



U.S. Department of Energy  
Emergency Support Function 12

Hurricane Ike Situation Report # 11

September 19, 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	15,696	1%
Kentucky	130,620	6%
Indiana	25,715	1%
Pennsylvania	5,930	1%
Ohio	323,700	6%
Texas	1,529,749	14%
<b>TOTAL:</b>	<b>2,031,410</b>	
Petroleum & Natural Gas		
	Amount	% Capacity Out*
Crude Oil Production Shut-In (b/d)	1,209,078	93.0%
Natural Gas Production Shut-in (mmcf/d)	5,740	77.6%
Refinery Capacity Shut down (b/d)	2,351,320	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 8:00 AM EDT September 19, there are an estimated 2,031,410 customers without power in States where the largest outages due to Hurricane Ike remain (see summary table above) plus an additional 157 outages in Arkansas and Missouri. The largest outages remain in Texas where 1,529,749 customers are without power. Across all states affected by Ike, power has been restored to approximately 304,000 customers since Ike Situation Report No. 10.
- On September 18, EPA issued an emergency waiver through October 7, of the Reformulated Gasoline (RFG) requirements in the District of Columbia and the counties where RFG is required in Maryland and Virginia. This waiver extends an RFG waiver that was already in effect in Virginia from September 12 to 26
- As of 12:00 AM EDT September 19, the Port of Corpus Christi has limited vessels to drafts of less than 32 feet in the Matagorda Bay area. The Ports of Freeport, Galveston, Texas City, and the Houston Ship Channel are open at all times to vessels with a draft of less than 16 feet and



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open to deep draft vessels only during daylight hours. Vessels going through the rivers and channel into the Port Arthur area are limited to drafts of 30 feet or less at night and 36 feet for daylight. **The Gulf Intracoastal Waterway is closed from Bolivar west to the Port Arthur, TX bridge and has some closures and safety zones in LA as well, although it has no restrictions in the Lake Charles, LA area.** The Calcasieu Channel and Lake Charles is limited to vessels with drafts of less than 39 feet for daylight transit and only 16 feet at all other times. **Tankers in Pascagoula, MS require a USCG vessel to guide them through an area with a shoal. The Lower Mississippi River now has no restrictions on commercial vessels. Due to flooding from Ike, the Illinois River is closed to all recreational and commercial traffic from Peoria, IL mile marker 160.0 to Chillecothe, IL mile marker 181.**

## ESF 12 Actions:

- ESF-12 is staffing the FEMA Region VI Joint Field Office (JFO) in Austin, TX, the Region V RRCC in Chicago, IL, 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. The FEMA Region VI JFO in Baton Rouge, LA has been demobilized. **The FEMA Region VI Regional Response Coordination Center in Austin, TX has been demobilized.**

## 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)	1,209,078	1,300,000	93.0%
Natural Gas (MMCF/D)	5,740	7,400	77.6%

Source: Minerals Management Service

- As of September 18, the Minerals Management Service (MMS) reports 5,740 million cubic feet per day (MMcf/d) of the Gulf's natural gas production remains shut-in, equivalent to 77.6 percent of the Gulf production. MMS reports 1,209,078 barrels/day of the Gulf's crude production remains shut-in, equivalent to 93.0 percent of the Gulf's crude production. A total of 326 production platforms, or 45.5 percent of the Gulf's 717 manned platforms, remain evacuated. Personnel from 19 rigs, representing 15.7 percent of those operating in the region, remain evacuated.
- **On September 18, the Louisiana's Department of Natural Resources reports that 26,945 b/d or 17 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 95,416 b/d and the status of remaining 33,405 b/d is unknown. The estimated amount of restored gas production is 434**



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MMcf/d or 27 percent of the daily gas production capacity, which is 1,642 MMcf/d. The estimated amount of shut-in gas production is 894 MMcf/d; the status of the remaining 312 MMcf/d has not been confirmed.

