

GARRETMCKENZIE^{INC}

HURRICANE SEASON POWER OUTAGES

A CASE STUDY



Hurricane seasons demonstrate the vulnerability of losing power and the stressful impact to infrastructures, communities, and individuals from the power outages.

During Hurricane Ida in August 2021, there was a significant need for temporary power throughout Louisiana leading up to the east coast. Power infrastructures were compromised from hurricane force winds damaging power lines and transformers.

Over 1.1 million power outages occurred at the peak, of those 922,000 outages alone were in Louisiana with only 14% restored by the 5th day as per the information provided on the U.S. Department of Energy website.

The complexity of no power or shortage of power expanded every type of industry in Louisiana; medical centers, retirement communities, banks, grocery stores, gas stations, schools, government facilities, hotels, retail centers, and places of worship. These businesses were vitally impacted from the power outages resulting in lack of care, shelter, water, groceries, fuel, security, and important comfort and relief elements.

According to **WAFB Channel 9**, restoring power can take weeks. Energy provider **DEMCO** advises its members to *“make plans now for their health, safety, and comfort”* as they begin the *“weeks-long process”* of bringing power back up to its members. Restoration efforts made by utility and electricity companies do not have a definite schedule as of the moment, considering the swath of destruction caused by Hurricane Ida. As **DEMCO** says, the current repair work is *“as-they-go fixes.”*

Reference: *itechpost*



One thing all disasters have in common is the need for portable power: not only generators, but the portable power distribution hardware to deliver the power safely and efficiently to the end use location. Garrett McKenzie's extensive fleet of generators ranging from **36kw to 2MW** and power distribution were mobilized all throughout Louisiana supplying temporary power and other relevant equipment. Our temporary chillers and air conditioning units brought relief from the high temperature, humidity and lack of cooling systems.

While everyone was rushing around after the hurricane for temporary generators, we were able to reach out to our clientele with equipment options, mobilization arrangements and setting up equipment before the hurricane landfall.



560kW Generator: *Paralleling generators for load management expandability*

Temporary power sourcing is critical and a necessity for business operations. **Our technical specialists are available to deliver equipment nationwide, setup and monitor the equipment for optimal performance.**

ELECTRICITY SECTOR

POWER OUTAGES

As of 7:00 AM EDT on Sept 2, there are approximately 922,000 customer outages remaining in Louisiana due to Ida, with approximately 36,000 outages remaining in Mississippi. There are approximately 230,000 additional outages in the Northeast after remnants of Ida passed over the region.

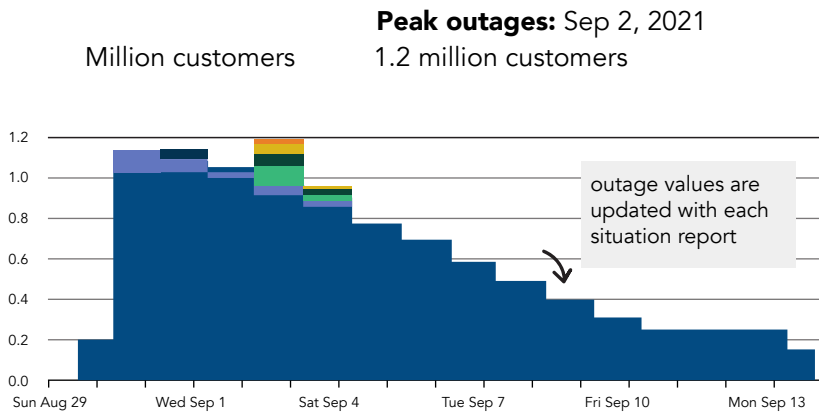
Customer Power Outages as of 7:00AM EDT 09/02/2021

STATE	Current Outages	% State Without Power	Storm Peak Outages	% Restored
LA	921,661	41%	~ 1,075,158	14%
PA	100,359	2%	122,450	18%
NJ	60,388	1%	92,651	35%
NY	41,925	<1%	50,995	18%
MS	36,372	3%	~ 148,850	76%
CT	17,296	1%	36,822	53%
MA	12,327	<1%	19,397	36%
TOTAL	1,190,328			

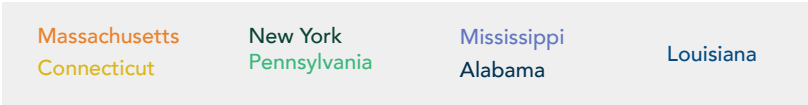
Although restoration has begun in some portions of the affected region, state-level totals may appear to increase as responders receive additional, more accurate information on local outage numbers. Alabama was removed when it dropped below 2,000 customer outages.



Hurricane Ida Caused at least 1.2 million electricity customers to lose power



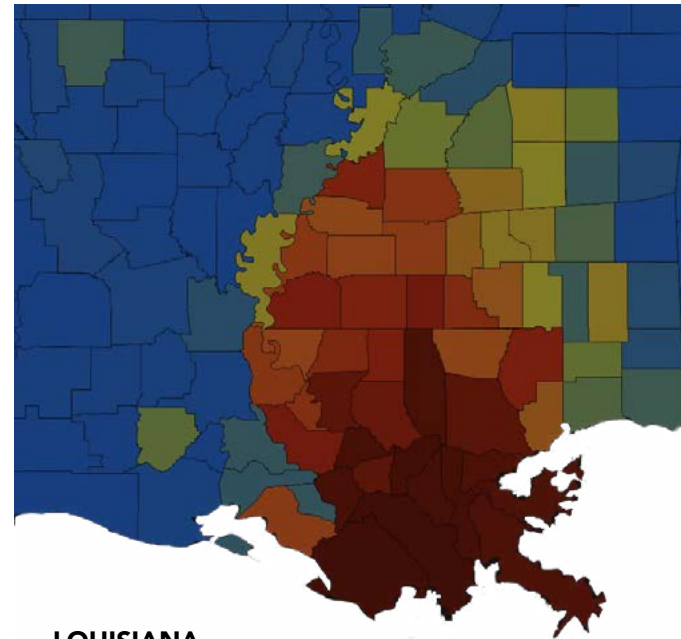
Source: Graph by the U.S. Energy Information Administration, based on data from the U. S. Department of Energy Office of Cybersecurity, Energy Security, and Emergency Response



PowerOutage.us
@PowerOutage_us



This morning over 1.17 million electric customers are without power due to #HurricaneIda, with 14 countries over 80% out. Check out poweroutage.us for current #PowerOutage data.
(2021-08-03 7:37 AM CDT)



LOUISIANA

Customers Tracked: 2,222,301
State Outages: 1,042,398

Outage Scale:

0% 10% 30% 60% 100%

MISSISSIPPI

Customers Tracked: 1,264,445
State Outages: 130,903

PowerOutage.US

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