

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Gulf Coast Hurricanes Situation Report #31
October 31, 2005 (10:00 AM EST)**

HIGHLIGHTS

- There are 860,188 customers without power in Florida as of 7:00 AM EST 10/31 due to Hurricane Wilma, down from a peak of about 3.6 million customers. Currently, about 9 percent of the customers are without power in the state.
- Florida Power & Light (FPL) has restored service to almost 75% of customers who lost power. As of 7:00 AM 10/31 about 834,000 customers principally in hard-hit Broward, Palm Beach, and Miami Dade counties remain without electricity.
- Shell and Motiva report that approximately 130 Shell-branded gasoline stations in South Florida are open for business. Nearly 225 gasoline deliveries were made to open stations on Thursday and Friday.
- 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 7:00 AM EST 10/31, there are 860,188 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	334,500	528,300	862,800	61%
Collier	10,400	159,200	169,600	94%
Hendry	800	7,700	8,500	91%
Lee	10,300	184,600	194,900	95%
Martin	9,600	75,000	84,600	89%
Miami-Dade	231,500	725,000	956,500	76%
Palm Beach	228,400	435,100	663,500	66%
St. Lucie	8,500	94,400	102,900	92%

* Data is from 7:00 AM 10/31 FL EOC report.

Florida Utility Outage Data: Hard Hit Utilities*

County	Customers w/o Power	Total Customers	% Customers w/o Power
Florida Power & Light	834,000	4,343,095	19%
Municipals	25,900	1,268,280	2%
Cooperatives	288	949,925	<1%
“Total Customers” includes companies with low number of outages not included in Table	860,188	9,138,533	9%

*Data is from 7:00 AM 10/31 FL EOC report. Total shown for Total Customers column represents all customers in the state.

- Florida Power & Light reports that nearly 75% of their customers who lost power have now been restored. Work continues by some 17,500 workers from 33 states and Canada, which is the largest workforce ever organized in the company’s history. As of 7:00 AM 10/31 the company reported 834,000 customers remain without power.
- FPL reported that electric service has been restored to 90 percent of the community-designated critical infrastructure such as hospitals, police, fire and other services that are deemed critical to public safety and well being.
- Over the next 24 hours, FPL expects progress to continue at a good pace, then slow as line-by-line damage is restored in those communities hardest hit.
- FPL expects to have 95 percent of all customers impacted by Hurricane Wilma back in service by the end of the day on 11/8, one week earlier than originally projected. Work is continuing in the three hardest-hit counties -- Miami-Dade, Broward and Palm Beach counties -- where completion targets remain unchanged.

ESTIMATED RESTORATION DATES – HURRICANE WILMA

County	Florida Power & Light	Municipal Utilities	Cooperative Utilities
Broward	<i>W. & S. of I-75 – Nov. 15. N. of I-595 & W. of University Dr. – Nov. 15. All others areas – Nov. 22.</i>		Complete
Charlotte			Complete
Collier	Nov. 3		Complete
Dade – North of Kendall Drive	<i>N. of SW 8th St or Tamiami Tr. – Nov. 22 – Between SW 8th. & SW 88th. – Nov. 15.</i>	Oct. 31 – Midnight	
Dade – South of Kendall Drive	<i>Miami Beach, South of 79th St. – Nov. 15. All areas S. of SW 88th St. – Nov. 8</i>	Oct. 31- Midnight	
Glades	Complete	Complete	Nov. 1 – Midnight
Hendry	Nov. 3	Oct. 31 – Midnight	Nov. 15 – Midnight
Highlands	Complete		Complete

County	Florida Power & Light	Municipal Utilities	Cooperative Utilities
Indian River	Complete	Complete	
Lee	All other areas – Nov. 8 E. of I-75 – Nov. 15		Complete
Martin	Nov. 6		
Monroe		Complete	Complete
Okeechobee	Complete		Complete
Palm Beach	Areas north of PGA Blvd. – Nov. 12 Area east of I-95 between PGA Blvd and Lake Worth Road – Nov. 15 All remaining areas of Palm Beach County – Nov. 22	Nov. 20 – Midnight	
St. Lucie	Nov. 6	Complete	

Source: Florida EOC ESF-12 10/28 5:00 PM EDT and 10/30 FPL website update.

