



U.S. Department of Energy
Emergency Support Function 12

Hurricane Ike Situation Report # 3

September 15, 2008 (10:00 AM EDT)

http://www.oe.netl.doe.gov/emergency\_sit\_rpt.aspx

Summary

Table with 3 columns: Impacted State, Electric Customer Outages, % of State Out. Includes sub-tables for Electricity and Petroleum & Natural Gas.

Notes:

Total state customers are based on 2006 EIA Customer Data.

Note: due to a large number of service providers, including investor owned utilities and cooperatives, the number of customer outages reported may not be comprehensive.

Source:

Crude Oil and Natural Gas Production Data from Minerals Management Service.

Refinery Status confirmed by company or on company web site and through various trade press sources.

\* % capacity out represents percent of production capacity in the Gulf of Mexico.

Highlights:

- As of 10:00 AM EDT September 15, there are an estimated 3,865,340 customers reported without power in five States affected by Ike: Texas, Louisiana, Arkansas, Ohio and Kentucky.
The U.S. Department of Energy reported on September 14 that the Strategic Petroleum Reserve began delivery of 200,000 barrels of emergency exchange oil to ConocoPhillips' Wood River refinery...
As of 09:30 AM EDT September 15, Gulf Ports and waterways are still closed from Freeport, TX east to Lake Charles, LA.



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additional restrictions east of Lake Charles. As of September 14, draft restrictions were lifted for Corpus Christi, Texas. The Lower Mississippi River has a safety zone from mile marker 113 to 115 and is open to one way traffic in this area.

- As of 1:45 AM EDT September 15, the LOOP resumed tanker offloadings. The LOOP continues to make deliveries to customers from its Clovelly storage facility.
- As of this 7:15 AM EDT September 15, Colonial pipeline is maintaining operations at reduced flow, ready to receive supply.

## ESF 12 Actions:

- ESF-12 is working to facilitate restoration of critical assets in the affected area. ESF-12 also is working closely with those conducting assessments of physical energy infrastructure in the field which will assist in developing restoration estimates. On September 14, ESF-12 worked with DHS to facilitate air-based damage assessments of the CenterPoint and Entergy electric transmission systems. ESF-12 responders participated in the flights to assist in these assessments.
- ESF-12 is staffing the FEMA Region VI Regional Response Coordination Center (RRCC) in Denton, TX, the FEMA Region VI Joint Field Office (JFO) in Austin, TX, the FEMA Region VI (JFO) in Baton Rouge, LA, and the National Response Coordination Center (NRCC) in Washington, DC. In addition, a petroleum expert has been deployed to San Antonio, TX to serve as part of FEMA's National Incident Management Assistance Team (IMAT) and an electricity expert has been deployed to join the Region IV IMAT in Houston, TX.

## Situation Report Detail

### Petroleum & Gas Information

Oil & Gas Offshore Production Shut In Status for Affected Area			
Location	Amount Shut In	Pre-event Production	% Shut In
Crude Oil (B/D)	1,295,223	1,300,000	99.6%
Natural Gas (MMCF/D)	6,801	7,400	91.9%

Source: Minerals Management Service

- As of September 14, the Minerals Management Service (MMS) reports 6,801 million cubic feet per day (MMcf/d) of the Gulf's natural gas production remains shut-in, equivalent to 91.9 percent of the Gulf production. MMS reports 1,295,223 barrels/day of the Gulf's crude production remains shut-in, equivalent to 99.6 percent of the Gulf's crude production. A total of 591 production platforms, or 82.4 percent of the Gulf's 717 manned platforms, have been evacuated. Personnel from 92 rigs, representing 76.0 percent of those operating in the region, have been removed.

