

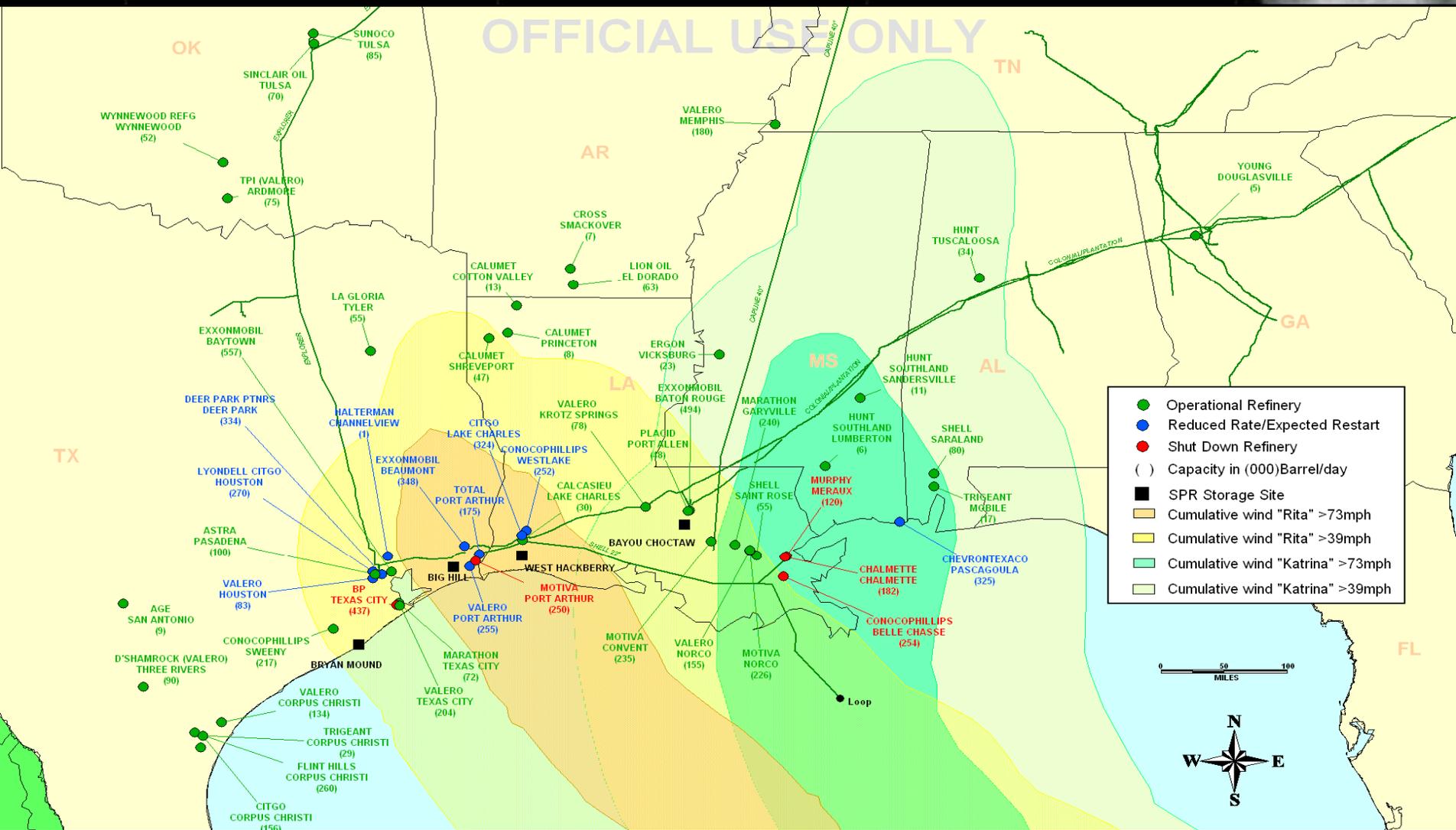
The background of the slide is a composite of several satellite images of hurricanes. The most prominent feature is a large, well-defined hurricane eye in the lower right quadrant, surrounded by dense, swirling cloud bands. Other smaller, less distinct storm systems are visible in the upper and left portions of the frame. The entire image is overlaid with a white grid pattern.

