



U.S. Department of Energy
Emergency Support Function 12

Hurricane Ike Situation Report # 20

September 29, 2008 (12:00 PM EDT)

http://www.oe.netl.doe.gov/emergency_sit_rpt.aspx

Summary

Electricity		
Impacted State	Electric Customer Outages	% of State Out
Texas	154,385	1%
TOTAL:	154,385	
Petroleum & Natural Gas		
	Amount	% Capacity Out*
Crude Oil Production Shut-In (b/d)	746,459	57.4%
Natural Gas Production Shut-in (mmcf/d)	3,909	52.8%
Refinery Capacity Shut down (b/d)	424,500	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 10:30 AM EDT September 29, there are 154,385 customers without power in Texas. Power has been restored to over 255,700 customers since Ike Situation Report No.19 on Friday. Outages in heavily impacted Texas counties as reported by the Texas PUC as of 8:30 AM EDT September 29 include:
 - Harris – 131,493
 - Galveston – 4,871
 - Brazoria – 1,819
- As of 8:00 AM EDT September 29, the port of Texas City is open to all daylight vessels and maintains night restrictions to vessels with drafts exceeding 16 feet. Freeport maintains night restrictions on vessels with drafts exceeding 30 feet. Part of the Gulf Intracoastal Waterway in TX has re-opened, but it is still closed from mile marker 350 to 319 and has some closures in LA as well. Nighttime transit above mile marker 190 on the Lower Mississippi River is still restricted to vessels with drafts of 30 feet or less. The Pascagoula, Channel in MS is still limiting vessels with drafts over 36 feet to occasional daylight transits.

ESF 12 Actions:

- ESF-12 has been demobilized from the FEMA National Response Coordination Center (NRCC) in Washington, DC.



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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)	746,459	1,300,000	57.4%
Natural Gas (MMCF/D)	3,909	7,400	52.8%

Source: Minerals Management Service

- As of September 26, the Minerals Management Service (MMS) reports 3.909 million cubic feet per day (MMcf/d) of the Gulf’s natural gas production remains shut-in, equivalent to 52.8 percent of the Gulf production. MMS reports 746,459 barrels/day of the Gulf’s crude production remains shut-in, equivalent to 57.4 percent of the Gulf’s crude production. A total of 145 production platforms, or 20.1 percent of the Gulf’s 694 manned platforms, remain evacuated. Personnel from 1 rig, representing 0.9 percent of the 116 operating in the region, remain evacuated.
- On September 26, the Louisiana’s Department of Natural Resources reports that 57,375 b/d or 37 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 70,476 b/d and the status of remaining 27,925 b/d is unknown. The estimated amount of restored gas production is 595 MMcf/d or 36 percent of the daily gas production capacity, which is 1,642 MMcf/d. The estimated amount of shut-in gas production is 745 MMcf/d; the status of the remaining 302 MMcf/d has not been confirmed.
- On September 27, DOE announced that it is delivering 500,000 barrels of emergency exchange oil to Marathon’s Midwest refineries via the Capline.
- As of 10:00 AM EDT September 29, a number of pipelines have returned to normal operations, including TEPPCO, Dixie, and Enterprise. Longhorn reported that it has resumed operations after the September 23 fire at Kinder Morgan's Pasadena, TX oil storage terminal. See table below for pipeline status.



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Pipelines in the Path of Gustav / Ike as of 9/29/08 10:00 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/refine	TX, MS, AL	TX, MS, AL	NA	NA			
Crude	Marathon gathering	GOM	LA/TX	NA	NA			
Crude	Sunoco Logistics/Wester	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

- Two refineries remain shut down as of 10 AM EDT September 29 in the Port Arthur and Texas City areas, with a total operable capacity of 0.4 million b/d. Total reported on September 26 that its Port Arthur refinery has restarted. Valero reported on September 29 that it's Texas City and Three Rivers refineries have returned to normal operations. See table below for status of refineries.



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Refineries in the Path of Gustav / Ike as of 9/29/08 10:00 AM EDT							
Refinery Impacted	Location	Storm	Capacity (B/D)				
			Operating	Shut Down	Restarting	Reduced Runs	Back to Normal
Pascagoula/Mobile Region							
Chevron	Pascagoula, MS	G	330,000				330,000
Shell	Saraland, AL	-	86,000				
Pascagoula/Mobile Total			416,000	0	0	0	330,000
Lower Mississippi River Region							
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
Lower Mississippi River Total			2,166,163	0	0	80,000	2,086,163
Lake Charles Region							
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	
Lake Charles Total			746,900	0	0	746,900	0
Port Arthur Region							
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		
Port Arthur Total			1,154,500	348,500	521,000	285,000	
Houston/Galveston Region							
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
Houston/Galveston Total			2,340,620	76,000	650,720	1,084,600	529,300
Corpus Christi Region							
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
Corpus Christi Total			679,126	0	0	0	679,126
TOTAL			7,503,309	424,500	1,171,720	2,196,500	3,624,589

