

OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Hurricane Katrina Situation Report #10
August 30, 2005 (10:00 AM EDT)

HIGHLIGHTS

- Some 2.7 million customers have reported outages due to Hurricane Katrina in Louisiana, Mississippi, Alabama, and Florida (see table below). Louisiana reports approximately 881,400 customers without power. Mississippi has about 855,400 customers without power and Alabama has approximately 787,800 customers without power.
- Preliminary damage estimates reported in the Wall Street Journal 8/30/05 suggested that insured losses from the storm could total anywhere from \$9 billion to \$26 billion, generally excluding damage to offshore oil production. Hurricane Andrew in 1992, the costliest storm on record, caused \$21.6 billion of insured losses in 2005 dollars; last year's Hurricane Charley ranks No. 2, at \$7.7 billion. Most insurers are not likely to release estimates of losses from the storm for several days.
- Extensive flooding is a major issue for electricity restoration. The size of the hurricane and the number of utilities impacted will handicap the speed of restoration efforts.
- The center of Katrina should move through the Tennessee Valley today. Maximum sustained winds have decreased to near 50 mph with higher gusts. Further weakening is expected during the next 24 hours, and Katrina should weaken to a depression later today. Tropical storm force winds extend outward up to 105 miles from the center. Coastal storm surge flooding along the northern and northeastern Gulf of Mexico will slowly subside today. The latest NOAA information on the storm track is available at: <http://www.nhc.noaa.gov/>. The next tropical depression in the Caribbean had degenerated but is still being monitored for possible signs of regeneration.
- ESF-12 has been activated by the Federal Emergency Management Agency to support multiple locations. OE staff are now at the National Response Coordination Center (NRCC) at FEMA HQ, FEMA Regions IV and VI, and the State Emergency Operation Centers (EOC) in Alabama and Mississippi. We are trying to get staff to Louisiana, but transportation difficulties have delayed their arrival.
- Information on oil and gas infrastructure remains unchanged from last evening's report as assessments cannot easily be undertaken locally due to flooding, downed trees, and the priority given to emergency rescue operations in some areas. Any updates we gather will be included in the afternoon situation report.

ELECTRICITY INFORMATION

STATE OUTAGE DATA (8/30/05 8:30 AM)

Utility	Customers w/o Power	Total Customers	% Customers w/o Power from Katrina
Alabama (1)	751,809	2,339,004	32%
Florida	234,316	9,075,577	3%
Louisiana (1)	881,393	2,130,925	41%
Mississippi (1)	855,410	1,420,571	36%
Total	2,722,928	14,966,077	18%

(1) Source: EIA 2003 for Total Customers column

STATE REPORTS

Alabama

- Approximately 751,800 customers (as of 8:15 AM 8/30/05) are without power in Alabama due to Katrina. Of these, 636,400 are in the Alabama Power service area. In addition, 110,909 Co-ops customers have reported outages and 45,000 Municipal customers have reported outages. Alabama Power believes its outages – which are mainly in the southern, central and western parts of the state -- are near a peak; after initial assessments are complete, restoration plans will be projected. Alabama Power has 2,500 crewmen and an additional 200 from GA Power ready to deploy. The company is working to get crews from other companies as well.

Mississippi and Louisiana

- Approximately 855,400 customers are without power in Mississippi due to Katrina. All 196,000 Mississippi Power customers are without power.
- Louisiana Public Service Commission reports approximately 881,400 customers, or 41% of customers in the state, are without power (as of 8:00 AM 8/30/05).

Louisiana Outages by Major Utility (8/30/05 8:00 AM)

Electric Utility	Customers w/o Power	Number of Consumers (1)	% customers w/o power
Entergy Louisiana Inc	409,545	653,929	63%
Entergy Gulf States Inc	100,227	342,443	30%
Cleco Power LLC	71,399	257,299	28%
Entergy New Orleans Inc	215,163	215,163	100%
Dixie Electric Membership Corp	51,125	85,307	60%
Washington-St Tammany E C, Inc	20,000	41,304	48%
South Louisiana Elec Coop Assn	13,874	19,180	72%
City of Morgan	60	6,000	<1%

- Entergy (Louisiana and Mississippi) has begun to assess the damage caused by the worst storm in the company's history. Preliminary estimates are that just assessing the extensive damage could take many days.

More than one million Entergy customers are without power in Louisiana and Mississippi. The hurricane caused extensive damage and the company, reporting on its website, expects a long and difficult restoration. This outage is nearly four times the previous company single event set only last month during Tropical Storm Cindy. Entergy reports that its transmission system has suffered major damage, with 107 transmission lines and 126 transmission substations out of service due to the storm and it will take weeks to rebuild. Flooding, blocked access or other obstacles will hamper restoration.

The company plans to concentrate on restoring service in areas where it is not inhibited by flood waters or other obstacles. The company will focus on the harder hit areas once it gains access to those areas. Entergy has 4,000 line workers committed to restoring service, well below what the company would like to have for a restoration of this type due to limited worker availability from other utilities which are also affected by Katrina. Utilities in Florida that were damaged by Hurricane Katrina's first landfall expect to complete their restoration there, and they will be able to release their workers later this week to help in other states. The company must share the additional workers with similarly affected utilities to the east, reducing the number of workers available to Entergy.

Entergy follows a restoration plan that concentrates on getting service restored to essential customers first -- hospitals, police, fire, communications, water, sanitary services and transportation providers. Entergy crews will then focus on making repairs to electrical facilities that will return service to the largest number of customers in the shortest period of time.

Florida

- Approximately 234,300 customers, 3 percent of customers in the state, remain without power in Florida due to Katrina. This includes 155,262 Florida Power & Light customers and 78,064 Gulf Power customers. FPL has restored power to 89 percent of customers in Miami-Dade and Broward counties and expects 100 percent restoration by Friday night.
- Gulf Power expects to have a thorough assessment by early today and will have a prediction of the length of restoration work at that time. Gulf Power plans to send crews to other hard-hit areas after power has been restored to all their customers.

**Florida County Outage Data:
(As of 8/30/05 7:00 AM EDT)**

County	Customers w/o Power	Total Customers	% Customers w/o Power
Broward	37,031	880,231	4%
Dade	118,231	984,905	12%
Escambia	54,831	141,988	39%
Okaloosa	8,091	95,097	9%
Santa Rosa	15,561	63,156	25%