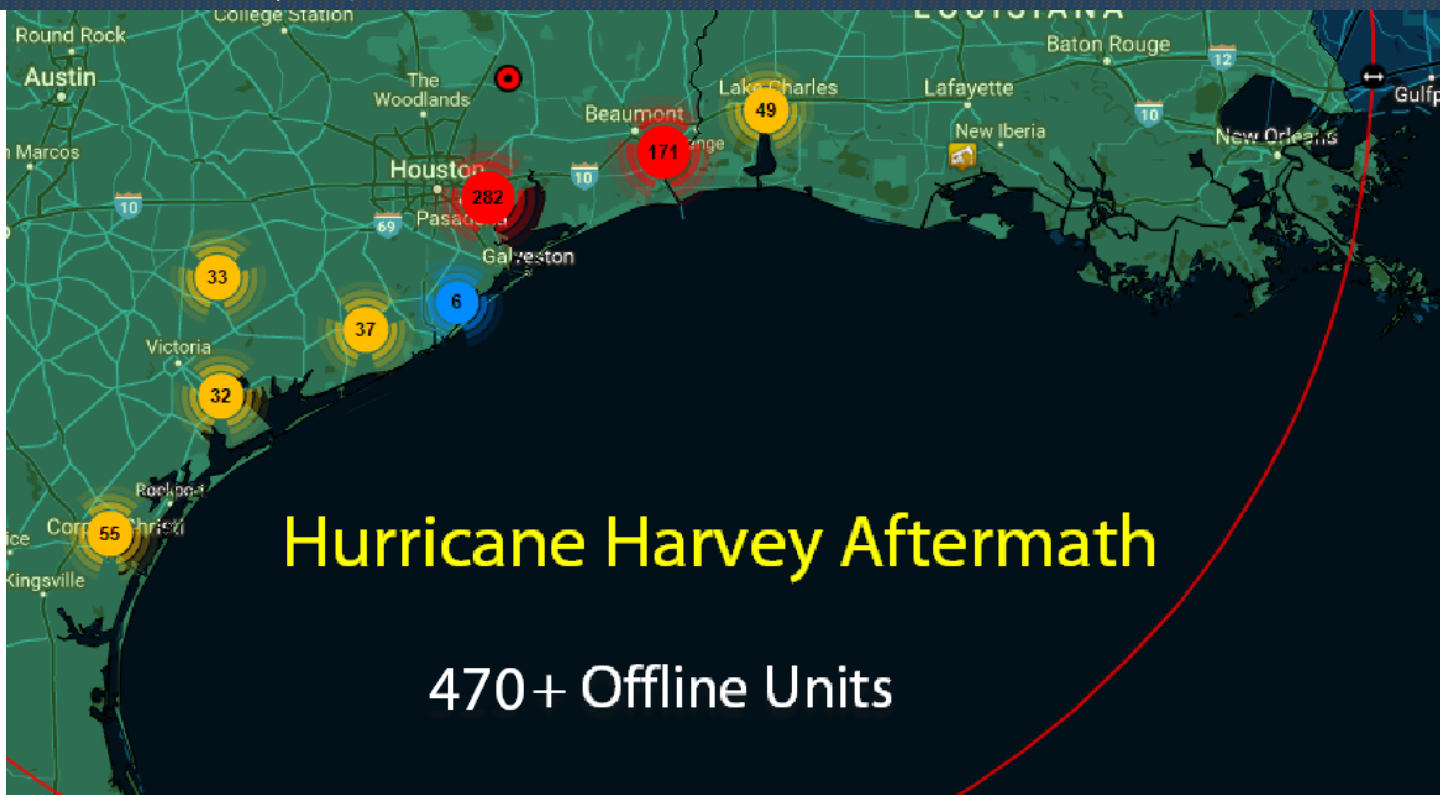




* POTENTIAL IMPACT IS CALCULATED USING [TX ZONES 5, 7 & 10 AND LA ZONE 6](#)



Refining Market Impact Analysis

Summary Description	Plant Count	Crude Capacity
Potential Impact *	27	5,504 kbd
Actual Impact	5	1,720 kbd
% of Capacity Offline		31%
% of Capacity Online		69%



Ethylene Market Impact Analysis

Summary Description	Plant Count	Ethylene Capacity
Potential Impact *	31	47,726 M lbs/yr
Actual Impact	9	16,780 M lbs/yr
% of Capacity Offline		35%
% of Capacity Online		65%



Power Market Impact Analysis

Summary Description	Plant Count	Power Capacity
Potential Impact *	57	35,896 MW
Actual Impact	0	0 MW
% of Capacity Offline		0%
% of Capacity Online		100%



Gas Market Impact Analysis

Summary Description	Plant Count	Gas Processing (MMSCFD)	Fractionation (KBD)
Potential Impact *	56	12,122	3,693
Actual Impact	11	2,420	1,184
% of Capacity Offline		20%	32%
% of Capacity Online		80%	68%





Click links to access detailed results related to the impact of Hurricane Harvey.