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 10:30 AM EDT September 29, seven major natural gas pipelines in the Gulf Coast area continue to report complete shut-in of their systems. Four of the seven pipelines have notified their customers that the pipeline is ready to return to service; however, due to continued assessments of damage to interconnecting facilities and/or lack of upstream gas flow, these pipelines remain shut-in. The other 3 pipelines have reported that the repairs to the damaged facilities are ongoing and the integrity of the line is being verified. See table below.



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- As of September 26, Discovery Gas Transmission (DGT) reports that the repairs to its 30-inch diameter mainline may take over 60 days to complete. This schedule does not include the reattachment of DGT's 18-inch diameter gathering line that was severed during Hurricane Ike. The repair schedule for the 18-inch diameter line is still being finalized. All offshore deliveries at this time remain shut-in; however, all receipt and delivery points onshore will continue to accept gas flow.
- As of September 26, Venice Gathering System notified its customers that the Venice processing plant in Plaquemines, LA will lift its Force Majeure on a point by point basis and is expected to start up operations this week.
- As of 7:15 PM EDT September 25, Tennessee Gas Pipeline reports that many points upstream of the Grand Chenier II processing plant which is located in Cameron Parish, LA are authorized to flow gas. The plant is currently reported to be operating at reduced level.
- 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). As of 10:30 AM EDT September 29, the Energy Information Administration (EIA) has confirmed that 6 plants remain shut down which includes those plants still impacted from Gustav, totaling an operating capacity of 3.38 Bcf/d (19 percent of the capacity in Hurricane Ike's path). In addition, EIA reports 27 plants have resumed operations at reduced or normal levels with a total operating capacity of 10.42 Bcf/d. Five plants report that they are capable to restart (totaling 3.66 Bcf/d operating capacity) once power is restored and/or upstream gas flow are sufficient. See table below



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Force Majeure / Critical Notice Posting by Natural Gas Pipelines as of 9/29/08 10:00 AM EDT

