

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Gulf Coast Hurricanes¹ Situation Report #25
October 27, 2005 (10:00 AM EDT)**

HIGHLIGHTS

- There are 2,265,424 customers without power in Florida as of 7:00 AM EDT 10/27 due to Hurricane Wilma. This represents about 25 percent of customers in the state.
- As of 9:00 PM EDT 10/26 Florida Power and Light (FPL) reported that it had restored power to more than 25% of its customers. Broward, Collier, Indian River, Lee, Martin, Miami-Dade, Palm Beach, Okeechobee, and St. Lucie counties remain the most impacted (see table).
- FPL reported that nearly 30 percent of the critical infrastructure has been restored, including all major airports and Port Everglades. The majority of the hospitals in the 22,000 square-mile area affected by the storm have been restored.
- The number of substations without service has been reduced from 241 to 85, and FPL expects to have most -- if not all -- substations back in service within the next two days.
- FPL reports that its restoration workforce is growing as more crews from out of state become available to help. Company staging sites have been established to help get materials, equipment and thousands of people to work to help shorten the restoration time. Over 8,200 workers are now involved in restoration efforts and 2,600 more have been committed.
- Port Everglades is open to all vessel traffic as of 8:30 EDT 10/27.
- DOE staff are stationed at the Regional Response Coordination Center (RRCC) in Atlanta, Georgia, pursuant to Hurricane Wilma. 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 10/27, there are 2,265,424 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 |
|--------|---------------------|--------------------------|--------------------------|----------------------|
| | | | | |

| | | | | |
|--------------|---------|---------|---------|-----|
| Brevard | 100 | 79,400 | 79,500 | 99% |
| Broward | 709,800 | 153,000 | 862,800 | 18% |
| Collier | 62,600 | 107,000 | 169,600 | 63% |
| Glades | 1,500 | 1,900 | 3,400 | 56% |
| Hendry | 3,000 | 5,500 | 8,500 | 65% |
| Indian River | 19,700 | 21,900 | 41,600 | 53% |
| Lee | 69,100 | 125,800 | 194,900 | 65% |
| Martin | 42,200 | 42,400 | 84,600 | 50% |
| Miami-Dade | 635,300 | 321,200 | 956,500 | 34% |
| Okeechobee | 10,100 | 5,800 | 15,900 | 36% |
| Palm Beach | 578,700 | 84,800 | 663,500 | 13% |
| St. Lucie | 45,200 | 57,700 | 102,900 | 56% |

*Data is from 7:00 AM 10/27 FL EOC report.

Florida Utility Outage Data: Hard Hit Utilities*

| County | Customers w/o Power | Total Customers | % Customers w/o Power |
|---|---------------------|------------------|-----------------------|
| Florida Power & Light | 2,177,700 | 4,343,095 | 50% |
| Municipals | 52,871 | 1,268,280 | 4% |
| Cooperatives | 34,853 | 949,925 | 4% |
| “TotalCustomers” includes companies with low number of outages not included in Table | 2,265,424 | 9,138,533 | 25% |

*Data is from 7:00 AM 10/27 FL EOC report

- As of 10/25/05 the National Rural Electric Cooperative Association reported that of the three Florida electric cooperatives affected by Hurricane Wilma, Lee County Electric Cooperative and Florida Keys Electric Cooperative expect to have the majority of customers restored by the weekend. Glades Electric Cooperative has over 100 transmission poles to replace and is reporting substantial damage to the distribution system, most of which is located in very rural areas.

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 | | | Oct. 30 – Midnight |
| Indian River | Nov. 8 – Midnight | Oct. 29 - Midnight | |
| Lee | Nov. 15 – Midnight | | Nov. 15 – Midnight |
| Monroe | | Oct. 31 – Midnight | Oct. 29 – Midnight |
| Okeechobee | Nov. 8 – Midnight | | Nov. 8 – Midnight |
| Palm Beach | E. of turnpike & N. | Nov. 9 – Midnight | |

| | | | |
|-----------|--|--------------------|--|
| | of PGA – Nov. 15 – Midnight Remainder of Palm Beach – Nov. 22 – Midnight | | |
| St. Lucie | Nov. 15 – Midnight | Oct. 31 – Midnight | |

Source: Florida EOC ESF-12 10/26 2:00 PM EDT

Louisiana

- Entergy on 10/25 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

OIL AND GAS INFORMATION

- According to MMS, 1,022,515 barrels of oil per day are shut-in, which equates to 68.17 percent of the normal daily oil production in the Gulf. Shut-in gas production is 5.563 billion cubic feet per day. This shut-in gas production is equivalent to 55.63 percent of the normal daily gas production in the Gulf. Evacuations are equivalent to 27.84 percent of 819 manned platforms and 12.69 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 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) | Combined Rita / Katrina 8/26/05 - 10/26/05 | | 9/13/04 - 02/14/05 |
| Gas (BCF) | Combined Rita / Katrina 353.656 | | 172.259 |

| | | | |
|------------------------------|--------------------------------|-------------|-------------------|
| | <i>Combined Rita / Katrina</i> | | |
| Oil (bbls) | 69,573,402 | | 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 26), onshore crude oil production in southern Louisiana has reached 69,596 barrels per day, or 34.3 percent of the region's capacity; natural gas production of 890 million cubic feet, or 39.8 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.

- 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 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 – 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 |

| Company | Location | Capacity (B/D) | Status |
|---|----------|------------------|----------------------------------|
| 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 10/25.

| 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. Effective Oct 26, ANR will increase its capacity through its Grand Chenier facilities to 550-MMcf/d. Planned maintenance on New Windsor CS has been postponed. |
| 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 27, the following zones have been restricted to capacity: STX, ETX, and M1-24” and M2-24” through the Batesville CS. |
| 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 |

| On-Shore and Off-Shore Pipelines with Reported Supply Issues | Status |
|--|--|
| | delivery point is the only one available for HIOS shippers until further notice |
| Kinder Morgan | Limited transportation capacity on segments 17 and 33 and Force Majeure on Segment 26 on Natural Gas Pipeline Company of America lines on Oct 27; 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 26, 16 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. 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)

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