Refining Saved Searches

[Potentially Impacted Refining Plants](#)

[Crude Offline Events](#)

[Cat Cracker Offline Events](#)



PetChem Saved Searches

[Potentially Impacted PetChem Plants](#)

[Ethylene & PDH Offline Events](#)

[Other Priority PetChem Offline Events](#)



Power Saved Searches

[Potential Power Plant Impact](#)

[Power Offline Events](#)



Oil & Gas Saved Searches

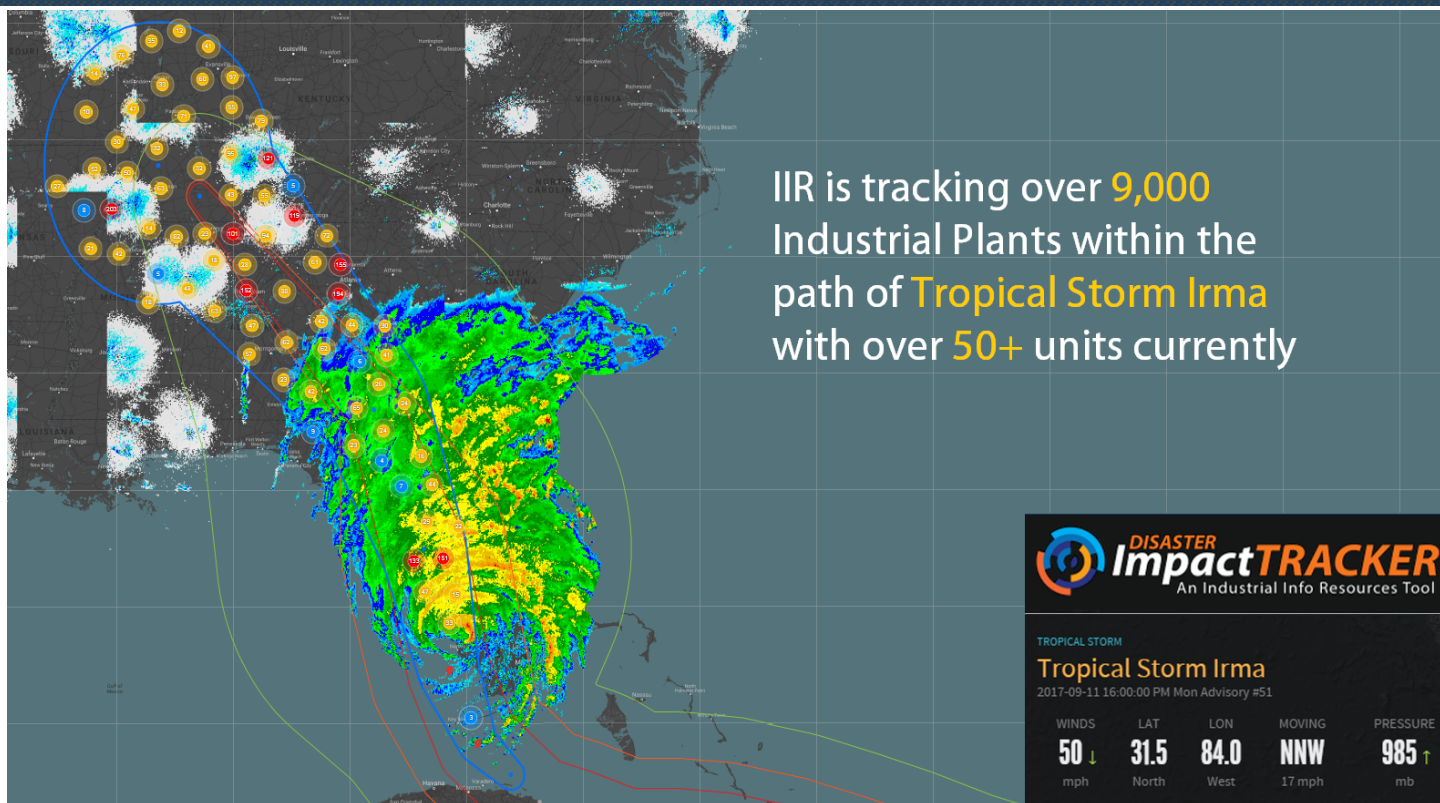
[Potentially Impacted Gas Plants](#)

