

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)  
U.S. DEPARTMENT OF ENERGY  
Gulf Coast Hurricanes<sup>1</sup> Situation Report #24  
October 26, 2005 (4:00 PM EDT)**

**HIGHLIGHTS**

- There are 2,659,024 customers without power in Florida as of 4:00 PM EDT 10/26 due to Hurricane Wilma. This represents about 29 percent of customers in the state.
- Port Everglades is closed to commercial traffic. The port suffered damage and it is unknown when the port will reopen.
- DOE staff are stationed at the Regional Response Coordination Center (RRCC) in Atlanta, Georgia, pursuant to Hurricane Wilma. DOE staff remain at the New Orleans Area Field Office and Joint Field Office in Baton Rouge.

**ELECTRICITY INFORMATION**

**STATE REPORTS**

**Florida**

- As of 4:00 PM EDT 10/26, there are 2,659,024 customers without power in Florida due to Hurricane Wilma.

**Florida Power & Light Outage Data: Hard Hit Counties\***

County	Customers w/o Power	Total Customers Restored	Total Customers Affected	% Customers Restored
Brevard	3,500	76,000	79,500	96%
Broward	838,100	24,700	862,800	3%
Collier	85,600	84,000	169,600	50%
Glades	1,600	1,800	3,400	53%
Hendry	3,800	4,700	8,500	55%
Indian River	24,700	16,900	41,600	41%
Lee	91,300	103,600	194,900	53%
Martin	51,600	33,000	84,600	39%
Miami-Dade	800,400	156,100	956,500	16%
Okeechobee	11,000	4,900	15,900	31%
Palm Beach	593,200	70,300	663,500	11%
St. Lucie	46,400	56,500	102,900	55%

\*Data is from 4:00 PM 10/26 FL EOC report and 1:00 PM 10/26 FPL website update.

**Florida Utility Outage Data: Hard Hit Utilities\***

County	Customers w/o Power	Total Customers	% Customers w/o Power
Florida Power & Light	2,552,000	4,343,095	59%

Municipals	62,921	1,268,280	5%
Cooperatives	44,103	949,925	5%
<b>Total includes companies with low number of outages not included in Table</b>	<b>2,659,024</b>	<b>9,138,533</b>	<b>29%</b>

\*Data is from 4:00 PM 10/26 FL EOC report

- FPL said that the most severe damage has been to poles, wires, and substations and priority is being given to fixing damage to large, high voltage transmission lines and substations. FPL’s preliminary assessments indicate that the worst damage occurred in Broward and southeastern Palm Beach counties. The company has a restoration team of 6,000 workers in the field and additional personnel will continue to arrive from outside of Florida through next week.
- As of 10/25/05 the National Rural Electric Cooperative Association reported that of the three Florida electric cooperatives affected by Hurricane Wilma, Lee County Electric Cooperative and Florida Keys Electric Cooperative expect to have the majority of customers restored by the weekend. Glades Electric Cooperative has over 100 transmission poles to replace and is reporting substantial damage to the distribution system, most of which is located in very rural areas.
- Port Everglades is closed to commercial traffic. The port suffered damage and it is unknown when the port will reopen.

**ESTIMATED RESTORATION DATES – HURRICANE WILMA**

County	Florida Power & Light	Municipal Utilities	Cooperative Utilities
<b>Broward</b>			<b>Nov. 13 – Midnight</b>
<b>Charlotte</b>			<b>Oct. 30 – Midnight</b>
<b>Collier</b>	<b>Nov. 15 – Midnight</b>		<b>Nov. 15 – Midnight</b>
<b>Dade</b>	<b>N. of Kendall Dr. – Nov. 22 – Midnight S. of Kendall Dr.- Nov. 8 – Midnight</b>	<b>Oct. 31 - Midnight</b>	
<b>Glades</b>	<b>Nov. 8 – Midnight</b>	<b>Oct. 31 – Midnight</b>	<b>Nov. 20 – Midnight</b>
<b>Hendry</b>	<b>Nov. 15 – Midnight</b>	<b>Oct. 31 – Midnight</b>	<b>Nov. 20 – Midnight</b>
<b>Highlands</b>			<b>Oct. 30 – Midnight</b>
<b>Indian River</b>	<b>Nov. 8 – Midnight</b>	<b>Oct. 29 - Midnight</b>	
<b>Lee</b>	<b>Nov. 15 – Midnight</b>		<b>Nov. 15 – Midnight</b>
<b>Monroe</b>		<b>Oct. 31 – Midnight</b>	<b>Oct. 29 – Midnight</b>

