

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)  
U.S. DEPARTMENT OF ENERGY  
Gulf Coast Hurricanes<sup>1</sup> Situation Report #22  
October 25, 2005 (5:00 PM EDT)**

**HIGHLIGHTS**

- There are 3,142,430 customers without power in Florida as of 4:00 PM 10/25 due to Hurricane Wilma.
- As of 5:00 PM EST, Hurricane Wilma has maximum sustained winds near 85 mph. Wilma is located about 205 miles south-southeast of Halifax, Nova Scotia and is moving toward the northeast near 53 mph. This motion is expected to continue for the next 24 hours keeping the storm well offshore of the Northeastern U.S. <http://www.nhc.noaa.gov/>
- On 10/24, EPA granted the State of Florida a waiver to use highway diesel sulfur and dye requirements through November 10. The waiver was due to expire today.
- DOE staff are now stationed at the Regional Response Coordination Center (RRCC) in Atlanta, Georgia pursuant to Hurricane Wilma (FEMA did not request DOE staff to deploy to Florida). DOE staff are also at the New Orleans Area Field Office and State EOC in Baton Rouge.

**OIL AND GAS INFORMATION**

- According to MMS, 1,033,621 barrels of oil per day are shut-in, which equates to 68.91 percent of the normal daily oil production in the Gulf. Shut-in gas production is 5.582 billion cubic feet per day. This shut-in gas production is equivalent to 55.82 percent of the normal daily gas production in the Gulf. Evacuations are equivalent to 29.06 percent of 819 manned platforms and 17.91 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

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

<b>Number of Pipelines Damaged</b>	28	70	102
<b>Shut-in Production High</b>	26-Sep	30-Aug	16-Sep
<b>Gas (BCF)</b>	8.623	9.418	6.515
<b>Oil (bbls)</b>	1,564,679	1,557,981	1,410,002
<b>Cumulative (To Date)</b>	<i>Combined Rita / Katrina 8/26/05 - 10/25/05</i>		9/13/04 - 02/14/05
<b>Gas (BCF)</b>	<i>Combined Rita / Katrina 348,093</i>		172.259
<b>Oil (bbls)</b>	<i>Combined Rita / Katrina 68,550,886</i>		43,841,245
<b>Evacuation Highs</b>			
<b>Platforms</b>	754	660	575
<b>Rigs</b>	107	89	69
<b>Platforms in the Path</b>	1600	1300	150

Source: US MMS October 25 2005.

- According to the Louisiana Department of Natural Resources (on Oct 24), onshore crude oil production in southern Louisiana has reached 65,782 barrels per day, or 32.4 percent of the region's capacity; natural gas production of 885 million cubic feet, or 39.6 percent of daily capacity in 38 southern Louisiana parishes, has been restored. Of the 55 intrastate pipelines operating in southern Louisiana, two have reopened, 39 were shut in, 12 were partly shut in, and the status of two 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 10/24.

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. Alternative arrangements have been worked out to get around this bottleneck. Effective Oct 20, ANR will increase its capacity through its Grand Chenier facilities to 450-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	Four 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

<b>On-Shore and Off-Shore Pipelines with Reported Supply Issues</b>	<b>Status</b>
	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	The Force Majeure event related to Hurricane Rita that was posted September 21, 2005 is now lifted. 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 16, 24 (into Florida), and 33 and Force Majeure on Segment 26 on Natural Gas Pipeline Company of America lines on Oct 22; 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	Trunkline's Terrebonne System started accepting nominations for gas on Sept 27. Fourteen receipt and delivery points are still not available. Starting Oct 15, 15 locations are cleared for nominations and flow on the Sea Robin system. 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)

## **ELECTRICITY INFORMATION**

### **STATE REPORTS**

#### **Florida**

- As of 4:00 PM, 10/25, there are 3,142,430 customers without power in Florida due to Hurricane Wilma.

#### **Florida County Outage Data: Hard Hit Counties\***

<b>County</b>	<b>Customers w/o Power</b>	<b>Total Customers</b>	<b>% Customers w/o Power</b>
Brevard	8,700	273,986	3%

Broward	857,424	880,397	97%
Charlotte	2,022	96,459	2%
Collier	144,900	206,375	70%
Dade	913,200	986,101	93%
Glades	6,583	7,504	88%
Hendry	12,372	16,620	74%
Indian River	59,400	78,447	76%
Lee	206,000	348,704	59%
Manatee	1,500	176,326	1%
Martin	82,200	85,663	96%
Monroe	42,500	58,361	73%
Okeechobee	15,828	20,476	77%
Palm Beach	670,800	705,370	95%
Sarasota	3,700	233,867	2%
St. Lucie	114,400	129,560	88%

\*Data is from 4:00 PM 10/25 FL EOC report

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

County	Customers w/o Power	Total Customers	% Customers w/o Power
Florida Power & Light	2,942,500	4,343,095	68%
Progress Energy Florida	227	1,565,726	<0.1%
Municipals	107,800	1,268,280	8%
Cooperatives	91,903	949,925	10%
<b>Total includes companies with low number of outages not included in Table</b>	<b>3,142,430</b>	<b>9,138,533</b>	<b>34%</b>

\*Data is from 4:00 PM 10/25 FL EOC report

- Florida Power & Light (FPL) reports that more of the company's 4.3 million customers have been affected by Wilma than by any other natural disaster in the company's history. In heavily populated areas such as Miami-Dade County, as many as 98 percent of its customers lost power. As of 4:00 PM on 10/25 the company has restored some 298,900 customers but warned that its transmission system and substations had received substantial damage. Today, 10/25, is the first full day for the company to work on repairs.
- FPL began assessment of damage to its electric grid yesterday, 10/24, and will continue today, but it will take days to complete the assessment effort. FPL currently has a restoration team in the field of 6,000 including approximately 2,500 out-of-state contractors and utility workers.
- Progress Energy Florida crews have restored service to the vast majority of customers who lost power as a result of Hurricane Wilma. As of 4:00 PM EDT 10/25, 227 customers were without power, down from a peak of 52,000 at 1:10 PM 10/24.
- Progress Energy Florida has begun releasing tree crews to assist Florida Power & Light in its hurricane recovery efforts. Progress Energy expects to send additional line and tree crews to its southern neighbor as Progress Energy's restoration is completed.

- The National Rural Electric Cooperative Association reports that as of 3:45 PM 10/24 only three electric cooperatives still have service outages to restore.
  - Lee County Electric Cooperative has 105,000 meters out and 200 crews working to restore service.
  - Florida Keys Electric Cooperative has eight repair crews on the way to assist in the restoration efforts. The transmission has all been restored in the Keys' service territory, with full service anticipated to be restored by next weekend.
  - Glades Electric Cooperative sources report at least two transmission poles down, as well as their own headquarters being damaged and flooded. It is anticipated that the damage to the transmission and distribution system at Glades is likely to be extensive.
- Port of Tampa reopened at 8:00 AM 10/25 with no restrictions.
- Port Canaveral opened at 8:30 AM today. Minimal damage to docks.
- Port Everglades is closed to commercial traffic. The port suffered damage and it is unknown when the port will reopen.

### **Texas**

- Jasper Newton Electric Cooperative reported 10/25 that they have restored power to about 95% of their customers. Less than 1,000 customers remain without power in Orange and Newton counties.

### **Louisiana**

- Entergy on 10/24 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)

---

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