[Potentially Impacted Gas Units](#)

[Gas Processing Offline Events](#)

[Fractionation Offline Events](#)





✳ POTENTIAL IMPACT IS CALCULATED USING [IIR'S DISASTER IMPACT MAP](#)



Refining Market Impact Analysis

Summary Description	Plant Count	Crude Capacity
Potential Impact ✳	6	499,500 Bbl/d
Actual Impact	0	0 Bbl/d
% of Capacity Offline		0%
% of Capacity Online		100%



Ethylene Market Impact Analysis

Summary Description	Plant Count	Ethylene Capacity
Potential Impact ✳	0	0 M lbs/yr
Actual Impact	0	0 M lbs/yr
% of Capacity Offline		0%
% of Capacity Online		100%



Power Market Impact Analysis

Summary Description	Plant Count	Power Capacity
Potential Impact ✳	610	79,260 MW
Actual Impact	8	13,966 MW
% of Capacity Offline		18% ↑
% of Capacity Online		82%



Oil & Gas Market Impact Analysis

Summary Description	Plant Count	Gas Processing (MMSCFD)	Fractionation (bbl/d)
Potential Impact ✳	3	66	107
Actual Impact	0	0	0
% of Capacity Offline		0%	0%
% of Capacity Online		100%	100%





Power

[Potential Power Plants Saved Search](#)

Hurricane Irma caused damage to electrical infrastructure to leave 5.8 million customers without power. Much of the damage is to the transmission and distribution system with one Florida Power & Light official predicting in a Tweet that “a wholesale rebuild” of the electrical grid on the Florida Coast will possibly be the longest restoration in US history. On the generation side IIR Energy is tracking over 7.4-Gigawatts in ongoing unscheduled outage activity. Plants on the list include Marathon, Riviera Beach, Sanford, Turkey Point and others. Damage assessments are ongoing to reveal the full scope of work needed to restore plants and other infrastructure.



Industrial Manufacturing

[Potential Industrial Manufacturing Plants Saved Search](#)

With the worst of Irma having past, all manufacturing, rail, ports and airports in Florida remain closed. Airport operations will begin very limited operations early on Tuesday. Over half the state is without power and flooding concerns will hamper efforts at damage assessment, repair and cleanup for several days. Given that some portions of the state may not have power restored for weeks, it will be difficult for full manufacturing to resume.



Pharma

[Potential Pharma Plants Saved Search](#)

With Irma now downgraded to a tropical storm, the focus will turn to damage assessment as flood waters recede, power is restored and roads open again. Only then will the true effect Hurricane Irma on the pharmaceutical industry be known. Many drug manufacturing plants and laboratories have emergency generators for plant safety although this is not sufficient long term for operations.



Oil & Gas

[Potential Oil & Gas Plants Saved Search](#)

Preparations to the natural gas pipeline network were made in advance of Hurricane Irma making landfall by testing generators and satellite communications thus allowing the compressor stations to be operated remotely. Demand is expected to be weak while power generators reinstate the electrical grid system.



Food & Beverage

[Potential Food & Beverage Plants Saved Search](#)

The Food and Beverage plants in the path of Irma reflect the entire cross-section of the industry's sectors from meat and poultry to agribusiness and beverages, among others. Florida's citrus processing industry and large sugar cane processing plants are at risk of damage. There are numerous large distribution facilities in the current storm path that serve regional and export markets that are likely to experience operational disruptions.



Pulp & Paper

[Potential Pulp & Paper Plants Saved Search](#)

There are ten pulp and paper mills currently in Irma's trajectory. A handful of them are among the largest in the country with respect to their output of products, including cellulosic fibers, tissue and towel grades as well as linerboard. In addition to pulp and paper products, seven of these mills generate electricity from more than two dozen generating units with an aggregate of approximately 512 megawatts.

