



U.S. Department of Energy  
Emergency Support Function 12

Hurricane Ike Situation Report # 6

September 16, 2008 (3:00 PM EDT)

[http://www.oe.netl.doe.gov/emergency\\_sit\\_rpt.aspx](http://www.oe.netl.doe.gov/emergency_sit_rpt.aspx)

Summary

Electricity		
Impacted State	Electric Customer Outages	% of State Out
Louisiana	44,418	2%
Arkansas	26,000	2%
Kentucky	328,900	15%
Indiana	86,900	3%
New York	21,300	1%
Pennsylvania	56,000	1%
Ohio	1,083,600	20%
Texas	2,075,164	19%
<b>TOTAL:</b>	<b>3,722,282</b>	
Petroleum & Natural Gas		
	Amount	% Capacity Out*
Crude Oil Production Shut-In (b/d)	1,263,730	97.2%
Natural Gas Production Shut-in (mmcf/d)	6,231	84.2%
Refinery Capacity Shut down (b/d)	2,996,320	NA

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 1:00 PM EDT September 16, there are an estimated 3,722,282 customers without power in the States most heavily impacted by Ike (see summary table above) plus an additional 9,480 customers without power in Illinois, West Virginia, and Missouri. Largest outages remain in Texas where 2,075,164 customers are without power.
- On September 15, the U.S. Environmental Protection Agency issued a waiver for Texas permitting the use Federally-compliant ultra low sulfur diesel (ULSD) in lieu Texas Low-Emission Diesel (TxLED) through September 30, 2008.
- Oil tankers must still wait in the Gulf of Mexico as draft restrictions prevent them from entering waterways in the hurricane affected areas. The Port of Freeport, TX is still closed. The Coast



# U.S. Department of Energy Emergency Support Function 12

Guard Captain of the Port of Houston-Galveston, TX reports that Galveston is still closed and the Houston Ship Channel is still restricted to vessels with drafts of 12 feet or less. **The Gulf Intracoastal Waterway (GIWW) from the Houston Ship Channel to the Port Arthur, TX bridge is closed with three sunken vessels making it impassible.** The waterways in the Port Arthur, Texas area are restricted to vessels with a draft of 16 feet or less. **The Calcasieu Channel leading into the Port of Lake Charles, LA re-opened as of 3:00 PM September 15 to vessels with drafts of 16 feet or less. Pascagoula, MS is open for vessels with drafts less than 30 feet and in daylight hours for vessels with drafts more than 30 feet, but less than 36 feet**

## ESF 12 Actions:

- ESF-12 is working to facilitate restoration of critical assets in the affected area. This includes coordination with DHS and the Ohio National Guard to use a Chinook helicopter for carrying heavy equipment needed to rebuild parts of the Entergy system. ESF-12 also is working closely with those conducting assessments of physical energy infrastructure in the field which will assist in developing restoration estimates. ESF-12 responders participated in the flights to assist in air-based damage assessments of the CenterPoint and Entergy electric transmission systems.
- ESF-12 staff is en route to the Region V Regional Response Coordination Center (RRCC) in Chicago, IL. ESF-12 is staffing the FEMA Region VI 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)	1,263,730	1,300,000	97.2%
Natural Gas (MMCF/D)	6,231	7,400	84.2%

Source: Minerals Management Service

- **As of September 16, the Minerals Management Service (MMS) reports 6,231 million cubic feet per day (MMcf/d) of the Gulf's natural gas production remains shut-in, equivalent to 84.2 percent of the Gulf production. MMS reports 1,263,730 barrels/day of the Gulf's crude production remains shut-in, equivalent to 97.2 percent of the Gulf's crude production. A total of 498 production platforms, or 69.5 percent of the Gulf's 717 manned platforms, remain evacuated. Personnel from 71 rigs, representing 58.7 percent of those operating in the region, remain evacuated.**



## U.S. Department of Energy Emergency Support Function 12

- On September 15, the head of Louisiana’s Department of Natural Resources reports that 33,975 barrels/day or 22 percent of the normal Louisiana oil 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). Shut-in oil production is 85,730 barrel/day or 55 percent of the normal production and the status of 36,062 barrels/day is unknown. The estimated amount of restored gas production is 548 MMcf/d or 33 percent of the daily gas production capacity, which is 1,642 MMcf/d. The estimated amount of shut-in gas production is 703 MMcf/d and the status of the remaining 389 MMcf/d has not been confirmed.
- Major crude pipelines originating in Texas and Louisiana shut down operations in advance of Hurricane Ike, and many have terminals at the origin that remain shut. Colonial pipeline reported at 9:30 AM EDT September 16 that the pipeline operated at improved but still reduced rates overnight. Portable generators are installed and operating to access stranded barrels at Hebert and Port Arthur, including Kinder Morgan’s Pasadena terminal. Half of Colonial’s stub lines were running overnight and the others are scheduled to make deliveries over the next couple of days. (See table below.)