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- On September 15, the head of Louisiana's Department of Natural Resources reports that the "basic infrastructure of the state's oil and gas industry appears to have weathered the storm with almost no damage." The Department also reported that only 18,621 barrels/day or 12 percent of the normal Louisiana production has been restored. Operators in 17 parishes and in State offshore areas normally produce 155,767 barrels/day (the numbers are in addition to MMS reports of Federal offshore production). On September 15, 80,978 barrel/day or 52 percent of the normal production remains shut-in and status is unknown for 56,167 barrels/day.
- As of 9:00 AM EDT September 15, fourteen refineries in Texas and Louisiana are reported shut down due to Hurricane Ike. These refineries located in Lake Charles/Port Arthur and Houston/Texas City, and have a total operable capacity of 3.6 million b/d. (See table below.)
- Shell reports as of 7:00 PM September 14 that 30 to 40 percent of our company-branded stations in Houston and Beaumont are now open, and it is anticipated that an additional 20 stations will be open by the end of September 14. The safety review of the Beaumont Terminal was completed and operations resumed on the evening of September 14.
- Oil refineries suffered minimal damage from Hurricane Ike and are making preparations to restart operations. Valero reports no significant structural damage. The company's Houston refinery has some power, but its Texas City and Port Arthur refineries still need electricity supply restored. Shell is still assessing its Deer Park and Port Arthur refineries. Deer Park sustained some damage and as of last night, Deer Park still had no electricity service. ConocoPhillips said its Sweeny, Texas, refinery has power and the company's Lake Charles refinery is operating at reduced rates. Exxon Mobil said its Beaumont, Texas refinery is without power.
- Chevron reports that numerous retail stations in Houston and Galveston are reporting power outages. They are deploying generators to repower key stations and provide fuel to customers. Additional Chevron transport trucks are being sent into the Houston area to speed refueling at stations.



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Refineries in the Path of Gustav / Ike as of 9/15/08 9:00 AM EDT							
Refinery Impacted	Location	Storm	Capacity (B/D)				
			Operating	Shut Down	Restarting	Reduced Runs	Back to Normal
<b>Pascagoula/Mobile Region</b>							
Chevron	Pascagoula, MS	G	330,000			330,000	
Shell	Saraland, AL	-	86,000				
<b>Pascagoula/Mobile Total</b>			<b>416,000</b>	<b>0</b>	<b>0</b>	<b>330,000</b>	
<b>Lower Mississippi River Region</b>							
Alon (Formerly Valero)	Krotz Springs, LA	G	80,000			80,000	
Chalmette Refining	Chalmette, LA	G	192,760				192,760
ConocoPhillips	Belle Chasse, LA	G	247,000		247,000		
ExxonMobil	Baton Rouge, LA	G	503,000			503,000	
Marathon	Garyville, LA	G	256,000				256,000
Motiva	Norco, LA	G	236,400			236,400	
Motiva	Convent, LA	G	235,000		235,000		
Murphy Oil	Meraux, LA	G	120,000			120,000	
Placid Refining	Port Allen, LA	G	56,000				56,000
Shell	Saint Rose, LA	G	55,000			55,000	
Valero	Norco, LA	G	185,003				185,003
<b>Lower Mississippi River Total</b>			<b>2,166,163</b>	<b>0</b>	<b>482,000</b>	<b>994,400</b>	<b>689,763</b>
<b>Lake Charles Region</b>							
Calcasieu	Lake Charles, LA	G+I	78,000	78,000			
Citgo	Lake Charles, LA	G+I	429,500			429,500	
ConocoPhillips	Westlake, LA	G+I	239,400			239,400	
<b>Lake Charles Total</b>			<b>746,900</b>	<b>78,000</b>	<b>0</b>	<b>668,900</b>	<b>0</b>
<b>Port Arthur Region</b>							
ExxonMobil	Beaumont, TX	G+I	348,500	348,500			
Motiva	Port Arthur, TX	G+I	285,000	285,000			
Total Petrochemicals	Port Arthur, TX	G+I	232,000	232,000			
Valero (formerly Premcor)	Port Arthur, TX	G+I	289,000	289,000			
<b>Port Arthur Total</b>			<b>1,154,500</b>	<b>1,154,500</b>	<b>0</b>	<b>0</b>	
<b>Houston/Galveston Region</b>							
BP	Texas City, TX	I	467,720	467,720			
ConocoPhillips	Sweeny, TX	I	247,000	247,000			
Deer Park	Deer Park, TX	I	329,800	329,800			
ExxonMobil	Baytown, TX	I	567,000	567,000			
Houston Refining	Houston, TX	I	270,600	270,600			
Marathon	Texas City, TX	I	76,000	76,000			
Pasadena Refining	Pasadena, TX	G+I	100,000	100,000			
Valero	Houston, TX	I	83,000	83,000			
Valero	Texas City, TX	I	199,500	199,500			
<b>Houston/Galveston Total</b>			<b>2,340,620</b>	<b>2,340,620</b>	<b>0</b>	<b>0</b>	
<b>Corpus Christi Region</b>							
Citgo	Corpus Christi, TX	I	156,000				156,000
Flint Hills Resources	Corpus Christi, TX	I	288,126			288,126	
Valero	Corpus Christi, TX	I	142,000			142,000	
Valero	Three Rivers, TX	I	93,000			93,000	
<b>Corpus Christi Total</b>			<b>679,126</b>	<b>0</b>	<b>0</b>	<b>523,126</b>	<b>156,000</b>
<b>TOTAL</b>			<b>7,503,309</b>	<b>3,573,120</b>	<b>482,000</b>	<b>2,516,426</b>	<b>845,763</b>

**Note:** The table does not include all refineries in the PADD III, Gulf Coast Region.  
Storm column indicates hurricanes impacting refineries: G = Gustav; I = Ike, G+I = Both storms, and - = no impact.  
**Sources:** Confirmed by company or on company web site. Various trade press sources.

