



U.S. Department of Energy  
Emergency Support Function 12

Hurricane Ike Situation Report # 5

September 16, 2008 (10:00 AM 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	60,152	3%
Arkansas	33,433	2%
Kentucky	355,900	16%
Indiana	85,200	3%
New York	33,700	1%
Pennsylvania	59,600	1%
Ohio	1,046,400	19%
Texas	2,202,334	21%
<b>TOTAL:</b>	<b>3,876,719</b>	
Petroleum & Natural Gas		
	Amount	% Capacity Out*
Crude Oil Production Shut-In (b/d)	1,298,309	99.9%
Natural Gas Production Shut-in (mmcf/d)	6,942	93.8%
Refinery Capacity Shut down (b/d)	3,573,120	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 8:00 AM EDT September 16, there are an estimated 3,876,719 in the States most heavily impacted by Ike (see summary table above) plus an additional 12,024 in Illinois, West Virginia, and Missouri. Largest outages remain in Texas where 2,202,334 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.
- The Coast Guard Captain of the Port of Houston-Galveston has re-opened portions of the Gulf Intercoastal Waterway and Houston Channel to commercial vessel traffic, with some restrictions. The following openings and restrictions are in effect: - The Houston Channel is open to



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outbound commercial vessels with a draft of 12-feet or less. The Gulf Intracoastal Waterway (GIWW) is open to from the Houston and Galveston area, west toward Corpus Christi, Texas. The GIWW from Houston to Port Arthur, Texas is not passable from mile marker 238 to 350. The Port of Freeport, Texas is still closed. The waterways in the Port Arthur, Texas area are restricted to vessels with a draft of 16 feet or less. The Port of Lake Charles, LA is closed. There are many restrictions in effect in Louisiana waterways including the Lower Mississippi River.

- 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.

## 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. 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 staff is enroute 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)	1,298,309	1,300,000	99.9%
Natural Gas (MMCF/D)	6,942	7,400	93.8%

Source: Minerals Management Service

- As of September 15, the Minerals Management Service (MMS) reports 6,942 million cubic feet per day (MMcf/d) of the Gulf’s natural gas production remains shut-in, equivalent to 93.8 percent of the Gulf production. MMS reports 1,298,309 barrels/day of the Gulf’s crude production remains shut-in, equivalent to 99.9 percent of the Gulf’s crude production. A total of 562 production platforms, or 78.4 percent of the Gulf’s 717 manned platforms, have been evacuated. Personnel from 82 rigs, representing 67.8 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 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 remain shut. Colonial pipeline reported at 7:30 PM EDT September 15, that the pipeline is receiving injects from storage facilities and refineries at Collins, MS, Baton Rouge, LA, Lake Charles, LA, and Pasadena, TX. Portable generators have been installed in Beaumont where commercial power is at least a week away. (See table below.)

Pipelines in the Path of Gustav / Ike as of 9/16/08 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.

- As of 9:00 AM EDT September 16, 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.)
- 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 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.



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- ConocoPhillips reports that the Pasadena, TX, refined products distribution terminal reopened on the morning of September 15. The Clifton Ridge Marine Terminal near Lake Charles, LA is also now open.

Refineries in the Path of Gustav / Ike as of 9/16/08 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>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>1,059,403</b>	<b>624,760</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	Seely, 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>2,251,429</b>	<b>1,110,760</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.



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- 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.
- Damage assessments by natural gas pipeline operators are well underway. Points that were in the path of Ike are for the most part reporting flood damage and lack of power. Some facilities still have standing water and it will likely take several weeks for repairs and clean up in order to restart these facilities. If the standing water is sea water then expected even longer delays in restarting. There have been reports of minor damage to off-shore facilities including pipeline breaches on several main and gathering lines. It is too early to generate a detailed damage repair schedule, but as of now these repairs should not take more than a few weeks to complete weather permitting.
- 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.
- As of 5:30 PM EDT September 15, Destin Pipeline Company has been notified by the Pascagoula Processing plant that volumes currently available on the Destin system are insufficient for commencing plant operations. This is considered a force majeure event by the plant for gas day September 15, 2008 and will remain in effect until further notice. Note the Pascagoula plant is not depicted on the table as it was running at reduced levels when Ike made landfall. The plant has an operating capacity of 1.5 Bcf/d
- 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, the Energy Information Administration (EIA) has confirmed that 23 plants remain shut down which includes those plants still impacted from Gustav, totaling an operating capacity of 11.29 Bcf/d (almost 65 percent of the capacity in Hurricane Ike's path). Thirteen of the 23 plants are located in LA. In addition, EIA reports that 10 plants have resumed operations at reduced or normal levels totaling 4.26 Bcf/d operating capacity and 5 plants are capable to restart totaling 1.9 Bcf/d operating capacity once power is restored or upstream gas flow commences.