Pipelines in the Path of Gustav / Ike as of 9/16/08 2:00 PM 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.

- As of 9:00 AM EDT September 16, two refineries have entered restart process – Deer Park and ConocoPhillips Sweeny. Twelve refineries in Texas and Louisiana remain 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 3.0 million b/d. (See table below.)



# U.S. Department of Energy Emergency Support Function 12

Refineries in the Path of Gustav / Ike as of 9/16/08 2:00 PM 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>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>1,763,820</b>	<b>576,800</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>381,126</b>	<b>298,000</b>
<b>TOTAL</b>			<b>7,503,309</b>	<b>2,996,320</b>	<b>1,058,800</b>	<b>2,044,426</b>	<b>1,317,763</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.

- Oil companies are installing generators at gas stations in the Houston and Beaumont area, especially along re-entry routes, where power is not reliable. Shell reported deploying 19 generators as of September 15, and securing another ten generators for potential deployment later this week. ExxonMobil and Chevron both report installing portable generators and making



# U.S. Department of Energy Emergency Support Function 12

product deliveries at priority or strategic sites. Chevron also dispatched 20 tanker trucks from other areas of the country to Houston to expedite fuel distribution in the impacted area.

- The Independence Hub platform, located about 150 miles offshore LA in Mississippi Canyon reported gas flow of over 700 million cubic feet on September 15, which is an increase of approximately 100 million cubic feet from 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 10:00 AM EDT September 16, the Sabine Pipeline reports that the Force Majeure has been lifted for certain points along its system including the Henry Hub. Compression at the Henry Hub complex remains unavailable at this time and Sabine advises its customers that gas flow through the system must be received at sufficient pressure.
- As of 12:00 PM EDT September 16, many natural gas pipelines impacted by Ike and Gustav continue to inspect and assess damage to their facilities. Certain portions of pipeline segments have commenced gas flow or are ready to resume flow once third-party facilities complete inspections. Reports of flood damage and lack of power continue to delay the return of facilities and in some cases it is likely to take several weeks for repairs and clean up in order to restart.
- As of 6:28 PM EDT September 15, the Enbridge Offshore pipeline systems remain under Force Majeure and remain shut-in until operation personnel can gain access to the facilities and conduct more thorough inspections. See table below for more details.
- As of 9:00 PM EDT September 15, Tennessee Gas Pipeline (TGP) reports that all points upstream of the Grand Chenier and Sabine processing plants remain shut in. Crosstex informed TGP that the Sabine plant experience storm surge and assessments are underway and the Bluewater plant is currently ready to process once upstream flow commences. The Grand Chenier, owned by CDM Max reports to TGP that personnel are conducting damage assessments. Lastly, Targa Resources, partial owner and operator of the Yscloskey plant in St. Bernard Parish, LA experienced additional water damage from Ike. The plant has been reported shut down since Hurricane Gustav.
- 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 1:00 PM EDT, September 16, the Energy Information Administration (EIA) has confirmed that 22 plants remain shut down which includes those plants still impacted from Gustav, totaling an operating capacity of 10.97 Bcf/d (approximately 62 percent of the capacity in Hurricane Ike's path). In addition, EIA reports that 11 plants have resumed operations at reduced or normal levels totaling 4.51 Bcf/d operating capacity and 6 plants are capable to restart totaling 2.12 Bcf/d operating capacity once power is restored or upstream gas flow commences.



