

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Gulf Coast Hurricanes Situation Report #27
October 28, 2005 (10:00 AM EDT)**

HIGHLIGHTS

- There are 1,850,262 customers without power in Florida as of 7:00 AM EDT 10/28 due to Hurricane Wilma. This represents about 20 percent of customers in the state.
- Florida Power and Light (FPL) reports that it has restored electricity to more than 1.4 million customers, or nearly 45 percent, of the approximately 3.2 million customers originally left without power in the wake of Hurricane Wilma.
- FPL reports that it expects to have restored service to a majority of their customers by 11/8 and to 95% of customers by 11/15 (see restoration table).
- A workforce of some 9,400 from FPL and from electricity companies and contractors from 33 states and Canada are working 24 hours a day on the restoration effort with an additional 2,200 workers to arrive throughout the weekend.
- Only eight of the 241 FPL substations that sustained damaged from Hurricane Wilma remain out and almost all critical facilities have been re-energized as of 6 AM 10/28. Efforts are being made to restore electricity to critical infrastructure such as gas stations and grocery stores.
- Of the hospitals serviced by FPL, 74% in Palm Beach county and 65% in Broward county remain without power as of 10:00 AM 10/27.
- ExxonMobil reports that it has 112 branded gasoline stations open and with fuel in the Tampa and South Florida areas. Due to high demand in these areas, some stores may be out of fuel for short periods.
- Shell reports that many of its South Florida stations remain closed due to power outages. Stations will be reopened as soon as power is restored. In Fort Lauderdale, Shell's Port Everglades Terminal is now utilizing a backup generator to load fuel onto delivery trucks. Additional tanker trucks and drivers have been brought in to ensure area motorists have a reliable supply of fuel.
- 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 7:00 AM EDT 10/28, there are 1,850,262 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	642,600	220,200	862,800	26%
Collier	42,100	127,500	169,600	75%
Dade	497,000	459,500	956,500	48%
Glades	500	2,900	3,400	85%
Hendry	2,800	5,700	8,500	67%
Indian River	11,700	29,900	41,600	72%
Lee	45,300	149,600	194,900	77%
Martin	28,200	56,400	84,600	67%
Okeechobee	6,900	9,000	15,900	57%
Palm Beach	487,800	175,700	663,500	26%
St. Lucie	27,300	75,600	102,900	73%

* Data is from 7:00 AM 10/28 FL EOC report.

Florida Utility Outage Data: Hard Hit Utilities*

County	Customers w/o Power	Total Customers	% Customers w/o Power
Florida Power & Light	1,792,300	4,343,095	41%
Municipals	41,321	1,268,280	3%
Cooperatives	16,641	949,925	2%
“Total Customers” includes companies with low number of outages not included in Table	1,850,262	9,138,533	20%

*Data is from 7:00 AM 10/28 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 Beach – Nov. 22 – Midnight	Nov. 9 – 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

- See Entergy's web site for restoration progress by neighborhood in New Orleans: http://www.entergy-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	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)	<i>Combined Rita / Katrina</i> 8/26/05 - 10/27/05		9/13/04 - 02/14/05
Gas (BCF)	<i>Combined Rita / Katrina</i> 359,216		172,259
Oil (bbls)	<i>Combined Rita / Katrina</i> 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.
- 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	Pasadena, TX	100,000	Operating at full rate

Company	Location	Capacity (B/D)	Status
Central)			
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
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 10/28.

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 Compressor Station (CS). As of Oct 28, ANR will begin accepting gas associated with liquid re-injectors at locations upstream of the Grand Chenier CS. ANR's capacity through its Grand Chenier facilities is now 650-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	On Texas Eastern as of Oct 28, zones STX and ETX are restricted to capacity and zones M1-24" and M2-24" through the Batesville CS and receipts sources at Monroe station are also restricted to capacity. To address natural gas supply constraints caused by the Venice Gas Processing Plant outage, Texas Eastern plans to construct an interconnection with facilities

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
	owned by Discovery Gas Transmission. Some gas quality standards will be waived. Texas Eastern has restored all 10 storm affected compressor stations to full operational capability. As of October 27, 2005 Texas Eastern has approximately 17 meters not available for flow on its Cameron system Texas Eastern has 9 meters not available for flow on its South Pass system.
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 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, 18 and 33 and Force Majeure on Segment 26 on Natural Gas Pipeline Company of America lines on Oct 28; 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 28, 17 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.
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. 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)