Pipeline Name	Time Stamp	Notice (Status)
ANR Pipeline Co.	9/26/08	ANR's Southeast Area operation conditions are improving resulting in additional points and services being cleared to flow gas. The Cameron Meadows lateral segment remains shut-in. Inspections continue on both offshore and onshore facilities.
Chandeleur Pipeline Co.	9/29/08	Operationally Scheduled Volumes indicates pipeline is flowing at over 85% of pre hurricane levels.
Columbia Gulf Transmission	9/29/08	Flow from offshore points has been reduced to approximately 64% 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	9/26/08	Updated customers on time frame of schedule to repair 30" mainline that could take up to 60+ days - Damage to offshore system that will prevent the receipt of all offshore gas. The damage has occurred on the 18' ST 200 lateral, which has been torn away from the 30" mainline at ST 231. Onshore delivery & receipt points will continue to accept flow.
Enbridge (UTOS)	9/25/08	All UTOS facilities remain under Force Majeure and are currently down and all points are shut-in. Crews are currently at the UTOS Station 44 clearing mud and debris and are assessing the damage. There is no time frame for restoration of service at this time.
Garden Banks Gas Pipeline	9/25/08	Garden Banks' pipeline facilities are essentially ready for return to service; however, the pipeline remains shut-in because there is no current availability of downstream outlets for condensate, which includes interconnects with ANR, Tennessee, Transco, and Sea Robin all of which are unavailable.
High Island Offshore System	9/26/08	Force Majeure from Sept 10 remains in effect - 42-inch diameter line on system has been severed and HIOS has the repair tools & pipe available to replace the damage section. A dive vessel expected to be onsite in 5 days. 3 points along a lateral not impacted can flow gas but all other offshore points remain shut-in. Currently only one of the four delivery point is available on the system which is the interconnection with ANR Pipeline.
KinderMorgan (Texas & Tejas)	9/20/08	All firm storage customers can resume injections at 100% of their firm injection rights. There is no interruptible space available at this time.
Manta Ray Offshore Gathering	9/24/08	Force Majeure is lifted as of Sept 24. Gas flow is available for delivery to Nautilus Pipeline but all other delivery points (ANR, Transco, & Trunkline) remain unavailable at this time. Only portion of receipts offshore can flow gas at this time.
Mississippi Canyon Pipeline	9/26/08	Force Majeure is lifted; however, no flow has commenced at this time. Pipeline notified customers that two delivery points can accept gas flow and one point remains unavailable.
Natural Gas Pipeline Co of America	9/24/08	Power has been restored to Compressor Station 343 and the leaks discovered on the LA line have been repaired and is now in service. Force Majeure still in effect for Station 342 and Station 302.
Nautilus Pipeline Co.	9/24/08	Force Majeure has been lifted as of Sept 24. Deliveries to Louisiana Intrastate Gas & Gulf South are available. As gas flow increases to processing plant the other delivery points will be available in order to meet gas quality requirements at these points.
Sabine Pipe Line (Henry Hub)	9/22/08	Force Majeure has been lifted for some additional points along the system. Henry Hub continues to operate on partial compression and the pipeline is closely monitoring its system.
Sea Robin Pipeline Co.	9/24/08	Sea Robin commenced flow on Sept 22 at reduced levels. The Hess Processing Plant has completed repairs to its equipment but continues to operate at a minimum volume of 250 MMcf/d.
Southern Natural Gas Co.	9/24/08	Southern has issued its final update. Six receipt points remain shut-in totaling 62 MMcf/d. The restart of these points is dependent on third parties repairing damage and it is unknown when these points will return.
Stingray Pipeline Co.	9/25/08	Force Majeure remains in effect and all receipt points remain shut-in. Crews are onsite and assessing damage and conducting integrity checks. No time frame for restoration of service at this time.
Tennessee Gas Pipeline	9/26/08	All points upstream of the Grand Chenier gas processing plant are cleared to commence gas flow. The East Leg of the Bluewater System can commence gas flow. Repairs to Compressor Station 847 (Grenada, MS) are complete and station is at full operations.
Texas Eastern Transmission	9/29/08	Investigations of pipeline's facilities are complete and have returned to operations. TE has restrictions on gas flow at delivery and receipt points along portions of the South TX and East TX zones.
Texas Gas Transmission	9/17/08	All systems on the pipeline are operational, but they are closely monitoring receipt points.
Transcontinental Gas Pipe Line	9/23/08	Further inspections are needed for the Southeast LA lateral resulting in shut-in gas flow from multiple points along this segment. Pipeline estimates that 575 MMcf/d remains shut-in due to Ike.
Trunkline Gas Pipeline	9/24/08	The Kaplan Compressor Station has one unit now available to flow gas raising the capacity to the Henry Hub. 30 receipt points have been cleared for flow.
Venice Gathering System	9/26/08	Remains shut-in from the effects of Gustav. Venice Processing plant has informed pipeline that the plant's Force Majeure has been lifted; however, plant start up is not expected until Monday, Sept 29. The Force Majeure will stay in effect, but will be lifted on a point by point basis.
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	9/22/08	Matagorda Offshore Pipeline System accepting gas flow at normal levels.



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Situation Report

Natural Gas Processing Plants in the Path of Ike & Gustav as of 9/29/08 10:30 AM EDT

Plant Name	Location	Impact	Capacity (million cubic feet per day) ¹				
			Design System Operation	Shut Down	Capable to Restart ²	Operating at Reduced Level	Normal
EAST LA / AL							
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
WEST LA / EAST TX							
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
CENTRAL EAST TX							
Houston Central	Colorado, TX	-	700				700
Markham	Matagorda, TX	G + I	300		300		
Matagorda ³	Matagorda, TX	G + I	250	-	-	-	-
Armstrong	De Witt, TX	I	250				250
Point Comfort	Calhoun, TX	I (M)	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
SOUTH EAST TX							
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.

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

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

³ The Matagorda processing plant has been idle (mothballed) prior to Hurricane Gustav/Ike.

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



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Electricity Updates:

Texas:

As of: 9/29/2008 10:30 AM EDT



Electricity Outages: Utility Detail			
Texas			
Utility	Outages	Total Utility	% w/o Power
CenterPoint	144,902	2,076,978	7.0%
All Cooperatives	9,483	462,645	2.0%
TOTAL	154,385	2,539,623	

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 10:30 AM EDT September 29, there are 154,385 customers without power in Texas. Over 255,700 customers had power restored since Ike Situation Report No. 19.

Restoration Updates:

- As of 9:00 AM EDT September 29, CenterPoint has restored power to over 1.99 million customers of the 2.1 million that lost power due to Ike. CenterPoint estimates that the majority of customers should have power resorted by September 29.
- CenterPoint reports that 11,000 mutual assistance crews plus 4,200 internal crews and contractors are involved in the restoration.
- Restoration updates from CenterPoint include:
 - 100% of transmission circuits are restored.
 - 100% of substation capacity is in service.