**U.S. Department of Energy  
Emergency Support Function 12**

**Force Majeure / Critical Notice Posting by Natural Gas Pipelines as of 9/16/08 12:00 PM EDT**

Pipeline Name	Time Stamp	Notice (Status)
ANR Pipeline Co.	9/15/08	Patterson Compressor station has shut down effectively eliminating all upstream points until further notice. <b>Houston office is closed.</b>
Chandeleur Pipeline Co.	9/12/08	Notified customers of loss of all offshore production.
Columbia Gulf Transmission	9/14/08	Flow from offshore points has been reduced to approximately 20% of normal operating capacity.
Destin Pipeline Co.	9/15/08	Pascagoula processing plant declares Force Majeure Monday, Sept. 15.
Discovery Gas Transmission	9/16/08	<b>Offshore receipts are currently unavailable pending assessments; some onshore receipt &amp; delivery pts accepting gas flow at reduced levels.</b>
Enbridge (UTOS)	9/15/08	The onshore facilities have 4 to 5 feet of standing water. Operations personnel will be attempting to gain access Tuesday, September 16.
Garden Banks Gas Pipeline	9/15/08	Force Majeure declared Tuesday, Sept 9. Initial flyover for damage assessment is being conducted.
High Island Offshore System	9/16/08	<b>Force Majeure from Sept 10 remains in effect until evaluation of facilities is completed.</b>
KinderMorgan (Texas & Tejas)	9/13/08	Force Majeures declared Friday, Sept 12. No storage capability.
Manta Ray Offshore Gathering	9/15/08	Force Majeure declared Tuesday, Sept 9. Some damage reported to platforms & offshore facilities. Repair crews are en route.
Mississippi Canyon Pipeline	9/15/08	Force Majeure carried over from Gustav – Personnel onsite; no major damage reported. Venice plant reported under water.
Natural Gas Pipeline Co of America	9/13/08	Force Majeure declared Thursday, Sept 11. Compressor Stations down in TX and LA.
Nautilus Pipeline Co.	9/15/08	Force Majeure declared Tuesday, Sept 9. - No confirmed damage; assessments underway.
Sabine Pipe Line (Henry Hub)	9/16/08	<b>Force Majeure has been lifted for certain points along the system. Henry Hub is accepting gas flow but compression remains unavailable.</b>
Sea Robin Pipeline Co.	9/16/08	<b>Inspection of facilities underway. Sea Robin processing plant remains shut down, pending assessment.</b>
Southern Natural Gas Co.	9/16/08	<b>Offshore facility inspection is underway - Sonat has an estimated loss in supply of 460 MMcf/d as a result of the hurricanes.</b>
Stingray Pipeline Co.	9/15/08	Forced Majeure declared Wednesday, Sept 10. - Damage assessments underway. Potential leaks in interconnecting gathering lines.
Tennessee Gas Pipeline	9/16/08	<b>Estimates current supply loss to be at approximately 1.0 Bcf.</b>
Texas Eastern Transmission	9/16/08	<b>Flow at zero at points on the Cameron, South Pass &amp; Main Pass lines.</b>
Texas Gas Transmission	9/16/08	<b>Henry Hub point available for gas flow.</b>
Transcontinental Gas Pipe Line	9/15/08	Emergency Gas Supply Procedures remain in effect. Currently assessing onshore & offshore facilities.
Trunkline Gas Pipeline	9/15/08	Force Majeure declared Monday, Sept 15. <b>Power has been restored to compressor stations. Communication reporting for points on system remain lost.</b>
Venice Gathering System	9/10/08	Remains shut in from the effects of Gustav.
Dauphin Island Gathering	9/12/08	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	9/15/08	Force Majeure declared Friday, Sept 12. - no gas flow being accepted.
Gulf South Pipeline	9/12/08	Critical Period still in effect-Flow on certain segments reduced. Houston office remains closed (Sept 15)
Northern Natural	9/11/08	Force Majeure declared Friday, Sept. 12 - Matagorda Offshore Pipeline System.



**U.S. Department of Energy  
Emergency Support Function 12**

Natural Gas Processing Plants in the Path of Ike & Gustav as of 9/16/08 12:00 PM 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>							
Ysidoskey	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	150			
<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	220		220		
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, M = Maintenance, and - = no impact  
 "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.



**Electricity Updates:**

**Louisiana:**

As of: 9/16/2008 11:00 AM EDT



- As of 11:00 AM EDT September 16, there are 44,418 customers without power in Louisiana. Entergy reports with 23,084 outages; SWEPCO 5,272 outages; CLECO 504 outages, and cooperative utilities have a total of 15,558 customers without power. This is a decrease of 15,734 outages from Ike Situation Report No. 5. Of remaining outages, 7,520 are due to Gustav. Entergy has restored power to over 950,000 customers who lost power due to Gustav and Ike. Entergy reports that remaining Gustav damage to the transmission system includes 15 lines and seven substations out of service. SWEPCO reports as of 8 p.m. Monday, four transmission lines were out of service as a result of the storm.

**Texas:**

As of: 9/16/2008 11:00 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	26,356	168,589	15.6%
Entergy Texas	366,550	398,635	92.0%
CenterPoint	1,399,705	2,076,978	67.4%
ONCOR	52,000	2,253,929	2.3%
TX New Mexico Power Co	69,925	113,370	61.7%
All Cooperatives	160,628	389,073	41.3%
<b>TOTAL</b>	<b>2,075,164</b>	<b>5,400,574</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.