<b>Okeechobee</b>	<b>Nov. 8 – Midnight</b>		<b>Nov. 8 – Midnight</b>
<b>Palm Beach</b>	<b>E. of turnpike &amp; N. of PGA – Nov. 15 – Midnight Remainder of Palm Beach – Nov. 22 – Midnight</b>	<b>Nov. 9 – Midnight</b>	
<b>St. Lucie</b>	<b>Nov. 15 - Midnight</b>	<b>Oct. 31 – Midnight</b>	

Source: Florida EOC ESF-12 10/26/05 2 PM EDT

### Louisiana

- Entergy on 10/25 updated its Table showing its restoration progress by neighborhood in New Orleans. See: [http://www.energy-neworleans.com/content/corp/emergencyctr/NOLA\\_electric\\_detail\\_content.asp](http://www.energy-neworleans.com/content/corp/emergencyctr/NOLA_electric_detail_content.asp)

### OIL AND GAS INFORMATION

- According to MMS, 1,022,515 barrels of oil per day are shut-in, which equates to 68.17 percent of the normal daily oil production in the Gulf. Shut-in gas production is 5.563 billion cubic feet per day. This shut-in gas production is equivalent to 55.63 percent of the normal daily gas production in the Gulf. Evacuations are equivalent to 27.84 percent of 819 manned platforms and 12.69 percent of 134 rigs currently operating in the Gulf. For further information see MMS web site at [www.mms.gov](http://www.mms.gov). MMS reports 66 destroyed platforms and 32 damaged platforms in the Gulf of Mexico (GOM).

### **Damage to GOM Oil & Gas Infrastructure**

Ivan vs. Katrina vs. Rita

	<b>Rita</b>	<b>Katrina</b>	<b>Ivan</b>
<b>Platforms Destroyed</b>	<b>66</b>	<b>47</b>	<b>7</b>
<b>Platforms Extensive Damage</b>	<b>32</b>	<b>20</b>	<b>20</b>
<b>Rigs Adrift</b>	<b>13</b>	<b>6</b>	<b>5</b>
<b>Rigs Extensive Damage</b>	<b>10</b>	<b>9</b>	<b>4</b>
<b>Rigs Destroyed</b>	<b>4</b>	<b>4</b>	<b>1</b>
<b>Rigs Unaccounted For</b>	<b>2 (Missing / Allegedly Sunk - Added in With Destroyed)</b>	<b>0</b>	<b>0</b>
<b>Number of Pipelines</b>	<b>28</b>	<b>70</b>	<b>102</b>

<b>Damaged</b>			
<b>Shut-in Production High</b>	<b>26-Sep</b>	<b>30-Aug</b>	<b>16-Sep</b>
<b>Gas (BCF)</b>	<b>8.623</b>	<b>9.418</b>	<b>6.515</b>
<b>Oil (bbls)</b>	<b>1,564,679</b>	<b>1,557,981</b>	<b>1,410,002</b>
<b>Cumulative (To Date)</b>	<i>Combined Rita / Katrina</i> <b>8/26/05 - 10/25/05</b>		<b>9/13/04 - 02/14/05</b>
<b>Gas (BCF)</b>	<i>Combined Rita / Katrina</i> <b>348.093</b>		<b>172.259</b>
<b>Oil (bbls)</b>	<i>Combined Rita / Katrina</i> <b>68,550,886</b>		<b>43,841,245</b>
<b>Evacuation Highs</b>			
<b>Platforms</b>	<b>754</b>	<b>660</b>	<b>575</b>
<b>Rigs</b>	<b>107</b>	<b>89</b>	<b>69</b>
<b>Platforms in the Path</b>	<b>1600</b>	<b>1300</b>	<b>150</b>

Source: US MMS October 25 2005.

- According to the Louisiana Department of Natural Resources (on Oct 26), onshore crude oil production in southern Louisiana has reached 69,596 barrels per day, or 34.3 percent of the region's capacity; natural gas production of 890 million cubic feet, or 39.8 percent of daily capacity in 38 southern Louisiana parishes, has been restored. Of the 55 intrastate pipelines operating in southern Louisiana, five have reopened, 38 were shut in, 11 were partly shut in, and the status of one was unknown.
- The following tables highlight the current shut downs by major energy facilities in the path of Hurricane Rita as of 10/25:

