 2:00PM.

- **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
<b>September 9</b>	<b>59.88</b>	<b>38.29</b>

\*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.

- For the first time ever, Entergy Gas Operations in Louisiana has accepted staff from mutual assistance companies including Miller Pipeline of Indianapolis, Centerpoint Energy of Houston, Baltimore Gas & Electric, Peco Energy of Philadelphia, One Oak, Inc. of Austin TX, Mobile Gas from Mobile, Alabama, Avista Utilities from Washington D.C., Laclede Gas of St. Louis, MO, and Connecticut Natural Gas Company.

## 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

- According to Coast Guard, navigational markers are now in place at Gulfport, MS main shipping channel. The channel is 16 miles long from Gulf of Mexico to the Gulfport.
- According to Alabama Port Authority, the Mobile Ship Channel is now open to 43 feet draft and has returned to two-way, 24-hour vessel movement. It will take a minimum of 30 days to restore the Channel to a draft of 45 feet.
- The Tables below show, as of 9/9/05, the current status of the refineries impacted by Hurricane Katrina. Four **major** refineries remain shut down.

**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
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
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Motiva (Shell)	Convent	LA	235,000	Restarted – operating at 90 percent rate expect full production later this week.
Motiva (Shell)	Norco	LA	226,500	Restarting

**Table 3. Refineries at Normal Production**

Refinery	Location	State	Capacity (bbl/day)	Current Status
Shell Chemical	Saraland	AL	80,000	OK
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
Marathon	Garyville	LA	245,000	OK
Placid Oil*	Port Allen	LA	48,500	OK – receiving SPR
Valero	St. Charles	LA	185,000	OK
Valero	Krotz Springs	LA	80,000	OK
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	162,090	11%

\*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 latest report).

#### **Significant 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%
<b>Total</b>	<b>445,565</b>	<b>40%</b>

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

- As of 2:00 PM 9/9/05, Mississippi had 162,090 customers without power, which represents 11 percent of customers in the state, including 5,472 Entergy customers, 50,988 Mississippi Power customers, and 105,630 customers of the Electric Power Associations of Mississippi (EPAOFMS).
- Katrina affected 37,000 square miles, or roughly one third of Entergy's service territory. The storm passed 3,000 miles of transmission lines and 30,000 miles of distribution lines. At its worst point, Entergy had a total of 660 transmission line-miles, 263 substations and 1,560 distribution feeders out of service. A significant portion of New Orleans is flooded and substations will take extended time - months - to restore. Those that are not flooded

had widespread damage. Entergy has reenergized six substations within the city and restored distribution on a very limited basis, extensive restoration work remains outside the city that the company will complete first.

- In Louisiana, more Entergy crews are moving into the Hammond, Amite and Bogalusa areas. They are also moving resources into the Metro New Orleans area as access permits. Heavy damage, restricted access, and congestion in urban areas will slow the pace of remaining restoration. In New Orleans, crews have made progress toward getting service to some of the city pumping stations and the Central Business District. Several of the large hotels along with Bell South’s operations center are energized. Entergy is still several days from being able to begin providing service to the French Quarter.
- Entergy reports extensive damage in south Mississippi, with a large number of rural cases that will take an extended time to complete.
- Mississippi co-ops report that more than 7,900 emergency work crew members from Mississippi and 17 states are assisting in restoration. These states are: Georgia, South Carolina, North Carolina, Kentucky, Virginia, Ohio, Tennessee, Missouri, Illinois, Indiana, Florida, Pennsylvania, Alabama, Kansas, Iowa, Maryland and Delaware.
- Entergy reports extensive resources from around the country helping to restore service. Entergy has more than 10,000 line and vegetation workers, plus support, committed to restoring service. More personnel are arriving and Energy continues working to bring in additional restoration personnel. See tables below.

**Entergy Mississippi – Utility and Contractors Supporting Electricity Restoration**

ABC Tree	Entergy Mississippi	LE Meyers	PPL
ACRT	First Energy	Magnoila Tree	Quality Line
Asplundh	Hawkeye	MDR	RS Electric
B&B	Higher Ground	N.G. Gilbert	SEC
Baltimore Gas & Electric	Hinkles & McCoy	Nelson Tree	Shaw Electric
C&C Powerline	Hooper	New River	SPE
C&M Pole Line	J.F. Electric	Omaha Public Power	SPE-Campbell
Capital Electric	Just Engineering	PAR	Sumter
Energy Group	Kansas City P&L	Pieper	Thompson Electric
Entergy Arkansas	KCI	Pike	Townsend Tree
	Kendall	Pinline Tree	USS
			West Tree

**Entergy Louisiana – Utility And Contractors Supporting Electricity Restoration**

AEP	F&H Contractors	Lee Electrical	Serco
Ameren UE	First Energy	M&M Electric	Service Electric
Aspludh	Fishel Co.	Mastec	Shaw EDS
Austin Electric	Florida Power & Light	Midwestern Electric	Shaw Electric Group
B&D Electric	Flowers Electric	Mills Electric Service	South Florida Pole
Baltimore Gas & Electric	G&G Electric	Nebraska Power District	Works
BBC Electric	GayCo	New River Electric	Southeast Power Corp
	Gregory Electric	NG Gilbert	Southern Electric

C&C Pole Line Construction Capital Electric CenterPoint Cinergy City Lights Electrical CPS Energy Solutions CW Wright Davis Elliott Denton Municipal Electric Detroit Edison Dillard Smith Dominion Duke Energy Delivery	Hawkeye Electric Henkels & McCoy Hooper Line Hydaker-Wheatlake Company Indianapolis Power & Light Infrasource Irby J&L Utility JF Electric Kansas City Power & Light Lafayette Utility Services LE Myers	NHPL Northeast TX Electric Omaha Public Power PAR Electric Pieper Line Pike Electric PPL Progress Energy Public Service Company of New Mexico Quality Lines Construction R/S Electric Richardson Electric RWC	SPE Utility Co. Sumter Tampa Electric Company Texas Electric The Energy Group Thompson Electric TX-New Mexico TXU Utility Lines Construction Wellsbac Electric Westar Williams Electric
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