- ConocoPhillips reports that outlets along evacuation routes in the south Texas area are a priority for fuel supply. The company reports that additional fuel supplies have been made available for



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outlets in those areas. While they report a few spot retail store outages in the area, most outages have been reported in Louisiana which were due to Hurricane Gustav.

- **As of 10:00 AM EDT September 14**, the Strategic Petroleum Reserve (SPR) sites at Bryan Mound, TX, Big Hill, TX, and West Hackberry, LA remain shut down. The Bayou Choctaw SPR site is operational.
- Major crude pipelines originating in Texas and Louisiana shut down operations in advance of Hurricane Ike, and many remain shut. **Colonial pipeline reported at 7:15 AM EDT September 15**, that the pipeline is ready to receive injects from storage facilities and refineries. **Portable generators have been delivered to Beaumont where, after hookup today, they will be used to draw barrels from refineries in Port Arthur and Hebert on September 16.** Explorer announced that it has conducted an initial assessment of its Gulf Coast facilities, which appear to have no damage. (See table below.)

Pipelines in the Path of Gustav / Ike as of 9/15/08 9:00 AM EDT								
Type	Name	Start	Terminus	Capacity (barrels/day)	Shut Down	Partial Shut Down	Reduced Rates	Operating
Crude	Capline	LA	IL	1,200,000			1,200,000	
Crude	LOOP/Locap	LA	LA	1,200,000			1,200,000	
Crude	Genesis gathering/refinery	TX, MS, AL	TX, MS, AL	NA	NA			
Crude	Marathon gathering	GOM	LA/TX	NA	NA			
Crude	Sunoco Logistics/Western	TX	TX	NA	NA			
Product	Centennial	TX	IL	210,000	210,000			
Product	Central Florida	FL	FL	115,000				115,000
Product	Colonial	TX	NJ	2,400,000			2,400,000	
Product	CP Seaway Products	TX	OK	85,000	85,000			
Product	CP Sweeny to Pasadena	TX	TX	115,000	115,000			
Product	Explorer	LA/TX	IN	700,000	700,000			
Product	Longhorn	TX	TX	72,000	72,000			
Product	Magellan	TX	CO, MN, WI, IL	120,000		120,000		
Product	NuStar/Texas Gulf Coast	TX	TX	100,000			100,000	
Product	Plantation	LA	VA	600,000			600,000	
Product	TEPPCO	TX	PA, NY	330,000		330,000		
NGL	Dixie	TX	NC	100,000		100,000		
NGL	Enterprise	TX	IL, MN	641,000		641,000		

Source: Status of pipelines from Association of Oil Pipe Lines; Capacity data from company web sites.

- **The Independence Hub platform, located about 150 miles offshore LA in Mississippi Canyon reported gas flow of over 600 million cubic feet on September 14, 2008. This platform is the largest producing platform representing approximately 12% of the offshore Gulf of Mexico natural gas production and in July 2008, production from the Hub averaged over 800 MMcf/d.**
- **As of 8:00 AM EDT September 15**, there have been no reports of any significant damage to natural gas pipelines or production infrastructure. Pipeline personnel are beginning to return to facilities and have started damage assessments.
- **Texas Eastern Transmission reports the mainline capacity in south TX has been restored to pre-Hurricane Ike levels, but has notified customers that several Gulf Coast area compression**

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facilities are operating on emergency backup generators as commercial power is unavailable. Texas Eastern also reports there is no significant damage to the pipeline's facilities due to Ike, but those offshore points from Gustav remain shut-in pending additional damage assessments.