- As of 11:00 AM EDT September 16, 2,075,164 customers are reported without power in Texas. This is reduction of about 200,000 customers from Situation Report No. 5.
- As of 9:00 PM September 15, CenterPoint reports the number of facilities out of service includes: 90 transmission facilities; 126 equipment in substations; and 1,348 distribution circuits. The number of facilities restored includes: 55 transmission facilities; 119 equipment in Substations; and 342 distribution circuits.

**Additional State Reports:**



## U.S. Department of Energy Emergency Support Function 12

- Ike caused major power outages in Arkansas and parts of the Midwest, Ohio Valley and Northeast. Outages as of 1:30 PM EDT September 16:
  - Ohio - 1,083,600 outages, 20 percent of total customers
  - Kentucky – 328,900 outages, 15 percent of total customers
  - Indiana – 86,900 outages, 3 percent of total customers
  - Pennsylvania – 56,000, 1 percent of total customers
  - Arkansas – 26,000 outages, 2 percent of customers
  - New York – 21,300 outages, less than 1 percent of total customers
  - Missouri - 5,400 outages, less than 1 percent of total customers
  - Illinois - 480 outages, less than 1 percent of total customers
  - West Virginia – 3,600 less than 1 percent

### Restoration Updates:

- As of 11:00 AM September 16, CenterPoint has restored power to over 667,000 customers. Centerpoint estimates that 50 to 75 percent of its customers will have power restored within seven to ten days; the remainder within three weeks, based on current assessments. CenterPoint has 4,200 internal and contractor personnel and over 7,000 mutual assistance crews from over 25 states assisting in the restoration.
- CenterPoint reports that 7,000 mutual assistance personnel began to arrive September 14 to assist in restoration. Highlights of CenterPoint’s recent restoration include:
  - The Department of Energy Bryan Mound facility, an important component of the United States Strategic Petroleum Reserve
  - Colonial Pipeline
  - 43 area hospitals
- In Texas, Entergy made initial transmission restoration to Beaumont-area substations on September 15.
- Entergy and CenterPoint worked together to restore an emergency tie between the two companies to the main water supply for the city of Houston.
- Entergy reports current transmission outages caused by Ike include 162 transmission lines and 231 substations out of service across the service territory.
- Entergy’s Lewis Creek plant in Montgomery County, Texas, has shut down as a result of storm damage. It will be able to restart within a 16 hours after offsite power is restored. Restoration of transmission service to the Lewis Creek plant is being worked as a high priority. Lewis Creek will be able to restart within a few hours after offsite power is restored. The loss of generation from Entergy’s Sabine plant due to flooding from Hurricane Ike's storm surge resulted in a generation shortfall in the Western region of Entergy Texas, Inc.’s territory. Until damage to the plant can be assessed and restoration time can be estimated Entergy is balancing system load and generation. Flood waters at Sabine have receded and safety assessment and environmental clean-up has begun.



## U.S. Department of Energy Emergency Support Function 12

- Entergy has offsite crews from 34 states. Due to the large number of outages caused by Ike in over 10 states, availability of Entergy's approximately 14,000 restoration crews could change as contract crews are recalled to other states. As restoration is made in Arkansas and Louisiana, Entergy is shifting its crews to Texas.
- In Texas, Entergy restoration estimates by area are:
  - September 21 - Orange, Vidor
  - September 22 - Navasota
  - September 23 - Port Arthur, Port Neches, Nederland, Groves
  - September 25 - Winnie, Anahuac, Dayton, Ames, Daisetta, Batson, Saratoga, The Woodlands
  - September 29 - Woodville, Silsbee, Lumberton, Kountze, Conroe, Huntsville, Madisonville
  - October 5 - New Caney, Cleveland
  - October 6 - Beaumont, Bevil Oaks, Sour Lake
  - Flooded - no date determined-Country Club Estates near Port Arthur
  - Flooded - no date determined-Bolivar Peninsula
  - Flooded - no date determined-Sabine Pass
- In Louisiana, Entergy restoration estimates by Parish are:
  - September 16 - Acadia, Allen, East Feliciana
  - September 17 - Assumption, East Baton Rouge
  - September 18 - Calcasieu, Jefferson (lower portion only, except Grand Isle), Plaquemines, St. Bernard
  - September 20 - Lafourche (except Fourchon).
  - September 24 - Ascension (Donaldsonville), Iberville, St. Martin
  - September 25 - Lafourche (Fourchon)
  - September 27 - Terrebonne.
  - October 1 - Jefferson (Grand Isle).