- Major crude pipelines originating in Texas and Louisiana shut down operations in advance of Hurricane Ike, and some terminals at the origin remain closed. Colonial pipeline reported at 1:30 PM EDT September 18 that its system continues to operate at reduced rates, awaiting additional supplies from ports, stocks and refineries. As of 9:00 AM September 19, Longhorn pipeline reports that it has resumed normal operations.

Pipelines in the Path of Gustav / Ike as of 9/19/08 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 September 18 Shell reported that 70 percent of its service stations in the Houston - Beaumont area were now operating. Chevron reported that 60 percent of its affected stations in Texas were back in operation. ConocoPhillips reports that its retail outlets in southeast Texas are slowly being resupplied as electrical power is restored. Other oil companies are also reporting extraordinary efforts to resupply their branded stations.
- As of 9:00 AM EDT September 19, ten refineries in Texas and Louisiana, with a total operable capacity of 2.4 million b/d, remain shut down due to Hurricane Ike. ExxonMobil reported that it initiated restart procedures at its Baytown refinery on September 18. Calcasieu reported on September 18 that it restarted its Lake Charles earlier in the week and was operating at reduced runs. On September 18 at 6:45 PM, ExxonMobil reported that storm water has receded and clean-up crews are onsite at its Beaumont complex to repair water damage. (See table below.)



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Refineries in the Path of Gustav / Ike as of 9/19/08 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>638,000</b>	<b>1,046,163</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>0</b>	<b>0</b>	<b>746,900</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>1,196,820</b>	<b>1,143,800</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>93,000</b>	<b>586,126</b>
<b>TOTAL</b>			<b>7,503,309</b>	<b>2,351,320</b>	<b>1,625,800</b>	<b>1,477,900</b>	<b>1,962,289</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.

- As of 5:00 PM EDT September 18, the Sabine Pipeline reports that additional points along its system are accepting gas flow. In addition, partial compression has been restored at the Henry Hub complex; however, Sabine Pipeline will be closely monitoring its system if compression exceeds the pipelines capabilities.



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- Enbridge Pipelines, which owns and operates UTOS, Garden Banks, Manta Ray, Mississippi Canyon, Nautilus, and Stingray, remain shut-in. Inspections continue and more thorough damage assessments will take place over the next few days. Enbridge expects the Mississippi Canyon pipeline will return to service on Sunday, September 21 and the Manta Ray and Nautilus pipelines are expected to return on Friday, September 26. There is no estimate of return to service for the other pipelines at this time.
- As of September 18, Sea Robin Pipeline Co. reports that the Sea Robin processing plant in Vermilion Parish, LA is currently repairing equipment at the facility and will be ready to accept gas; however, processing will not be available until September 24 due to planned maintenance.
- There are 39 major natural gas processing plants in the path of Hurricane Ike with a total operating capacity of 17.7 billion cubic feet per day (Bcf/d).<sup>1</sup> As of 8:00 AM EDT, September 19, the Energy Information Administration (EIA) has confirmed that 9 plants remain shut down which includes those plants still impacted from Gustav, totaling an operating capacity of 5.23 Bcf/d (approximately 30 percent of the capacity in Hurricane Ike's path). In addition, EIA reports that 19 plants have resumed operations at reduced or normal levels totaling 7.20 Bcf/d operating capacity and 10 plants are capable to restart totaling 5.03 Bcf/d operating capacity once power is restored and/or upstream gas flow commences.

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<sup>1</sup> The Waskom processing plant operating capacity is 270 MMcf/d and not 150 MMcf/d as reported earlier.



