

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Gulf Coast Hurricanes¹ Situation Report #21
October 25, 2005 (10:00 AM EDT)**

HIGHLIGHTS

- There are 3,251,227 customers without power in Florida as of 7:00 AM 10/25 due to Hurricane Wilma.
- As of 5:00 AM EST, Hurricane Wilma has maximum sustained winds near 115 mph. Wilma is located about 310 miles east of Cape Hatteras, NC 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/>
- Yesterday, 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, 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. 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
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	28	70	102

Damaged			
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 – 10/24/05		9/13/04 - 02/14/05
Gas (BCF)	<i>Combined Rita / Katrina</i> 342.511		172.259
Oil (bbls)	<i>Combined Rita / Katrina</i> 67,517,266		43,841,245
Evacuation Highs			
Platforms	754	660	575
Rigs	107	89	
Platforms in the Path	1600	1300	150

Source: US MMS October 24 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
10/25/05 – 9AM

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 10/24.

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.

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
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	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 7:00 AM, 10/25, there are 3,251,227 customers without power in Florida due to Hurricane Wilma.

**Florida County Outage Data: Hard Hit Counties
(10/25/05 7:00 AM EDT)**

County	Customers w/o Power	Total Customers	% Customers w/o Power
Brevard	10,000	273,986	4%
Broward	859,224	880,397	98%
Charlotte	2,422	96,459	3%
Collier	158,014	206,375	77%
Dade	930,600	986,101	94%
Glades	6,683	7,504	89%
Hendry	14,393	16,620	87%
Highlands	8,917	58,443	15%
Indian River	64,100	78,447	82%
Lee	240,893	348,704	69%
Manatee	4,000	176,326	2%
Martin	83,400	85,663	97%
Monroe	48,300	58,361	83%
Okeechobee	16,881	20,476	82%
Palm Beach	672,600	705,370	95%
Sarasota	4,700	233,867	2%
St. Lucie	125,000	129,560	96%

**Florida Utility Outage Data: Hard Hit Utilities
(10/25/05 7:00 AM EDT)**

County	Customers w/o Power	Total Customers	% Customers w/o Power
Florida Power & Light	2,989,600	4,343,095	69%
Progress Energy Florida	1,259	1,565,726	<0.1%
Municipals	120,100	1,268,280	9%
Cooperatives	140,268	949,925	15%
Total for state shown includes companies with low number of outages not include in Table	3,251,227	9,138,533	36%

- 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. By 8:00 PM on 10/24 the company had already restored some 116,000 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 has assembled a combined restoration work force totaling more than 6,000 and the number of restoration personnel will continue to grow as additional utility and contractor resources are made available by neighboring states. The company has already received and accepted offers of assistance by utilities from as far away as Canada.

- Progress Energy Florida crews have restored service to the vast majority of customers who lost power as a result of Hurricane Wilma. As of 7 AM EDT 10/25 1,259 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 October 25th with no restrictions.
- Port Everglades is still closed as of 6:00 PM October 24. Damage assessments and a survey of aids to navigation are ongoing.

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>

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