

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Gulf Coast Hurricanes Situation Report #36
November 4, 2005 (3:00 PM EST)**

HIGHLIGHTS

- There are 433,043 customers without power in Florida as of 3:00 PM EST 11/4 due to Hurricane Wilma, down from a peak of about 3.6 million customers. Currently, less than 5 percent of the customers are without power in the state.
- BP reports that 163 of its 190 retail sites in South Florida have reopened.
- MMS reports that Chevron Pipeline Company’s Empire Terminal is now operational. The terminal is receiving crude into tankage from incoming pipelines and has initiated deliveries to ExxonMobil’s Chalmette Refinery pipeline and to its St. James pipeline.
- DOE staff are no longer at the Regional Response Coordination Center (RRCC) in Atlanta, Georgia, pursuant to Hurricane Wilma. Staff are now positioned at the Joint Field Office in the Orlando, FL. DOE staff remain at the New Orleans Area Field Office and Joint Field Office in Baton Rouge.

ELECTRICITY INFORMATION

STATE REPORTS

Florida

- As of 3:00 PM EST 11/4, there are 433,043 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	Estimated Completion for Restoration
Broward	201,200	661,600	862,800	77%	Nov. 9 - 13
Martin	0	84,600	84,600	100%	Complete
Miami-Dade	162,100	794,400	956,500	83%	Nov. 8 - 11
Palm Beach	58,500	605,000	663,500	91%	Nov. 4 - 11

* Outage data are from 3:00 PM 11/4 FL EOC report. Estimated restoration dates are from 7:00 AM 11/4 FL EOC report.

Florida Utility Outage Data: Hard Hit Utilities*

County	Customers w/o Power	Total Customers	% Customers w/o Power
Florida Power & Light	421,800	4,343,095	10%
Municipals	11,200	1,268,280	1%
“Total Customers” includes	433,043	9,138,533	4.8%

companies with low number of outages not included in Table			
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* Data are from 3:00 PM 11/4 FL EOC report. Total shown for Total Customers column represents all customers in the state.

- Florida Power & Light reports that over 87% of their customers who lost power have now been restored. Work continues by nearly 19,000 workers from 33 states and Canada, which is the largest workforce ever organized in the company's history. The FPL restoration team has entered the house-by-house, line-by-line phase of restoration.

Louisiana

- Entergy reports that in the New Orleans area gas service is now available to about 46% of their total customer base and that total gas use is running approximately 47% of normal. The Entergy website (<http://www.entergy-neworleans.com/nola/storms/katrina.asp>) provides a table of restoration status by area as well as a map. The electricity situation is largely unchanged with an estimated 120,000 Entergy customers unable to receive power at this time.

OIL AND GAS INFORMATION

- According to MMS (11/03), 780,633 barrels of oil per day are shut-in, which equates to 52.04 percent of the normal daily oil production in the Gulf. Shut-in gas production is 4.569 billion cubic feet per day. This shut-in gas production is equivalent to 45.69 percent of the normal daily gas production in the Gulf. Evacuations are equivalent to 25.15 percent of 819 manned platforms and 3.73 percent of 134 rigs currently operating in the Gulf. For further information see MMS web site at www.mms.gov.

Damage to GOM Oil & Gas Infrastructure

Ivan vs. Katrina vs. Rita

	Rita	Katrina	Ivan
Platforms Destroyed	66	47	7
Platforms Extensive Damage	32	20	20
Rigs Adrift	13	6	5
Rigs Extensive Damage	10	9	4
Rigs Destroyed	4	4	1
Rigs Unaccounted For	2 (Missing / Allegedly Sunk - Added in With Destroyed)		0
Number of Pipelines Damaged	28	70	102
Shut-in Production High	26-Sep	30-Aug	16-Sep 2004
Gas (BCF)	8.623	9.418	6.515
Oil (bbls)	1,564,679	1,557,981	1,410,002

Cumulative (To Date)	<i>Combined Rita / Katrina</i> 8/26/05 - 11/4/05		9/13/04 - 02/14/05
Gas (BCF)	<i>Combined Rita / Katrina</i> 400.736		172.259
Oil (bbls)	<i>Combined Rita / Katrina</i> 78,193,735		43,841,245
Evacuation Highs			
Platforms	754	660	575
Rigs	107	89	69
Platforms in the Path	1600	1300	150

Source: U.S. MMS, November 4, 2005.