- As of 7:55 PM EDT September 14, Destin Pipeline Company notified its customers that the Force Majeure event in affect since Gustav (August 30) is now terminated and all receipt points along the system will accept gas flow starting September 15. Destin extends 195-miles of 36-inch diameter pipeline from deepwater offshore to the Pascagoula processing plant in MS.
- There are 39 major natural gas processing plants in the path of Hurricane Ike with a total operating capacity of 17.6 billion cubic feet per day (Bcf/d). As of 10:00 AM EDT, September 15, twenty-seven of these plants have been confirmed as shut down which includes those plants still impacted from Gustav. This is a decrease of 3 plants that were reported as shut down in Situation Repot #2 where all three plants are now capable to restart once power is restored and/or upstream gas flow is available. The total shut down operating capacity is 13.85 Bcf/d. In addition, 8 plants with total capacity of 2.9 Bcf/d, have been confirmed as operating at reduced or normal levels and currently there is no information on the status on 1 plant with capacity of less then 0.2 Bcf/d. See table below.
- As of 10 AM EDT, September 14, many gas processing plants have reported that detailed damage assessments will take place over the next few days. Recovery rates will likely vary from facility to facility and are also dependant on recovery of upstream and downstream flows.
- DCP Midstream report that some of the company's facilities have sustained minor building damage. In addition, as electrical power and natural gas liquids takeaway service providers are restored, the company's facilities will be brought back online slowly.
- Enterprise Products Partners announced that initial inspections of their facilities indicate minimal to no visible damage to its onshore assets on the TX and LA Gulf Coast. Enterprise expects that most of its facilities will quickly resume normal operations. The loss of commercial power at the company's facilities in TX represents the most significant challenge facing Enterprise Products Partners in the recover from Hurricane Ike.



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**Force Majeure / Critical Notice Posting by Natural Gas Pipelines as of 9/15/08 8:00 AM EDT**

Pipeline Name	Time Stamp	Notice (Status)
ANR Pipeline Co.	9/10/08	Patterson Compressor station has shut down effectively eliminating all upstream points until further
Chandeleur Pipeline Co.	9/12/08	Notified customers of loss of all offshore production.
Columbia Gulf Transmission Co.	9/14/08	Flow from off-shore points has been reduced to 21% of normal operating capacity.
Destin Pipeline Co.	9/14/08	Force Majeure has terminated - gas flow accepted for all receipt points starting Monday, Sept. 15.
Discovery Gas Transmission	9/12/08	Force Majeure declared Friday, Sept 12.
Enbridge (UTOS)	9/14/08	Force Majeure declared Thursday, Sept 11. Houston offices closed until 9/15/2008.
Garden Banks Gas Pipeline	9/10/08	Force Majeure declared Tuesday, Sept 9.
High Island Offshore System	9/10/08	Forced Majeure declared Wednesday, Sept 10.
KinderMorgan (Texas & Tejas)	9/13/08	Force Majeures declared Friday, Sept 12. No storage capability.
Manta Ray Offshore Gathering	9/9/08	Force Majeure declared Tuesday, Sept 9.
Mississippi Canyon Pipeline	9/10/08	Force Majeure carried over from Gustav - unknown at time to return to service.
Natural Gas Pipeline Co of Am.	9/13/08	Force Majeure declared Thursday, Sept 11. Compressor Stations down in Texas and Louisiana.
Nautilus Pipeline Co.	9/10/08	Force Majeure declared Tuesday, Sept 9.
Sabine Pipe Line	9/12/08	Force Majeure declared late Friday, Sept 12 - entire system shut in including Henry Hub.
Sea Robin Pipeline Co.	9/11/08	Sea Robin processing plant shut down, mandatory evacuation.
Southern Natural Gas Co.	9/15/08	Offshore facility inspection is underway - Sonat has an estimated loss in supply of 500,000 Mcf/d as a result of the hurricanes.
Stingray Pipeline Co.	9/10/08	Forced Majeure declared Wednesday, Sept 10.
Tennessee Gas Pipeline	9/14/08	Force Majeure has been lifted and gas flow can resume on Monday, Sept. 15 at station points in TX & LA onshore at Stations 1 (Agua Dulce), 9 (Victoria), 17 (East Bernard), 25 (Cleveland), 32 (Jasper), and 40 (Natchitoches, LA).
Texas Eastern Transmission	9/14/08	Pipeline system in STX has been restored to pre-Ike levels but many critical facilities are running on backup generator. Receipt points on the South & Main Pass lines remain shut-in, pending assessments due to Gustav.
Texas Gas Transmission	9/13/08	Henry Hub is not accepting gas from pipeline. Notice of reduced flow - Producers have notified TGT of
Transcontinental Gas Pipe Line	9/13/08	Approximately 1.0 Mdt/d of production has been shut-in. Instituting Emergency Gas Supply Procedures
Trunkline Gas Pipeline	9/14/08	Commercial power lost at 3 compressor stations in TX - Cypress (running on backup), Centerville & Kountze (no horsepower at stations) resulting in limited capacity through TX system of pipeline. Communication reporting for points on system are down in TX.
Venice Gathering System	9/4/08	Remains shut in from the effects of Gustav.
Dauphin Island Gathering Partners	9/10/08	Force Majeure declared. Deliveries will be unavailable until Sep 12, 2008 at the earliest and will not resume until Ike has passed.
Black Marlin Pipeline	9/12/08	Force Majeure declared Friday, Sept 12. - no gas flow being accepted.
Northern Natural	9/12/08	Force Majeure declared Friday, Sept. 12 - Matagorda Offshore Pipeline System.



