

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Gulf Coast Hurricanes Situation Report #26
October 27, 2005 (5:00 PM EDT)**

HIGHLIGHTS

- There are 2,100,392 customers without power in Florida as of 4:00 PM EDT 10/27 due to Hurricane Wilma. This represents about 23 percent of customers in the state.
- As of 4:00 PM EDT 10/27 Florida Power and Light (FPL) reported that it had restored power to more than 37% of its customers. Broward, Collier, Indian River, Lee, Martin, Miami-Dade, Palm Beach, Okeechobee, and St. Lucie counties remain the most impacted (see table).
- FPL reported that nearly 30 percent of the critical infrastructure has been restored, including all major airports and Port Everglades. The majority of the hospitals in the 22,000 square-mile area affected by the storm have been restored.
- The number of substations without service has been reduced from 241 to 85, and FPL expects to have most -- if not all -- substations back in service within the next two days.
- FPL reports that its restoration workforce is growing as more crews from out of state become available to help. Company staging sites have been established to help get materials, equipment and thousands of people to work to help shorten the restoration time. Over 8,200 workers are now involved in restoration efforts and 2,600 more have been committed.
- Port Everglades is open to all vessel traffic as of 8:30 EDT 10/27.
- DOE staff are stationed at the Regional Response Coordination Center (RRCC) in Atlanta, Georgia, pursuant to Hurricane Wilma. **DOE will begin staffing the Orlando Long Term Recovery Office as of 0700 on Saturday 10/29.** 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 10/27, there are 2,100,392 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
Broward	693,400	169,400	862,800	20%
Collier	53,800	115,800	169,600	68%
Dade	598,700	357,800	956,500	37%
Glades	1,400	2,000	3,400	59%
Hendry	3,000	5,500	8,500	65%
Indian River	15,100	26,500	41,600	64%
Lee	66,600	128,300	194,900	66%
Martin	38,700	45,900	84,600	54%
Okeechobee	8,900	7,000	15,900	44%
Palm Beach	522,100	141,400	663,500	21%
St. Lucie	32,800	70,100	102,900	68%

*Data is from 4:00 PM 10/27 FL EOC report.

Florida Utility Outage Data: Hard Hit Utilities*

County	Customers w/o Power	Total Customers	% Customers w/o Power
Florida Power & Light	2,034,600	4,343,095	47%
Municipals	46,201	1,268,280	4%
Cooperatives	19,591	949,925	2%
“TotalCustomers” includes companies with low number of outages not included in Table	2,100,392	9,138,533	23%

*Data is from 4:00 PM 10/27 FL EOC report. Total shown for Total Customers column represents all customers in the state.

ESTIMATED RESTORATION DATES – HURRICANE WILMA

County	Florida Power & Light	Municipal Utilities	Cooperative Utilities
Broward	Nov. 22 – Midnight		Nov. 13 – Midnight
Charlotte			Oct. 30 – Midnight
Collier	Nov. 15 – Midnight		Nov. 15 – Midnight
Dade	N. of Kendall Dr. – Nov. 22 – Midnight S. of Kendall Dr.- Nov. 8 – Midnight	Oct. 31 - Midnight	
Glades	Nov. 8 – Midnight	Oct. 31 – Midnight	Nov. 20 – Midnight
Hendry	Nov. 15 – Midnight	Oct. 31 – Midnight	Nov. 20 – Midnight
Highlands	Nov. 8 – Midnight		Oct. 30 – Midnight
Indian River	Nov. 8 – Midnight	Oct. 29 - Midnight	
Lee	Nov. 15 – Midnight		Nov. 15 – Midnight
Martin	Nov. 15 – Midnight		
Monroe		Oct. 31 – Midnight	Oct. 29 – Midnight
Okeechobee	Nov. 8 – Midnight		Nov. 8 – Midnight
Palm Beach	E. of turnpike & N. of PGA – Nov. 15 – Midnight Remainder of Palm	Nov. 9 – Midnight	

	Beach – Nov. 22 – Midnight		
St. Lucie	Nov. 15 – Midnight	Oct. 31 – Midnight	

Source: Florida EOC ESF-12 10/26 2:00 PM EDT report and FPL website.

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

OIL AND GAS INFORMATION

- According to MMS, 1,022,313 barrels of oil per day are shut-in, which equates to 68.15 percent of the normal daily oil production in the Gulf. Shut-in gas production is 5.559 billion cubic feet per day. This shut-in gas production is equivalent to 55.59 percent of the normal daily gas production in the Gulf. Evacuations are equivalent to 27.84 percent of 819 manned platforms and 5.22 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
Gas (BCF)	8.623	9.418	6.515
Oil (bbls)	1,564,679	1,557,981	1,410,002
Cumulative (To Date)	Combined Rita / Katrina 8/26/05 - 10/27/05		9/13/04 - 02/14/05
Gas (BCF)	Combined Rita / Katrina 359.216		172.259
Oil (bbls)	Combined Rita / Katrina 70,595,715		43,841,245
Evacuation Highs			
Platforms	754	660	575

Rigs	107	89	69
Platforms in the Path	1600	1300	150

Source: US MMS October 25 2005.

- According to the Louisiana Department of Natural Resources on Oct. 27, onshore crude oil production in southern Louisiana has reached 71,154 barrels per day, or 35 percent of the region's capacity; natural gas production of 904.2 million cubic feet, or 40.5 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.
- Shell Oil reports that its share of Gulf of Mexico production is restored to more than 0.2 million barrels per day of its pre-Katrina share of approximately 0.45 million barrels per day. Good progress continues to be made on key assets including Ursa, Mensa, and the Auger pipeline. Production from the Mars platform is expected to resume in the second half of 2006. Lost production from Shell was 15 million barrels in the third quarter 2005 and is expected to be 18 MMB in the fourth quarter 2005.
- Shell also reports that its share of lost refinery intake was 4.9 million barrels in the third quarter 2005 and is expected to be 4.5 million barrels in the fourth quarter 2005.
- 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
PORT ARTHUR/ LAKE CHARLES			
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	
HOUSTON/TEXAS CITY			
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
ExxonMobil	Baytown, TX	557,000	Operating at full rate
BP	Texas City, TX	437,000	Shut down – expected restart late October/early November

Company	Location	Capacity (B/D)	Status
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
TOTAL OF ALL AREAS including Corpus Christi		4,713,676	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		554,000	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. Planned maintenance on New Windsor CS has been postponed.
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	On Texas Eastern as of Oct 27, the following zones have been restricted to capacity: STX, ETX , and M1-24” and M2-24” through the Batesville CS.
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 East Cameron 373. Six of its ten LA natural gas

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
	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 17 and 33 and Force Majeure on Segment 26 on Natural Gas Pipeline Company of America lines on Oct 27; 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)