

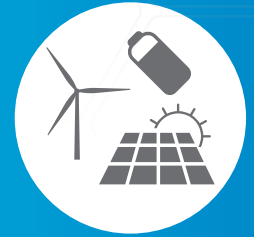


Digital Energy

Advanced Distribution Management Solutions (ADMS) Portfolio: *DER Orchestration*

HARNESSING THE POTENTIAL OF DISTRIBUTED ENERGY RESOURCES (DERs)

Distributed Energy Resources (DERs) and associated technology are disrupting utility business models. Digital transformation helps effectively orchestrate DERs for utility success.



BUSINESS CHALLENGE

Increasing levels of distributed energy resources (DERs) impact utilities' safe and efficient delivery of electricity.

DER penetration is spread across the electric grid and therefore impacts utilities' visibility to and effective utilization of utility-owned and third-party DERs.

REAL RESULTS

Up to 20%

Increase in renewable imports onto the grid

Decrease CAPEX

Effectively manage DERs as non-wire alternatives to costly grid and generation upgrades

End-to-end Orchestration

Orchestrate DERs from planning through to control

ge.com/digital/ADMS

OVERVIEW

Transforming DERs from a liability to an asset

As a component of the ADMS portfolio, GE's DER Orchestration solutions enable utilities to manage and orchestrate DERs in an end-to-end manner, from planning through to control, via a range of flexible deployment options from on-prem to cloud.

GE's software provides operators with the requisite tools and situational intelligence to recognize developing situations and act quickly and decisively, orchestrating flexibility across the grid from both utility and non-utility DERs, while unlocking new revenue streams. With the right digital solution, utilities can address the uncertainties of DER proliferation and deploy decentralized intelligence closer to the edge to deliver resiliency and scalability.

GE's software provides operators with the requisite tools to:

- Visualize DERs in both a geographic and temporal sense
- Understand current and near-term forecasted states of DERs
- Mesh consumption information from smart meters with load forecasts and status updates from the grid
- Disaggregate DG and storage from load
- Provide constraint management for distributed generation while maximizing renewable export onto the grid and minimizing violations
- Coordinate utility and non-utility DERs to enhance grid resiliency
- Optimize grid investments and defer capital investments through non-wires alternatives
- Reduce physical and cyber vulnerabilities using DER real-time information and flexibility



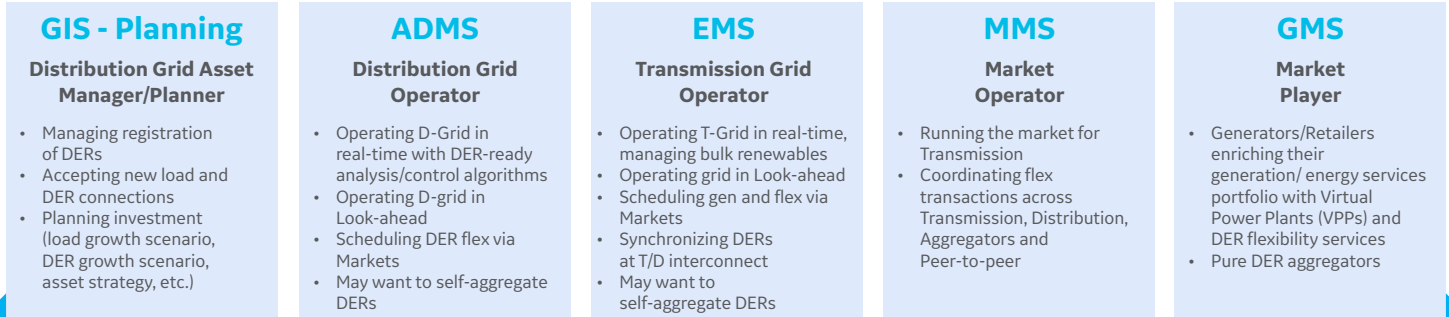
Look-ahead Analysis and Optimization
Optimally scheduling DERs as per generation forecasts and anticipated violations