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Natural Gas Processing Plants in the Path of Ike & Gustav as of 9/15/08 10:00 AM EDT							
Plant Name	Location	Impact	Capacity (million cubic feet per day) <sup>1</sup>				
			Design System Operation	Shut Down	Capable to Restart <sup>2</sup>	Operating at Reduced Level	Normal
<b>EAST LA / AL</b>							
Yscloskey	St. Bernard, LA	G	1,850	1,850			
Venice	Plaquemines, LA	G	1,300	1,300			
Pelican	St. Mary, LA	G	600	600			
Larose	Lafourche, LA	G + I	600	600			
Plaquemine	Iberville, LA	G	225	225			
Burns Point	St. Mary, LA	G	160	160			
Mobile Bay (Duke)	Mobile, AL	M	300	300			
<b>WEST LA / EAST TX</b>							
Eunice	Acadia, LA	G + I	1,200	1,200			
Sea Robin	Vermilion, LA	G + I	950	950			
Bluewater	Acadia, LA	G + I	950	950			
Cameron Meadows	Cameron, LA	G + I	500	500			
Iowa	Jefferson Davis, LA	G + I	500	500			
Grand Chenier II	Cameron, LA	G + I	400	400			
Sabine Pass	Cameron, LA	G + I	300	300			
Stingray	Cameron, LA	G	300	300			
Lowry	Cameron, LA	G + I	265	265			
Barracuda	Cameron, LA	G + I	225	225			
Gillis	Calcasieu, LA	G + I	180		180		
Dubach	Lincoln, LA	G	175				175
East Texas (MarkWest)	Panola, TX	I	780	780			
East Texas (DCP)	Panola, TX	-	750	750			
Godley (Forth Worth II)	Johnson, TX	I	300	300			
Port Arthur	Jefferson, TX	G + I	200		200		
Carthage	Panola, TX	I	175	175			
Indian Springs	Polk, TX	I	150	N/A	N/A	N/A	N/A
<b>CENTRAL EAST TX</b>							
Houston Central	Colorado, TX	-	700			700	
Markham	Matagorda, TX	G + I	300		300		
Matagorda	Matagorda, TX	G + I	250	250			
Armstrong	De Witt, TX	I	250				250
Point Comfort	Calhoun, TX	I	200	200			
Old Ocean	Brazoria, TX	I	200	200			
Wilcox	Lavaca, TX	I	200	200			
La Grange	Fayette, TX	I	200	200			
Waskom	Harrison, TX	-	150				150
<b>SOUTH EAST TX</b>							
King Ranch	Kleberg, TX	-	925				925
Shoup	Nueces, TX	-	290				290
La Gloria	Jim Wells, TX	-	265				265
Gregory	San Patricio, TX	I	150	150			
Gulf Plains	Nueces, TX	-	150				150

**Note:** Storm column indicates hurricanes impacting processing plant: G = Gustav; I = Ike, G+I = Both storms, and M = Maintenance  
 "N/A" (Not Available or Confirmed) identifies those plants that are in the path of Ike that have not yet been confirmed of their status.

<sup>1</sup> The capacity represents the design capacity of the plants and does not represent the actual gas flow through these plants.

<sup>2</sup> Confirmed plants capable to restart after electricity is restored or when upstream gas flow commences service.

**Sources:** Confirmed by company or on company web site. Various trade press sources.



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## Electricity Updates:

### Louisiana:

As of: 9/15/2008 6:00 AM EDT



Electricity Outages: Utility Detail			
Louisiana			
Utility	Outages	Total Utility	% w/o Power
Cleco Power LLC	2,759	265,556	1.0%
Entergy (Gulf States, Louisiana, New Orleans combined)	62,322	1,140,194	5.5%
SWEPSCO	39,854	174,213	22.9%
All Cooperatives	21,055	413,231	5.1%
All Municipal		156,155	0.0%
<b>TOTAL</b>	<b>125,990</b>	<b>2,149,349</b>	

Total state and utility customers are based on 2006 EIA Customer Data; Electric Cooperative customer totals provided by Louisiana Public Service Commission.