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<b>Force Majeure / Critical Notice Posting by Natural Gas Pipelines as of 9/19/08 9:00 AM EDT</b>		
<b>Pipeline Name</b>	<b>Time Stamp</b>	<b>Notice (Status)</b>
ANR Pipeline Co.	9/18/08	ANR Southeast Area locations can now resume gas flow but not accepting liquids from these points.
Chandeleur Pipeline Co.	9/16/08	Operationally Scheduled Volumes indicates pipeline is flowing at 75% of pre hurricane levels.
Columbia Gulf Transmission	9/14/08	Flow from offshore points has been reduced to approximately 25% of normal operating capacity.
Destin Pipeline Co.	9/18/08	Pascagoula processing plant Force Majeure declared Sept. 15 now lifted and flows will resume to normal.
Discovery Gas Transmission	9/17/08	Offshore receipts remain unavailable pending assessments; some onshore receipt & delivery pts accepting gas flow at reduced levels.
Enbridge (UTOS)	9/18/08	All UTOS facilities remain under Force Majeure and are currently down and all points are shut-in. Damage assessments are still underway.
Garden Banks Gas Pipeline	9/18/08	Crews on site continuing damage assessment – minor damage visible. There is power generation but communication equipment is not functional. No estimate available on return to service at this time.
High Island Offshore System	9/18/08	Force Majeure from Sept 10 remains in effect - HIOS is currently securing equipment to locate a potential leak on its 42-inch line north of HIA-264. The equipment is expected to be on location in three (3) days.
KinderMorgan (Texas & Tejas)	9/17/08	Force Majeures remains in effect from Friday, Sept 12 All firm storage customers can resume injections at 50% of their firm injection rights until further notice
Manta Ray Offshore Gathering	9/18/08	Assessments continue on offshore platforms and facilities and repairs have started. A crew will be sent to assess and close valve on subsea assembly of the Boxer lateral tie-in at EW947 platform. Partial service expected by Friday, Sept 26.
Mississippi Canyon Pipeline	9/17/08	West Delta 143 platform is unavailable for gas flow. Venice plant has experienced water damage and will be not accept gas. Alternate means to bypass plant to other processing plants and/or pipeline interconnects is being analyzed. Expected to be back in service by Sept 21.
Natural Gas Pipeline Co of America	9/18/08	Notified customers that some delivery points along the LA line are available to flow gas.
Nautilus Pipeline Co.	9/18/08	Assessments continue and reports of the Burns Point location on system are intact with minor repairs needed. Downstream processing and interconnecting pipelines report systems are ready once gas flow commences. Expected service by Friday, Sept 26.
Sabine Pipe Line (Henry Hub)	9/18/08	Force Majeure has been lifted for some additional points along the system. Partial compression has been restored at the Henry Hub complex and the pipeline is closely monitoring its system.
Sea Robin Pipeline Co.	9/17/08	Reduced flow due to damage, lack of processing and continued shut-in as inspections continue. Some offshore systems have experienced some damage that will limit a full return to service. Processing is unavailable but gas flow can commence if at higher heating value.
Southern Natural Gas Co.	9/18/08	Force Majeure declared Wednesday, Sept 17. – Damage at interconnect with Sabine (Henry Hub) resulting in reduced gas flow. Repairs expected to be completed in 3-5 days. Supply impact from storms has decreased to approximately 340 MMcf/d.
Stingray Pipeline Co.	9/18/08	Some onshore facilities (office building) sustained water damage; offshore facilities have minor damage and crews are working to repair visual damage and will perform further inspections in the coming days. Crews are being flown into onshore facilities due to the hazardous road conditions. System repairs could take up to 2 weeks.
Tennessee Gas Pipeline	9/17/08	Tennessee has confirmed leaks on its 36 inch and 26 inch mainlines on the East Leg of the Blue Water system, in Ship Shoal 156/157
Texas Eastern Transmission	9/17/08	TE estimates that producers have shut-in 400-500 MMcf/d of supply on its system due to Hurricane Ike.
Texas Gas Transmission	9/17/08	All systems on the pipeline are operational, but they are closely monitoring receipt points.
Transcontinental Gas Pipe Line	9/17/08	Emergency Gas Supply Procedures remain in effect for only receipts on Southwest, Central and Southeast, LA laterals of system. Central TX gathering system accepting gas flow today.
Trunkline Gas Pipeline	9/17/08	Houston office has reopened. Force Majeure declared Monday, Sept 15. Some offshore systems have experienced some damage that will limit a full return to service. Flooding at Centerville Compressor Station limiting gas flow to Henry Hub.
Venice Gathering System	9/18/08	Remains shut-in from the effects of Gustav. Processing plant will not be available until first week in October – gas flow will remain at zero until plant is fully operational.
Dauphin Island Gathering	9/16/08	Force Majeure lifted as Mobile Bay (Duke) processing plant completed maintenance. System will resume normal operations.
Black Marlin Pipeline	9/15/08	Force Majeure declared Friday, Sept 12. - No gas flow being accepted.
Gulf South Pipeline	9/18/08	Critical Period has been lifted as of gas day Sept 18.
Northern Natural	9/16/08	Scheduled gas flow through portions of the Matagorda Offshore Pipeline System.



