

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)  
U.S. DEPARTMENT OF ENERGY  
Hurricane Katrina Situation Report #36  
September 15, 2005 (2:00 PM EDT)**

**HIGHLIGHTS**

- Currently, 341,935 customers remain without electric power in Louisiana and Mississippi due to Hurricane Katrina. This is down by over 2.3 million from a peak of 2.7 million customers that were without power after Hurricane Katrina struck the region.
- On September 14, the Federal Motor Carrier Safety Administration extended the driver-hour waiver for motor carriers hauling gasoline, propane, diesel, jet fuel, natural gas/CNG, and ethanol in the Southern and Eastern regions of the country in response to fuel supply circumstances resulting from Hurricane Katrina and to EPA's recent extended fuel waiver. The waiver will expire on October 5, 2005.
- The DOE Energy Information Administration reported (9/14/05) that gasoline demand is estimated at 8.63 million barrels per day for the week ending 9/9/05, down 4.3 percent from the week before and 6.5 percent less than the comparable week in 2004. Gasoline demand fell 4 percent for the week that ended Sept. 2. U.S. commercial crude oil inventories (excluding those in the Strategic Petroleum Reserve) fell by 6.6 million barrels from the previous week. At 308.4 million barrels, U.S. crude oil inventories remain above the upper end of the average range for this time of year. Total motor gasoline inventories rose by 1.9 million barrels last week, putting them at the bottom end of the average range. Distillate fuel inventories decreased by 1.1 million barrels last week and are above the upper end of the average range for this time of year.  
[http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/weekly\\_petroleum\\_status\\_report/current/txt/wpsr.txt](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/weekly_petroleum_status_report/current/txt/wpsr.txt)
- On 9/13, EPA extended the diesel waiver for States located in PADD 1 (DC, ME, NH, VT, MA, RI, CT, NY, NJ, PA, MD, DE, WV, VA, NC, SC, GA, and FL) and PADD 3 (NM, TX, LA, MS, AL, and AR), including Tennessee to allow the use of high sulfur diesel for on-road use until October 5, 2005.
- DOE staff have been at the National Response Coordination Center (NRCC) at FEMA HQ, the Interagency Incident Management Team at HQ, FEMA Region IV, and the State Emergency Operation Centers (EOC) in Louisiana for several weeks.

**PETROLEUM AND GAS INFORMATION**

- According to MMS reports on 9/15, 10.26 percent of 819 manned platforms and 1.49 percent of 134 rigs remain evacuated in the Gulf of Mexico (GOM). Today's shut-in oil production is 842,091 barrels of oil per day. The shut-in oil production is equivalent to 56.1 percent of the normal daily oil production in the GOM, which is currently

approximately 1.5 million barrels of oil per day. Shut-in gas production is 3.411 billion cubic feet per day. This shut-in gas production is equivalent to 34.1 percent of the normal daily gas production in the GOM, which is currently approximately 10 billion cubic feet per day. According to MMS, approximately 35 percent of shut-in oil is as a result of problems with onshore infrastructure.

▪ **Improvement in GOM Shut-in Oil and Gas 8/30/05 – 9/15/05**

<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
September 9	59.88	38.29
September 10	59.84	38.21
September 11	No data reported	No data reported
September 12	57.38	37.84
September 13	56.45	37.20
September 14	56.25	35.18
<b>September 15</b>	<b>56.14</b>	<b>34.11</b>

- Entergy reports that they have activated gas supply to Folgers (coffee) and NASA, both key industrial customers in New Orleans East. Entergy Gas Operations has performed assessments in the Carrollton, Broadmoor and Downtown areas where flood waters have receded. Restoration to approximately 30 percent of the area that was dry is complete. The area assessed in Carrollton is bounded by Claiborne Ave. to the Palmetto, and Orleans-Jefferson Parish line to Carrollton. Meters are being shut off and secured. Entergy continues to make detailed leak survey assessments in Algiers (where gas is fully restored) and no leaks have been found. This same shut-and-lock process is ongoing in the French Quarter where the company reports that progress is being slowed due to locked doors and alley gates. They are working with the French Quarter Municipal Council, police and fire officials to coordinate gaining access to shut off and lock gas services. The gas system in this area has extensive water intrusion which will require the shut off of service and mitigation before gas service can be resumed.
- The Coast Guard and its industry partners have established a Joint Information Center to support the response to seven major oil spills in the southern Louisiana area following Hurricane Katrina.
- The Port of New Orleans has opened to commercial traffic with two of the port's 27 terminals now open. On 9/14 the first vessel left the port in more than two weeks.
- See the attached tables of natural gas pipelines and processing plants located on the Gulf Coast.

Natural Gas Transmission Pipeline Status (9/13/05 PM)

Pipeline	Primary Markets	Capacity (MMcfd)	Impacts
ANR Pipeline	Midwest	6,414	None reported
Florida Gas Transmission	Florida	2,150	10% overage limit (9/13/2005)
Gulf South	Gulf States	2,750	Allocations in categories other than Primary Firm service
Southern Natural Gas	Southeast	3,296	550 mmcfd production shut in
Tennessee Gas	Northeast	6,937	700 mmcfd production shut in
Texas Eastern Transmission	Northeast	5,939	Deliveries allowed only for confirmed receipts
Trunkline Gas	Midwest, East Coast	1,500	Deliveries allowed only for confirmed receipts
Transco	Northeast	8,100	None Reported
Gulfstream	Florida	1,100	Deliveries allowed only for confirmed receipts

Natural Gas Processing Plant Status (9/13/05)