U.S. Department of Energy's Response to Gulf Coast Hurricanes

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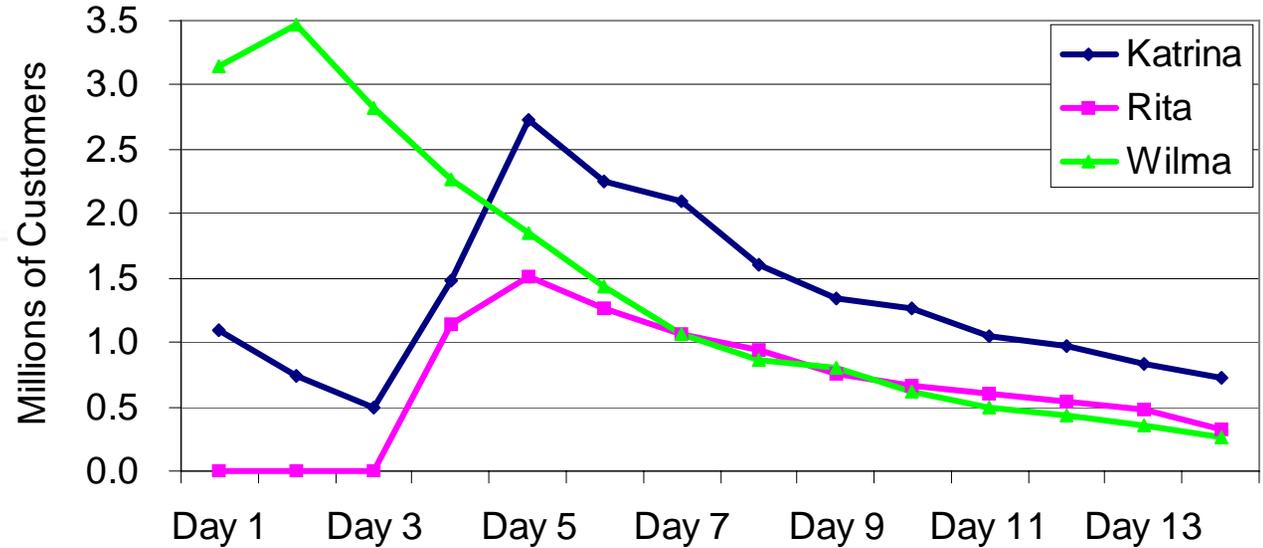
Gulf Coast Refineries in Path of Hurricanes



Electricity Outages Caused by Gulf Coast Hurricanes



Sources: State Emergency Operations Centers.
Photo: AP / Taylor Jones.



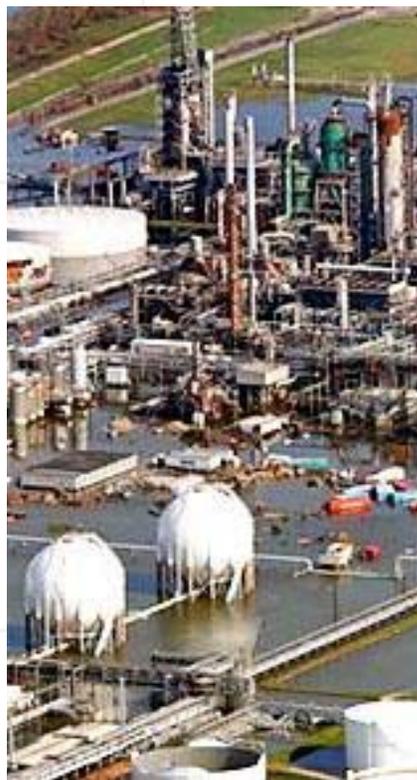
State	Million Residential Customers	Worst Day Outages by Hurricane		
		Katrina 8/30/05	Rita 9/25/05	Wilma 10/25/05
Alabama	2.0	0.8		
Arkansas	1.2		-	
Florida	7.7	0.2		3.5
Louisiana	1.9	0.8	0.7	
Mississippi	1.2	0.9	-	
Texas	8.5		0.8	
Total	22.5	2.7	1.5	3.5

Hurricane Impacts to Offshore Infrastructure & Access Roads



Sources: U.S. Coast Guard, DHV International, AP, and PennWell.

Oil & Gas Outages Caused by Gulf Coast Hurricanes



Oil & Gas Production & Refining	Pre-Katrina Production	Worst Day Outages		Latest Outages
		Katrina	Rita	
	8/24/2005	8/30/2005	9/25/2005	1/26/2006
Crude Oil Production				
Million Barrels per Day	1.5	1.4	1.5	0.4
% of Gulf Production	100%	93%	100%	25%
% of U.S. Production	29%	27%	29%	8%
Natural Gas Production				
Billion Cubic Feet per Day	10	8.8	8.05	1.3
% of Gulf Production	100%	88%	81%	13%
% of U.S. Production	19%	17%	15%	3%
Refining				
Gulf refineries (number)	46	11	20	2
Million Barrels per Day	7.9	2.5	4.9	0.6
% of Gulf Capacity	100%	32%	62%	7%
% of U.S. Capacity	46%	15%	29%	3%
Petroleum Pipelines				
Crude Pipelines Shutdown	None	LOOP; Capline	LOOP; Sun; Seaway; TEPPCO	None
Crude Pipelines Reduced	None		Capline	None
Product Pipelines Shutdown	None	Colonial; Plantation; Dixie	Explorer; TEPPCO; Longhorn; Dixie	None
Product Pipelines Reduced	None		Colonial	None

Sources: EIA, MMS, and DOE Hurricane Situation Reports

Photos: MSNBC and IllinoisPhoto

DOE Response to Gulf Coast Hurricanes



- ▣ Deploy staff throughout Gulf region
- ▣ Work with Environmental Protection Agency to issue gasoline and diesel fuel waivers nationwide
- ▣ Work with Department of Transportation to issue waivers on truck driver hours
- ▣ Work with Department of Homeland Security to waive Jones Act restrictions on tankers
- ▣ Make loans of U.S. Strategic Petroleum Reserve crude and obtain International Energy Agency supplies
- ▣ Facilitate delivery of fuel supplies to first responders
- ▣ Assist with coordination of electricity supply into damaged areas
- ▣ Monitor developments and issue authoritative Situation Reports
- ▣ Assess potential infrastructure impacts before landfall of each hurricane

Looking Forward



Plans for near and long-term recovery:

- ▣ Provide electricity suppliers with access to DOE R&D capability to facilitate transmission response and restoration efforts
- ▣ Work with States to assess natural gas curtailment plans for winter heating season
- ▣ Work with States 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 State and industry officials
- ▣ Examine the lessons learned for the energy sector
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