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Natural Gas Processing Plants in the Path of Ike & Gustav as of 9/19/08 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 (M)	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 <sup>3</sup>	Matagorda, TX	G + I	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	-	270				270
<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.

<sup>3</sup> The Matagorda processing plants has been idle (mothballed) prior to Hurricane Gustav/Ike.

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



**Electricity Updates:**

**Texas:**

As of: 9/19/2008 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	293	84,696	0.3%
Entergy Texas	249,843	397,451	62.9%
CenterPoint	1,142,027	2,076,978	55.0%
ONCOR	11,932	179,442	6.6%
TX New Mexico Power Co	42,536	113,370	37.5%
All Cooperatives	83,118	462,645	18.0%
<b>TOTAL</b>	<b>1,529,749</b>	<b>3,314,582</b>	

Total utility customers are based on TXPUC outage 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 AM EDT September 19, there are 1,529,749 customers reported without power in Texas. Over 72,000 customers have had power restored since Ike Situation Report No. 10.

**Additional State Reports:**

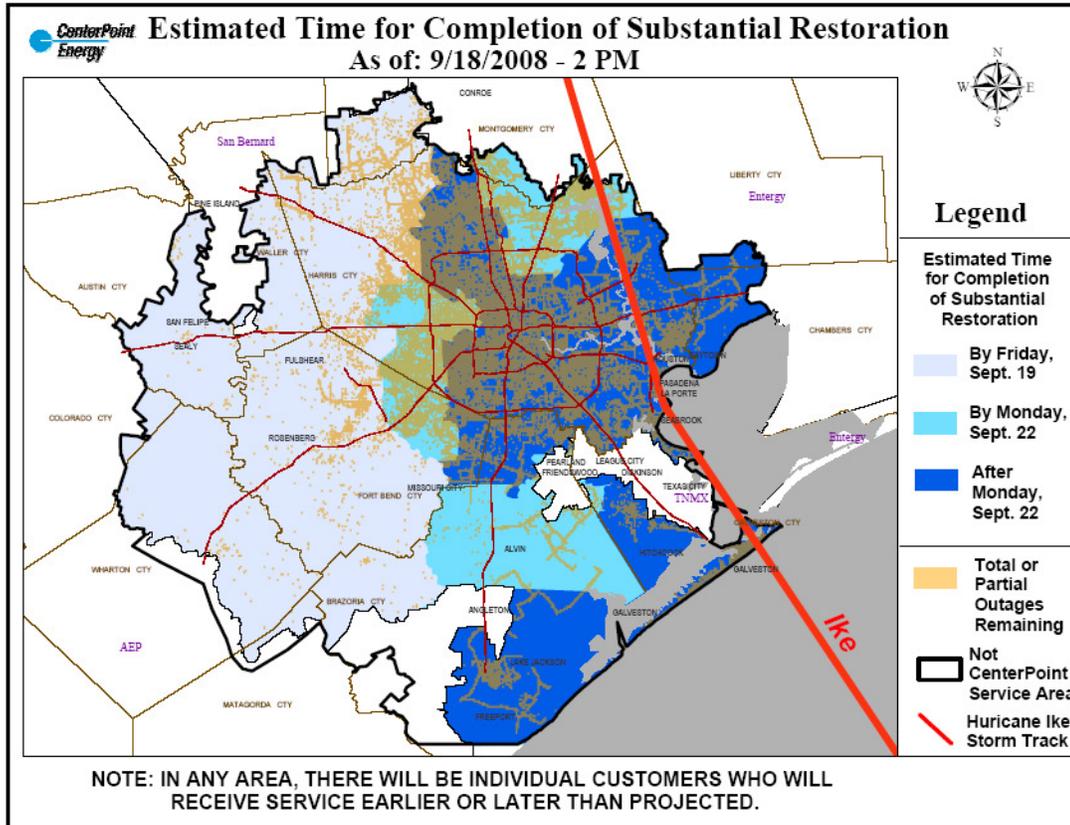
- In Louisiana, as of 6:00 AM EDT September 19, there are 15,696 customers without power. Over 1.4 million customers have had power restored following Gustav and Ike. Entergy reports that 6,308 of its remaining 7,834 outages are due to damage from Hurricane Gustav. CLECO reports that its remaining 504 outages suffered flood damage and will be reconnected after water recedes. Cooperative utilities have a combined 7,358 customer outages
- Ike caused major power outages in Arkansas and parts of the Midwest, Ohio Valley and Northeast. Remaining outages as of 8:00 AM EDT September 19 include:
  - Ohio – 323,700, 6 percent of total customers
  - Kentucky – 130,620 outages, 6 percent of total customers
  - Indiana – 25,715 outages, less than 1 percent of total customers
  - Pennsylvania – 5,930 outages, less than 1 percent of total customers
  - Arkansas – 27 outages, less than 1 percent of customers
  - Missouri – 130 outages, less than 1 percent of customers



