

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)  
U.S. DEPARTMENT OF ENERGY  
Gulf Coast Hurricanes<sup>1</sup> Situation Report #20  
October 24, 2005 (3 PM EDT)**

**HIGHLIGHTS**

- There are 3,149,479 customers without power in Florida as of 12:30 PM 10/24 due to Hurricane Wilma.
- As of 1:00 PM EST, Hurricane Wilma is a Category 2 storm with maximum sustained winds near 105 mph. Wilma is located about 65 miles north-northeast of West Palm Beach, FL, and is moving toward the northeast at nearly 25 mph. Hurricane force winds extend outward up to 100 miles and tropical storm force winds extend outward up to 260 miles from the center of the storm. The center of the hurricane will emerge off the east coast of the southern Florida peninsula and move into the Atlantic Ocean later today. <http://www.nhc.noaa.gov/>
- Tropical Depression Alpha has maximum sustained winds near 35 mph and is located 340 miles north of Great Inagua Island. The depression is moving toward the north at near 23 mph and is forecasted to continue to move away from the Bahamas and should be absorbed by Hurricane Wilma on Tuesday 10/25. <http://www.nhc.noaa.gov/>
- DOE staff are now stationed at the Regional Response Coordination Center (RRCC) in Atlanta, Georgia, and the Florida State EOC in Tallahassee, Florida for Hurricane Wilma. DOE staff are also at the New Orleans Area Field Office and State EOC in Baton Rouge.

**OIL AND GAS INFORMATION**

- According to MMS, 1,018,478 barrels of oil per day are shut-in, which equates to 67.90 percent of the normal daily oil production in the Gulf. Shut-in gas production is 5.47 billion cubic feet per day. This shut-in gas production is equivalent to 54.72 percent of the normal daily gas production in the Gulf. Evacuations are equivalent to 29.67 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</i> <b>8/26/05 – 10/24/05</b>		9/13/04 - 02/14/05
<b>Gas (BCF)</b>	<i>Combined Rita / Katrina</i> <b>342.511</b>		172.259
<b>Oil (bbls)</b>	<i>Combined Rita / Katrina</i> <b>67,517,266</b>		43,841,245
<b>Evacuation Highs</b>			
<b>Platforms</b>	754	660	575
<b>Rigs</b>	107	89	
<b>Platforms in the Path</b>	1600	1300	150

Source: US MMS October 24 2005.

- The following tables highlight the current shut downs by major energy facilities in the path of Hurricane Rita as of 10/24:

### OIL OPERATIONS IN THE PATH OF HURRICANE RITA

#### Refineries

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	Restarting
Motiva	Port Arthur, TX	285,000	Shut down – initiating start-up sequence
Total	Port Arthur, TX	233,500	Restarting
Valero (Premcor)	Port Arthur, TX	255,000	Reduced rates
Total		1,715,700	Shutdown – 285,500
<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	Reduced rates
ExxonMobil	Baytown, TX	557,000	Operating at full rate

Company	Location	Capacity (B/D)	Status
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 – 722,500
Three refineries (all in LA) from Hurricane Katrina remain shut down – 554,000 barrels per day		<b>554,000</b>	Total including Katrina –1,276,500  Chevron Pascagoula, MS – restarted October 6; estimate normal production by late October. Exxon Mobil Chalmette – full power ConocoPhillips Belle Chasse – full power Murphy Oil Meraux – partial power

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 <b>Sept 26</b> for meters upstream of and including the Egan Measurement Stations. <b>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.</b>
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	<b>Four zones partially restricted or sealed to capacity on Texas Eastern.</b>
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. Discovery Gas Transmission, LLC plans to make up to 250,000 dekatherms of additional capacity available via an alternative existing interconnection to Tennessee Gas Pipeline's Line 500 in Terrebonne Parish, La.

(Sources: Company web sites, DOT, and Trade associations)

## **ELECTRICITY INFORMATION**

### **STATE REPORTS**

## **Florida**

- As of 12:30 PM, 10/24, there are 3,149,479 customers without power in Florida.

### **Florida Utility Outage Data (10/24/05 12:30 PM EDT)**

<b>Utility</b>	<b>Customers w/o Power</b>
Florida Power & Light	2,900,000
Progress Energy Florida	36,000
Tampa Electric	1,908
Municipals	62,351
Cooperatives	149,220
<b>Total</b>	<b>3,149,479</b>

- Last week Florida Power & Light assembled 1,001 out-of-state restoration lines and 610 vegetation crews that will be available to FPL crews in restoration after the storm passes. This is the largest number of external restoration crews that FPL has brought together pre-landfall of any hurricane that FPL has ever worked. In total, FPL has assembled a combined restoration work force of 5,100 external restoration workers, FPL personnel and contractors.
- Florida reports that fuel supplies are adequate in the State.
- The Ports of Tampa and Everglades are closed.

## **Texas**

- On 10/19 Jasper-Newton Electric Cooperative (JNEC) reported that just over 5,000 customers remained without electricity. Power has been restored to approximately 71% of JNEC's meters including 77% in Jasper County, 59% in Newton County, and 37% in Orange County.

## **Louisiana**

- Entergy is reporting on a weekly basis and an update is on their website at: <http://www.entergy-neworleans.com/nola/storms/katrina.asp>

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