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**Force Majeure / Critical Notice Posting by Natural Gas Pipelines as of 9/16/08 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.	9/15/08	Pascagoula processing plant declares Force Majeure Monday, Sept. 15.
Discovery Gas Transmission	9/12/08	Force Majeure declared Friday, Sept 12.
Enbridge (UT OS)	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	9/10/08	Force Majeure declared Wednesday, Sept 10.
Kinder Morgan (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 processing plant is under water.
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.	9/15/08	Force Majeure declared Tuesday, Sept 9. - No confirmed damage; assessments underway.
Sabine Pipe Line (Henry Hub)	9/15/08	Force Majeure remains in effect. Potential flooding along system. Damage assessments underway.
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.	9/15/08	Force Majeure declared Wednesday, Sept 10. - Damage assessments underway. Potential leaks in interconnecting gathering lines.
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	9/15/08	Emergency Gas Supply Procedures remain in effect. Currently assessing onshore & offshore facilities.
Trunkline Gas Pipeline	9/15/08	Force Majeure declared Monday, Sept 15. Commercial power, flooding and third party interconnect has impacted flow on system. 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.
Gulf South Pipeline	9/15/08	Critical Period still in effect-Flow on certain segments reduced. Houston office remains closed (Sept 15)
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 9/16/08 8:00 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>							
Ysloskey	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: 9/16/2008 6:30 AM EDT



Electricity Outages: Utility Detail			
Louisiana			
Utility	Outages	Total Utility	% w/o Power
Cleco Power LLC	1,815	265,556	0.7%
Entergy (Gulf States, Louisiana, New Orleans combined)	24,426	1,140,194	2.1%
SWEPCO	14,498	174,213	8.3%
All Cooperatives	19,413	413,231	4.7%
All Municipal		156,155	0.0%
<b>TOTAL</b>	<b>60,152</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 6:30 AM EDT September 16, there are 60,152 customers without power in Louisiana. This is a decrease of 45,829 outages from Ike Situation Report No. 4. Of remaining outages, 94,120 are due to Ike and 11,861 are due to Gustav. Entergy has restored power to 938,374 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.



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## Texas:



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

Electricity Outages: Utility Detail			
Texas			
Utility	Outages	Total Utility	% w/o Power
SWEPCO	56,404	168,589	33.5%
Entergy Texas	370,752	398,635	93.0%
CenterPoint	1,542,988	2,076,978	74.3%
ONCOR	59,004	2,260,229	2.6%
TX New Mexico Power Co	76,804	113,370	67.7%
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%
Upshur	6,952	42,642	16.3%
San Bernard	4,467	29,074	15.4%
<b>TOTAL</b>	<b>2,202,334</b>	<b>5,227,589</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 8:00 PM EDT September 15, over 2.2 million people are reported without power in Texas.
- As of 9:00 PM September 15, CenterPoint reports the number of facilities out of service include: 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:

- Ike caused major power outages in Arkansas and parts of the Midwest, Ohio Valley and Northeast. Outages as of 8:30 AM EDT September 16:
  - Ohio - 1,046,100 outages, 19 percent of total customers
  - Kentucky - 355,900 outages, 16 percent of total customers
  - Indiana - 85,200 outages, 3 percent of total customers
  - New York - 33,700 outages, less than 1 percent of total customers
  - Arkansas - 33,433 outages, 2 percent of customers
  - Missouri - 8,400 outages, less than 1 percent of total customers
  - Illinois - 600 outages, less than 1 percent of total customers
  - Pennsylvania - 59,600, 1 percent of total customers
  - West Virginia - 3,024 less than 1 percent



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### Restoration Updates:

- As of 9:00 PM September 15, CenterPoint has restored power to over 583,000 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 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. 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.
- 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 Louisiana, Entergy restoration estimates by Parish are:
  - September 16 - East Feliciana
  - September 17 - Assumption, East Baton Rouge
  - September 18 - Jefferson (lower portion only, except Grand Isle), Plaquemines.
  - September 20 - Lafourche (except Fourchon).
  - September 24 - Ascension (Donaldsonville), Iberville, Lafourche (Fourchon), St. Martin.
  - September 27 - Terrebonne.
  - October 1 - Jefferson (Grand Isle).