#### REFINERY IMPACTS FROM HURRICANE RITA

Company	Location	Capacity (B/D)	Status
<b>PORT ARTHUR/ LAKE CHARLES</b>			
Citgo	Lake Charles, LA	324,300	Reduced rate
ConocoPhillips	West Lake, LA	239,400	Restarting
Calcasieu	Lake Charles, LA	30,000	Operating at full rate
ExxonMobil	Beaumont, TX	348,500	Reduced rates
Motiva	Port Arthur, TX	285,000	Restarting
Total	Port Arthur, TX	233,500	Restarting
Valero (Premcor)	Port Arthur, TX	255,000	Operating at full rate
Total		1,715,700	
<b>HOUSTON/TEXAS CITY</b>			
Shell Deer Park	Deer Park, TX	333,700	Operating at full rate
Lydonell Citgo	Houston, TX	270,200	Reduced rates - FCC remains down
Astra Oil (Crown Central)	Pasadena, TX	100,000	Operating at full rate
Valero	Houston, TX	83,000	Operating at full rate

Company	Location	Capacity (B/D)	Status
ExxonMobil	Baytown, TX	557,000	Operating at full rate
BP	Texas City, TX	437,000	Shut down – expected restart late October/early November
Valero	Texas City, TX	209,950	Operating at full rate
Marathon	Texas City, TX	72,000	Operating at full rate
ConocoPhillips	Sweeny, TX	229,000	Operating at full rate
Total		2,291,850	Shut down – 437,000
<b>TOTAL OF ALL AREAS including Corpus Christi</b>		<b>4,713,676</b>	Total Shutdown – 437,000
Chevron Pascagoula, MS – reduced runs; estimate normal production by late Oct.  Three refineries in LA from Hurricane Katrina remain shut down – 554,000 b/d Exxon Mobil Chalmette – full power ConocoPhillips Belle Chasse – full power Murphy Oil Meraux – partial power		<b>554,000</b>	Total including Katrina –991,000

Sources: Confirmed by company or on company web site. Various trade press sources.

- Shown below is a list of natural gas pipelines impacted by Hurricane Rita, as of 10/25.

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
ANR	ANR has declared a Force Majeure and continues not to accept any nominations upstream of its Lake Arthur and Grand Chenier Compressor Stations. There is extensive damage to its liquid handling facilities located at Grand Chenier. Effective Oct 26, ANR will increase its capacity through its Grand Chenier facilities to 550-MMcf/d.
Columbia Gulf Transmission	Force Majeure, effective Sept 26 for meters upstream of and including the Egan Measurement Stations. As of Oct 21, physical volumes in storage for Columbia Gas Transmission are generally on par with historical values and stand at 228.3 bcf.
Duke Energy Field Services including CIPCO, Seabreeze and Black Lake	CIPCO has minor damage and Black Lake remains shut-in due to lack of supplies.
Duke Energy Gas Transmission	As of Oct 26, five zones partially restricted or sealed to capacity on Texas Eastern.
Enbridge Inc.'s Offshore System, which includes Garden Banks, Manta Ray, Nautilus, Stingray, and MS Canyon	MS Canyon, Manta Ray, and UTOS pipelines are still out of service. MS Canyon has Nov 7 as target date to allow gas deliveries to the Sonat and Tennessee Gas Pipeline delivery points.
Enterprise Product Partners	As of Oct 6, all GOM area pipelines are normal except Phoenix, Viosca Knoll, Typhoon, and High Island. All platforms are in service except Garden Banks 72 and

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
	East Cameron 373. Six of its ten LA natural gas processing plants are operational.
Gulf South – Lake Charles	May be required to schedule only primary firm capacity and implement scheduling reductions for Oct 19.
Gulf South – High Island Offshore System	Due to the ongoing storm recovery issues on the connecting pipelines downstream of HIOS, the ANR delivery point is the only one available for HIOS shippers until further notice
Kinder Morgan	Limited transportation capacity on segments 23 and 33 and Force Majeure on Segment 26 on Natural Gas Pipeline Company of America lines on Oct 26; also some limited storage in Gulf Coast zones.
Sabine	Effective October 14, compression through Sabine's South Booster Station is now available. Force Majeure now lifted on 25 interconnects.
Southern Union's (Panhandle Energy) Trunkline and Sea Robin	As of October 26, 16 locations are cleared for nominations and flow on the Sea Robin system. Texas Gas Transmission has agreed to waive certain gas quality specifications to allow gas supplies currently shut-in to flow through Sea Robin. Florida Gas transmission is performing some unscheduled maintenance in October.
Tennessee Gas  Williams	For the October 24th Gas Day: Tennessee will accept nomination increases at all points except for meters listed on the latest operational advisory posting. Some pipeline points were restricted on Oct 23. Most Williams' facilities have returned to service. The only report of significant damage is Cameron Meadows natural gas processing plant in LA.

(Sources: Company web sites, DOT, and Trade associations)

<sup>1</sup> Situation Report series for Hurricanes Katrina, Rita, and Wilma have been combined into the Gulf Coast Hurricanes Situation Report series.