Louisiana

- See Entergy's web site for restoration progress by neighborhood in New Orleans: http://www.entropy-neworleans.com/content/corp/emergencyctr/NOLA_electric_detail_content.asp

OIL AND GAS INFORMATION

- According to MMS (10/28), 1,017,551 barrels of oil per day are shut-in, which equates to 67.84 percent of the normal daily oil production in the Gulf. Shut-in gas production is 5.504 billion cubic feet per day. This shut-in gas production is equivalent to 55.04 percent of the normal daily gas production in the Gulf. Evacuations are equivalent to 27.35 percent of 819 manned platforms and 4.48 percent of 134 rigs currently operating in the Gulf. For further information see MMS web site at www.mms.gov. **MMS will issue its next report at 2PM (EST) on October 31.**

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 - 10/28/05		9/13/04 - 02/14/05
Gas (BCF)	<i>Combined Rita / Katrina</i> 364.720		172.259
Oil (bbls)	<i>Combined Rita / Katrina</i> 71,613,334		43,841,245
Evacuation Highs			
Platforms	754	660	575
Rigs	107	89	69
Platforms in the Path	1600	1300	150

Source: US MMS October 28 2005.

- According to the Louisiana Department of Natural Resources on Oct. 28, onshore crude oil production in southern Louisiana has reached 73,084 barrels per day, or 36 percent of the region's capacity; natural gas production of 912 million cubic feet, or 40.8 percent of daily capacity in 38 southern Louisiana parishes, has been restored. Of the 55 intrastate pipelines operating in southern Louisiana, seven have reopened, 32 are shut in, 16 are partly shut in.
- The U.S. Coast Guard reported that cleanup efforts continue at the following facilities: Chevron Empire Terminal in Buras, La.; Sundown East and Sundown West, both in Potash, La.; Bass Enterprises Production Company Cox Bay facility at mile marker 35 on the Mississippi River; Bass Enterprises Production Company in Pointe a la Hache, La.; Dynegy Venice in Venice, La.; Murphy Oil in Meraux, La.; Shell Pilot Town in Pilottown, La.; and Shell Nairn in Port Sulphur, La. The table below summarizes Louisiana's post-hurricane pollution recovery response:

Major spills (classified as 100,000 gallons or more)	6
Medium spills (classified as 10,000 gallons or more)	3
Minor spills	133
Volume spilled	8 million gallons
Volume recovered	3.5 million gallons
Volume evaporated	2 million gallons
Volume naturally dispersed:	2 million gallons
Volume remaining to be recovered:	0.5 million gallons

- Shown below is a list of refineries impacted by Hurricane Rita as of October 31.

REFINERY IMPACTS FROM HURRICANE RITA

Company	Location	Capacity (B/D)	Status
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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 – gasoline production slated for mid-December; full production by end of year/early 2006
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 10/31

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 650-MMcf/d.
Columbia Gulf Transmission	Force Majeure is still in effect (since Sept 26) for the Egan Measurement Stations in Acadia Parish (southern Louisiana). 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	Texas Eastern pipeline has been at capacity. Texas Eastern has restored all 10 storm affected compressor stations to full operational capability.
Enbridge Inc.'s Offshore System, which includes Garden Banks, Manta Ray, Nautilus, Stingray, and MS Canyon	Mississippi Canyon, Manta Ray, and UTOS pipelines are still out of service. UTOS expects to be ready to accept gas & liquid receipts on Nov. 1; Miss Canyon has a Nov. 7 target date.
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.
Sabine	No news: normal operations.
Southern Union's (Panhandle Energy) Trunkline and Sea Robin	As of Oct. 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	As of Oct. 28, Tennessee is at capacity and has estimated completion dates for damage assessments and repairs.
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)