- According to the Louisiana Department of Natural Resources on 11/04, onshore crude oil production in southern Louisiana has reached 100,843 barrels per day, or 49.6 percent of the region's capacity; natural gas production of 1,126.6 million cubic feet per day, or 50 percent of daily capacity in 38 southern Louisiana parishes, has been restored. There are 55 on-shore pipeline operators in the hurricane affected parishes. As of today, 7 operator's facilities were reopened, 32 of the operator's facilities are shut-in, and 16 of the operators experience partial system shut-ins or flow.
- According to MMS reporting on 11/3, BP has brought back all deepwater production except for its Pompano Fixed Leg Platform.
- Shown below is a list of refineries impacted by Hurricane Rita as of October 31. The table highlights only those refineries that are at reduced rates or shut down.

REFINERY IMPACTS FROM HURRICANE RITA

Company	Location	Capacity (B/D)	Status
PORT ARTHUR/ LAKE CHARLES			
Citgo	Lake Charles, LA	324,300	Near full rate
ConocoPhillips	West Lake, LA	239,400	Reduced rate
ExxonMobil	Beaumont, TX	348,500	Reduced rate – expect full production by next week
Motiva	Port Arthur, TX	285,000	Near full rate
Total	Port Arthur, TX	233,500	Near full rate
Total		1,430,700	
HOUSTON/TEXAS CITY			
Lyondell Citgo	Houston, TX	270,200	Reduced rates - FCC remains down
BP	Texas City, TX	437,000	Shut down – gasoline production slated for mid-December; full production by year end/early 2006
Total		707,200	Shut down – 437,000
TOTAL from above		2,137,900	

Company	Location	Capacity (B/D)	Status
Exxon Mobil Chalmette – Restarting, expect full production by mid-November			
Two refineries in LA from Hurricane Katrina remain shut down – 367,000 b/d <ul style="list-style-type: none"> • ConocoPhillips Belle Chasse – shut down, full power • Murphy Oil Meraux – Estimate 1st quarter 2006 start up 	367,000	Shut down Total (Katrina + Rita)= 804,000	

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

- Shown below is a list natural gas pipelines impacted by the Gulf Coast Hurricanes as of November 4.

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
ANR	As of Oct. 28, ANR began accepting production from natural gas liquids injectors along the coast southeast from Sabine River (Grand Chenier compressor station). ANR's capacity through Grand Chenier remains 825-MMcf/d.
Columbia Gulf Transmission	Effective Nov. 1, CGT partially rescinded the Force Majeure in effect since Sept. 26 for the Egan Measurement Stations in Acadia Parish (southern Louisiana). Four stations remain unavailable.
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	Texas Eastern pipeline remains at capacity as of Nov 4.
Enbridge Inc.'s Offshore System, which includes Garden Banks, Manta Ray, Nautilus, Stingray, and MS Canyon	Mississippi Canyon and Manta Ray pipelines are still out of service. Stingray is open but is still not able to accept gas or liquids across the onshore separation and gas handling facilities at Johnson Bayou. Mississippi Canyon has a Nov. 7 target date for reopening.
Enterprise Product Partners	No news since Oct. 6: four GOM area pipelines and four LA natural gas processing plants are not fully operational.
Gulf South – Lake Charles	No critical notices, only reports of scheduled maintenance.
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	Natural Gas Pipeline operating at capacity with a few pipeline segments at limited capacity. There is also limited available storage in Gulf coast and Amarillo areas.
Sabine	Sabine lifted Force Majeure on interconnects with Sea Robin, Sonat, and Texas Gas.
Southern Union's (Panhandle Energy) Trunkline and Sea Robin	As of Nov 2, most of Trunkline gas' Terrebonne system is available for flow; 13 receipts points are unavailable. As of

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
	Nov 1, an OFO has been issued for all Sea Robin Offshore Receipt Points. As of Nov 1, Texas Gas Transmission has agreed to waive certain gas quality specifications to allow gas supplies currently shut-in to flow through Sea Robin.
Tennessee Gas	Effective Nov. 1, no restrictions on any points or services.
Williams	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 and Trade associations)