

ACCELERATETHE ENERGY TRANSITION

Orchestrate the sustainable energy grid of the future with GridOS® Orchestration Software

The energy transition is driving radical change across the ecosystem, bringing vast complexities, unpredictability, and volatility to the grid. Utilities need a new way to manage the many systems and assets that form their networks, putting a safe, reliable, affordable, and sustainable grid at the center of decision-making.

The solution is grid orchestration.

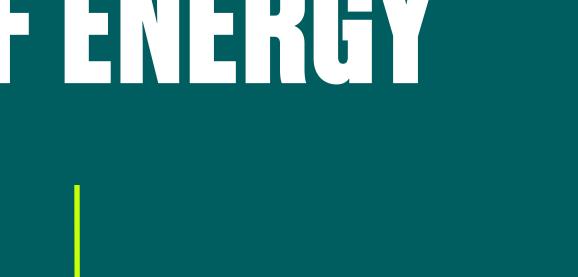


GridOS IS HERE TO HELP.

GridOS combines large scale renewables management, distributed energy generation management, and EV planning and management on a single platform.

The GridOS portfolio enables utilities to orchestrate the complexity of a sustainable energy grid while delivering a reliable and resilient network.

ARE THE FUTURE









Annual sustainable energy investment worldwide will need to more than

TRIPLE BY 2030

by 2050

to reach Net Zero emissions

Source: McKinsey



Solar PV claims the most installed power capacity in forecasts worldwide by



by installations are expected to increase by

Global annual offshore wind



By 2030, **60%** of global car sales need to be electric in order to meet 2050 Net Zero goals Source: IEA

CUT COMPLEXITY, REDUCE COSTS, AND MORE

GE Vernova Grid Software

Avoid up to 40% in inertia



customers have managed clean energy grids with up to 70% renewables penetration



management costs for large grids with high renewables penetration Data based on a single demonstration project - NG ESO in UK. Results may vary based on utility's generation mix.

plan in less than 10 seconds for an area covering

AEMS PLATFORM

3.5 million people Data based on a single demonstration project - PG&E in US.

PRODUCTS THAT

can make an auto-restoration

THE POWER OF GE VERNOVA

of the world's electricity

is generated with the help of GE Vernova's technology base

of grid innovation

130+ YEARS

of the world's power transmission utilities have been

equipped with GE Vernova technology

including more than 500 Ph.D.s Source: 2023 Sustainabity Report

scientists and engineers,

ACELERATE THE JOURNEY TO NET ZERO **Advanced Energy Management System (AEMS)** Manage large scale renewables

Regulate wind power by calculating the precise amount required for the grid Create power restoration plans for faster recovery from disruptions

- Digitally estimate and increase line rating Calculate the right amount of inertia needed to restore the grid to a safe point
- Distributed Energy Resource Management System (DERMS) Monitor, integrate and manage Distributed Energy Resources (DERs)
- Automate connection acceptance workflow for maximum efficiency Simulate EV growth to determine impact on the grid
- Anticipate and avoid grid violations Enable Non-Wire Alternatives to optimize expenditures

Advanced Distribution Management System (ADMS) Orchestrate the distribution grid beyond the functions of simply Supervisory Control and Data Acquisition (SCADA), Distribution Management System (DMS) and

- Outage Management System (OMS) Draw on DERs and controllable loads to balance the grid for maximum reliability
- Prepare for and recover from disruptive events quickly and safely Increase workforce access beyond the control room



GE VERNOVA

Learn more about what GridOS Orchestration Software can do for you

Get in touch

© 2024 GE Vernova and/or its affiliates. All rights reserved.

**** 1-833-690-5552