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Advanced Distribution Management Solutions (ADMS) Portfolio: DER Orchestration

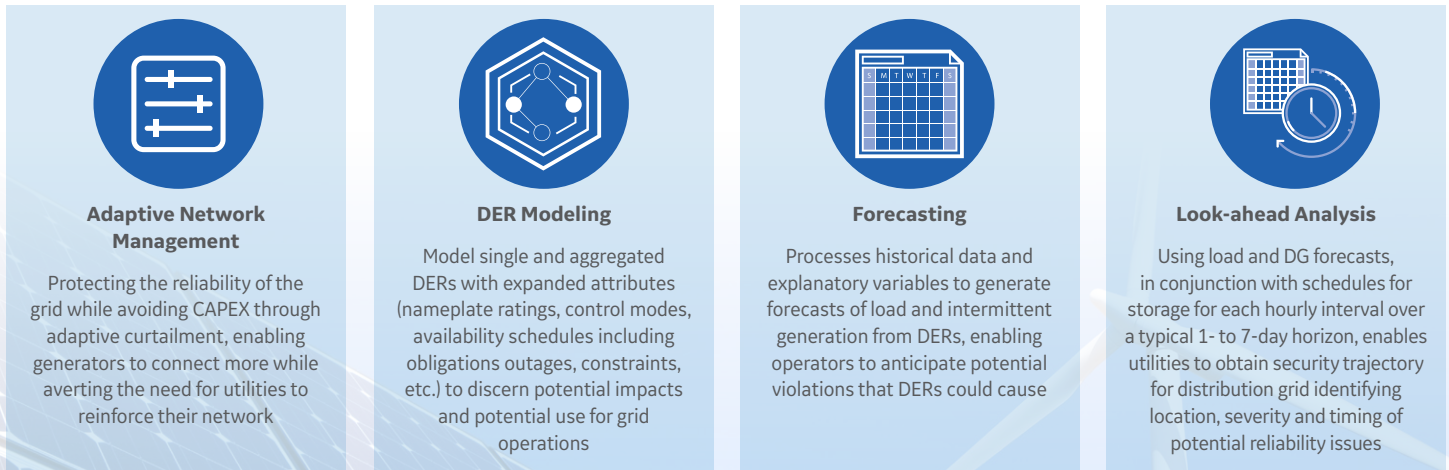
END-TO-END DER ORCHESTRATION

GE's DER Orchestration solution enables utilities to manage and orchestrate DERs in an end-to-end manner, via flexible deployment options ranging from edge to cloud.

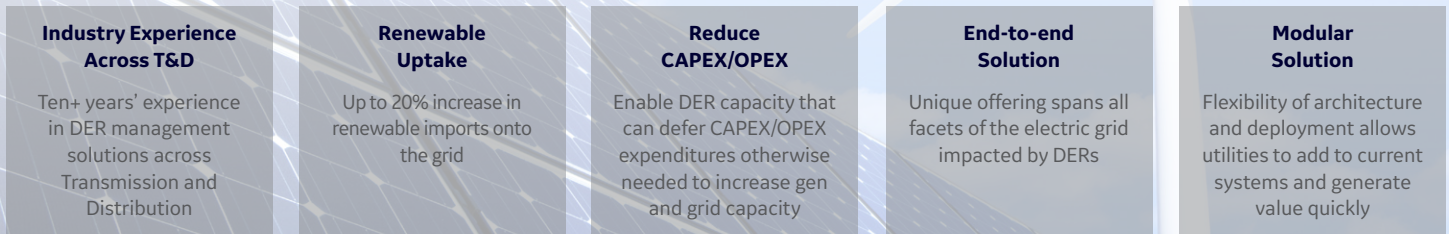


Consistent modeling, communications and coordination between all elements

KEY DER ORCHESTRATION MODULES



VALUE DELIVERED



GE's DER Orchestration solution provides operators with the requisite tools and situational intelligence to recognize developing situations and act quickly and decisively, orchestrating flexibility across the grid from both utility and non-utility DERs, while unlocking new revenue streams.

Contact Us
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