Note: due to a large number of service providers, including investor owned utilities and cooperatives, the number of customer outages reported may not be comprehensive.

- As of 6:00 AM EDT September 15, there are 125,990 customers without power in Louisiana. Of these outages, 114,129 are due to Ike. Gustav-related outages are down to 11,861.
- In Louisiana, Ike caused outages for 37 lines and 51 substations of which 19 lines and 15 substations have been restored. Remaining Gustav damage to the transmission system includes 16 lines and nine substations out of service.



**Texas:**

As of: 9/15/2008 8:00 AM EDT



<b>Electricity Outages: Utility Detail</b>			
<b>Texas</b>			
<b>Utility</b>	<b>Outages</b>	<b>Total Utility</b>	<b>% w/o Power</b>
SWEPCO	56,404	168,589	33.5%
Entergy Texas	389,717	398,635	97.8%
CenterPoint	1,670,526	2,076,978	80.4%
ONCOR	89,175	2,260,229	3.9%
TX New Mexico Power Co	78,935	113,370	69.6%
Trinity Valley	5,750	58,859	9.8%
Mid South Synergy	12,720	12,720	100.0%
Sam Houston	66,493	66,493	100.0%
San Bernard	4,467	29,074	15.4%
<b>TOTAL</b>	<b>2,374,187</b>	<b>5,184,947</b>	

Total utility customers are based on field reports.

Note: due to a large number of service providers, including investor owned utilities and cooperatives, the number of customer outages reported may not be comprehensive.

- In Texas, over 2.3 million people are reported without power. The majority of these are customers of CenterPoint and Entergy.
- Centerpoint reports that 1,129 distribution circuits, out of a total of 1,492, are out. There are 66 transmission lines out. Eight substations are without transmission service. There is no report at this time of any transmission tower being down, only wood poles.
- Entergy reports transmission outages caused by Ike include 278 of 312 substations and 183 of 187 transmission lines out of service in Texas. Entergy’s Lewis Creek plant in Montgomery County, Texas, has shut down as a result of storm damage. The plant will be able to restart within a few hours after offsite power is restored. Hurricane Ike flooded Entergy’s Sabine Power plant in Bridge City, Texas, with up to four feet of water. The flood has caused extensive damage to the plant that could take weeks to repair.

**Additional State Reports:**

- There are an estimated 107,963 customers in Arkansas who remain without power. Entergy reports 101,441 customers without power as of 6:00 AM EDT September 15, and SWEPCO reports 6,522 without power as of 10:00 PM EDT September 14. Entergy reports the majority of repairs should be complete within a few days. More difficult cases may take up to a week. Entergy has restored 38 of the 39 substations in Arkansas, and four of the eleven transmission lines affected by Hurricane Ike.



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- As of 7:45 EDT September 15, approximately 472,500 or 22 percent of total customers in Kentucky are without power. A majority of these outages are occurring in Duke Energy, Louisville Gas & Electric and Kentucky Utilities service territories.
- As of 7:45 EDT September 15, approximately 784,700 or 14 percent of total customers in Ohio are without power. A majority of these outages are occurring in the Duke Energy and AEP Ohio service territories.

### Restoration Updates:

- As of 10:00 PM EDT September 14, CenterPoint had restored power to more than 425,000 customers. 250 circuits have been restored out of the original 1,379 that were out. 28 transmission lines have been restored out of the original 94 that were out. CenterPoint reports that full restoration may take four weeks or longer, pending full assessments.
- CenterPoint reports that 7,000 mutual assistance personnel began to arrive September 14 to assist in restoration. Highlights of CenterPoint restoration to date include:
  - The Katy, Richmond and Rosenberg areas
  - Hobby Airport and Ellington Field
  - Coastal Water Authority Lynchburg water pumping station, a major source of water for the City of Houston and other smaller communities in the area
  - Service restoration for one water treatment facility and one wastewater treatment plant in the City of Houston
  - Several area hospitals
- Entergy is shifting crews from Louisiana to Texas. Entergy's total restoration workforce to 14,500, with 7,000 in Texas, 6,700 in Louisiana and 900 in Arkansas