Natural Gas Processing Plant	State	Capacity as of Jan 1, 2005 (MMcfd)*	2004 Average Throughput (MMcfd)**	Current Status
Dynegy - Yscloskey	LA	1,850	1,343	Seawater damage. Could take 3-6 months to repair.
Dynegy - Venice	LA	1,300	997	Seawater damage. Could take 3-6 months to repair.
Enterprise Products - Toca	LA	1,100	468	Assessment ongoing.
BP - Pascagoula	MS	1,000	768	Power restored. Waiting for pipelines to deliver gas.
ExxonMobil - Garden City	LA	630	NA	Waiting on power
Duke Energy - Mobile Bay	AL	600	172	Available for service but waiting on pipeline outlet for liquids.
Marathon - Burns Point	LA	200	60	Waiting on power
ExxonMobil - Grand Isle	LA	115	72	Waiting on power

- The tables below show no change in the five shutdown refineries and company confirmation of status of two refineries with reduced runs.

**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	Operating at full capacity
ChevronTexaco*	Pascagoula	MS	325,000	Damage unknown - assessment being made

**Table 2. Refineries with Reduced Runs**

Refinery	Location	State	Capacity (bbl/day)	Current Status
Motiva (Shell)	Norco	LA	226,500	Operating at almost 100% capacity

**ELECTRICITY INFORMATION**

**STATE OUTAGE DATA**

Utility	Customers w/o Power	% Customers w/o Power from Katrina
Louisiana*	283,231	28%
Mississippi	58,704	4%

\*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 283,231 customers remain without power, as reported by the Louisiana Public Service Commission (LAPSC) (11:00 PM 9/15/05 latest report).

**Louisiana Outage Data by Utilities with Significant Outages (11:00 AM 9/15/05)**

UTILITY	OUTAGES	% customers w/o power
Entergy Louisiana	69,628	15%
Entergy New Orleans	166,932	81%
Wash-St. Tammany	21,539	47%
CLECO	24,770	31%
<b>Total for state shown includes companies with low percentage outages not shown in the Table</b>	<b>283,231</b>	<b>26%</b>

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

- As of reporting 9/15/05 Mississippi had 58,704 customers without power, which represents 4 percent of customers in the state, including 19,426 Mississippi Power customers and 39,278 customers of the Electric Power Associations of Mississippi (EPAOFMS).
- Entergy Transmission reports 32 lines and 26 substations out of service as of 5:00AM 9/14/05. In New Orleans East, four additional substations were brought online: Michoud, NASA, Gentilly, and Bayou Sauvage.
- Entergy reports that the repair or replacement of flooded substations will delay restoration of transmission service to several key loads, including refineries downstream of New Orleans, but customers have extensive damage as well. In flooded areas the safety of customer's facilities must be validated by the applicable local authorities before

service can be restored. The repair and inspection of customer facilities may constrain restoration in some areas.

- The following table documents the electricity restoration for Louisiana utilities from August 30 – September 15:

Date		<i>Outages by Utility</i>							<i>Total: All Utilities</i>
		<i>CLECO</i>	<i>DEMCO</i>	<i>EGSI</i>	<i>ELI</i>	<i>ENOI</i>	<i>SLECA</i>	<i>WST</i>	
<b>Tues</b>	<b>8/30</b>	80,810	40,115	97,376	420,711	201,369	13,912	45,000	<b>899,293</b>
<b>Wed</b>	<b>8/31</b>	79,672	29,411	76,681	421,390	215,163	13,912	45,000	<b>881,229</b>
<b>Thur</b>	<b>9/1</b>	79,672	20,652	51,277	391,118	200,751	13,912	45,000	<b>802,382</b>
<b>Fri</b>	<b>9/2</b>	80,800	18,740	36,004	349,816	200,771	362	45,000	<b>731,493</b>
<b>Sat</b>	<b>9/3</b>	77,600	10,039	6,440	294,526	200,751	362	45,000	<b>634,718</b>
<b>Sun</b>	<b>9/4</b>	74,800	10,039	1,362	258,861	200,751	362	45,000	<b>591,175</b>
<b>Mon</b>	<b>9/5</b>	72,200	8,264	420	261,812	200,749	362	44,799	<b>588,606</b>
<b>Tues</b>	<b>9/6</b>	65,800	1,533	35	211,101	197,749	362	43,909	<b>520,489</b>
<b>Wed</b>	<b>9/7</b>	60,066	1,533	0	186,653	184,383	362	43,909	<b>476,906</b>
<b>Thur</b>	<b>9/8</b>	54,027	1,533	0	169,112	182,152	362	40,650	<b>447,836</b>
<b>Fri</b>	<b>9/9</b>	49,650	1,533	0	157,354	181,645	362	40,650	<b>431,194</b>
<b>Sat</b>	<b>9/10</b>	41,894	1,533	858	136,670	179,522	362	36,050	<b>396,889</b>
<b>Sun</b>	<b>9/11</b>	31,897	1,533	502	110,291	176,644	362	31,650	<b>352,879</b>
<b>Mon</b>	<b>9/12</b>	27,058	0	273	93,757	176,124	362	28,669	<b>326,243</b>
<b>Tues</b>	<b>9/13</b>	27,058	0	93	93,379	173,605	362	26,019	<b>320,516</b>
<b>Wed</b>	<b>9/14</b>	24,770	0	3	69,628	166,932	362	21,539	<b>283,231</b>
<b>% Back in Service</b>		<b>69%</b>	<b>100%</b>	<b>100%</b>	<b>85%</b>	<b>19%</b>	<b>97%</b>	<b>52%</b>	<b>74%</b>