



U.S. DEPARTMENT OF ENERGY

OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY

DOE's Response to the Gulf Coast Hurricanes



INFRASTRUCTURE SECURITY AND ENERGY RESTORATION

Kevin Kolevar

Office of Electricity Delivery and Energy Reliability

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Hurricane Chronology and DOE Response

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Chronology	Hurricane Katrina	Hurricane Rita
Hurricane Landfalls	8/25/05 Cat 1 in FL 8/29/05 Cat 4 in LA	9/20/05 Cat 1 passed FL 9/24/05 Cat 4 in TX
States of Emergency Declared		45 states
Alabama	8/28/2005	
Louisiana	8/26/2005	9/20/2005
Mississippi	8/27/2005	
Texas		9/24/2005
Federally Declared Disasters	AL, FL, LA, MS	LA, TX

DOE responds to both hurricanes

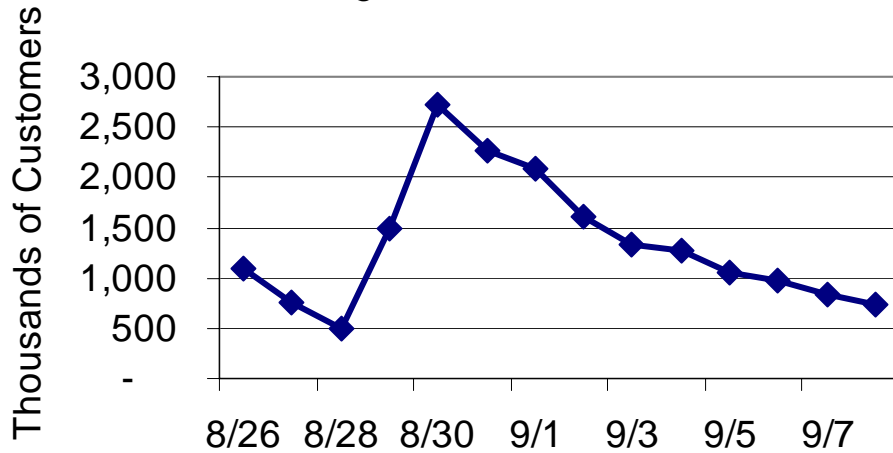
- Staff deploy throughout Gulf region
- Work with EPA to issue gasoline and diesel fuel waivers nationwide
- Work with DOT to issue waivers on truck driver hours
- Work with DHS to waive Jones Act restrictions on tankers
- Make loans of US SPR crude and obtain IEA supplies
- Facilitate delivery of fuel supplies to first responders
- Assist with coordination of electricity supply into damaged areas



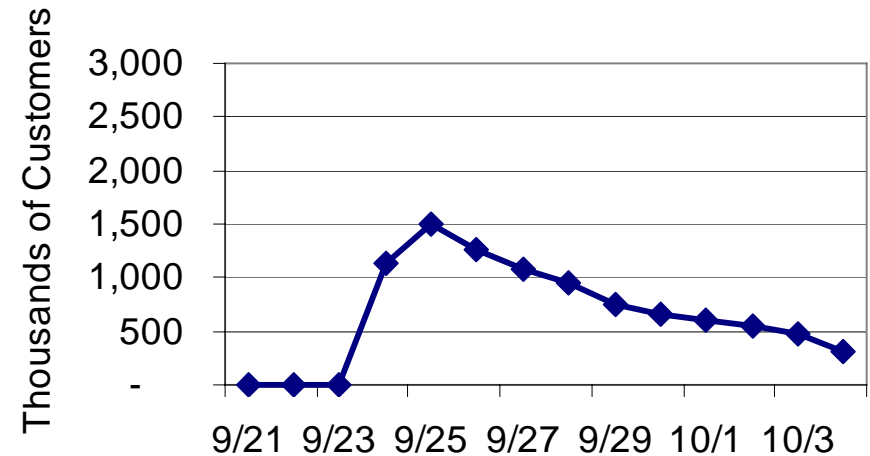
Electricity Outages Caused by Gulf Coast Hurricanes

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Electric Outages from Hurricane Katrina



Electric Outages from Hurricane Rita



Worst Day Outages (8/30/05 8:30 AM)

State	Thousands w/o Power	% Customers w/o Power
Alabama	752	38%
Florida	234	3%
Louisiana	881	47%
Mississippi	855	71%
Total	2,723	21%

Worst Day Outages (9/25/05 3:00 PM)

State	Thousands w/o Power	% Customers w/o Power
Arkansas	30	2%
Louisiana	690	37%
Mississippi	13	1%
Texas	775	9%
Total	1,508	12%

Sources: State Emergency Operations Centers.



Louisiana – Highway 23

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Oil & Gas Outages Caused by Gulf Coast Hurricanes

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Oil & Gas Production & Refining	Pre-Katrina Production	Worst Day Outages		Yesterday's Outages
		Katrina	Rita	
	8/24/2005	8/30/2005	9/25/2005	10/11/2005
Crude Oil Production				
Million Barrels per Day	1.5	1.4	1.5	1.06
% of Gulf Production	100%	93%	100%	71%
% of U.S. Production	29%	27%	29%	20%
Natural Gas Production				
Billion Cubic Feet per Day	10	8.8	8.05	6.04
% of Gulf Production	100%	88%	81%	60%
% of U.S. Production	19%	17%	15%	11%
Refining				
Gulf refineries (number)	46	11	19	7
Million Barrels per Day	7.9	2.5	4.9	1.86
% of Gulf Capacity	100%	32%	62%	24%
% of U.S. Capacity	46%	15%	29%	11%
Petroleum Pipelines				
Crude Pipelines Shutdown	None	LOOP; Capline	LOOP; Sun; Seaway; TEPPCO	
Crude Pipelines Reduced	None		Capline	Capline; Sun
Product Pipelines Shutdown	None	Colonial; Plantation; Dixie	Explorer; TEPPCO; Longhorn; Dixie	
Product Pipelines Reduced	None		Colonial	Explorer; TEPPCO

Sources: EIA, MMS, and DOE Hurricane Situation Reports.



Looking Forward

INFRASTRUCTURE SECURITY AND ENERGY RESTORATION

DOE's plans for the near to mid-term:

- Provide electricity suppliers with access to DOE R&D capability to facilitate transmission response and restoration efforts
- Work with NARUC to assess natural gas curtailment plans in each state before winter heating season starts
- Work with NASEO to implement State Energy Assurance and Preparedness Guidelines to States
- Collaborate with various government agencies on long-term restoration and recovery
- Continue to closely monitor energy situations with conference calls with state and industry officials
- Examine the lessons learned for the energy sector