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## Restoration Updates:

- CenterPoint has restored power to over 916,000 customers. CenterPoint estimates that 50-75 percent of customers will have power restored by September 23. CenterPoint has updated its restoration estimates as shown in the map below:



- CenterPoint reports that 8,000 mutual assistance crews plus 4,200 internal crews and contractors are involved in the restoration.
- Entergy reports 14,200 crews in Texas, Louisiana and Arkansas.
- Recent restoration updates from CenterPoint as of September 18 include:
  - 96 percent of transmission circuits and 93 percent of substation capacity are back in service
  - All but six substations are back in service; five of which are located on Galveston Island
  - After receiving Department of Energy approval, CenterPoint Energy established an emergency transmission connection to Entergy, which restored two substations, in order to restore power to a water treatment facility normally served by Entergy. This facility is critical to the water supply for the City of Houston.
  - 55 of 77 area hospitals
  - 122 of 245 sewer lifts
  - 73 of 111 water wells



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- ONCOR expects to have power fully restored by the end of the week.
- As of 1:00 PM EDT September 18, CenterPoint equipment outages include:
  - Distribution circuits - 820 or 55 percent
  - Transmission circuits – 7, or 2 percent
  - Power Transformers – 18, or 3 percent
  - Auto Transformers – 2, or 3 percent
- **As of 6:00 AM EDT September 19, Entergy reports transmission and distribution outages caused by Ike include:**
  - **113 of 237 transmission lines**
  - **138 of 378 substations**
  - 132 transmission structures destroyed, and 205 damaged
  - 6,426 poles
  - 2,664 transformers
  - 4,153 cross arms
  - 5,355 service connections damaged or destroyed, and
  - 9,368 spans of wire knocked down.
- **Entergy reports remaining Gustav damage in Louisiana includes 10 of 241 transmission lines and 6 of 354 substations out of service.**
- As of September 18, flood waters at Entergy's Sabine power plant have receded and safety assessment and environmental clean-up are underway.
- **In Texas, 16,806 customer outages remain inaccessible due to flooding.** 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- Taylor Landing, Bolivar Peninsula, and Sabine Pass
- In Louisiana, over 2,000 customer outages remain inaccessible due to flooding. Entergy restoration estimates by Parish are:
  - September 18 – Calcasieu, Jefferson (lower portion only, except Grand Isle), Plaquemines, St. Bernard
  - September 24 - Ascension (Donaldsonville), Iberville, St. Martin
  - September 27 - Terrebonne
  - October 1 - Jefferson (Grand Isle and Lafitte), Lafourche