

# PROTECT AGAINST POWER GRID DISRUPTIONS

## Keep the lights on with increased grid resiliency and reliability via **GridOS® Orchestration Software**

Driven by climate change, disruptive events are happening more frequently.



In 2023, numerous weather disasters inflicted \$1+ billion in damages each

! Total damages for the year amounted to \$95 billion for the US alone

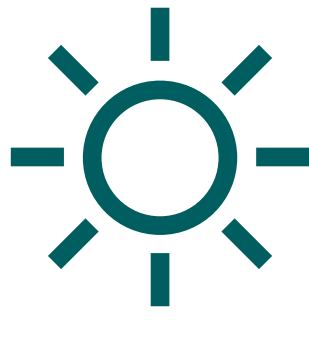
Source: NOAA



2022 saw 18 billion-dollar weather disasters in the US

! These events had a cost of \$178.8 billion

Source: The Washington Post



Summer 2023 was the hottest on record for the Northern Hemisphere

! The summer produced many heat waves, storms and wildfires.

Source: NOAA



19 states bar utilities from shutting off service during heatwaves

! As extreme heat grows worse, more people could be at risk of losing electricity

Source: CNN

### How can utilities mitigate the effects of disruptive events?

GridOS is designed to unlock proactive planning and reduce outages, damages, and costs.

Smart and secure technology empowers utilities to prepare, respond, and recover safely and efficiently while minimizing the overall impact of disruptive events.

## POWERFUL SOLUTIONS THAT KEEP THE LIGHTS ON

21%

GE Vernova customers experience 21% less network outages\*

17%

GE Vernova customers realize 17% faster restoration times\*

\*Data source from Annual Electric Power Industry Report, Form EIA-861, October 2023 results based on all utilities in the United States. Reliability data reflects average SAIDI and SAIFI with MEDs.

By using grid orchestration software, a utility in the US avoided over



150 MILLION

Customer Minutes of Interruptions in one year



175 MILLION

of Interruption Cost Estimates in one year

## THE POWER OF GE VERNOVA

~25%

of the world's electricity is generated with the help of our technology base

30%

of the world's utilities are served by our software

90%

of the world's power transmission utilities have been equipped with GE Vernova technology

1,000

scientists and engineers, including more than 500 Ph.D.s

Source: 2023 GE Vernova Sustainability Report

## GridOS CAN HELP BEFORE, DURING AND AFTER A DISRUPTIVE EVENT

### GridOS Visual Intelligence

- Overlay network maps with satellite and LiDAR imagery in a single interface
- Identify areas where vegetation threatens assets
- Unlock next-level efficiency and efficacy in trimming activities

### GridOS Disruption Prepare

- Assess disruptive event risks with weather data sources
- Determine likely outages based on historical patterns
- Send alerts and communications to workforce and community
- Map, visualize, and address asset-threatening vegetation

### Enterprise Outage Management System

- Dispatch work crews, internal or contract, to damaged areas
- Manage the flow of power based on zones of impact
- Augment control center staff with remote resources via a smart and secure mobile app

### Storm Manager

- Acquire and activate resources
- Prioritize and direct recovery efforts
- Manage logistics, including housing and billing, for all recovery personnel
- Communicate directly with workforce