

Going Beyond “Grid-Friendly”

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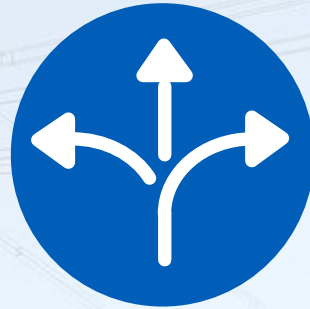


Conditions for Successful Renewables Integration



AVAILABILITY

Assets must be online and available to generate power



FLEXIBILITY

Power producers must be responsive to changing grid needs



STABILITY

Generated power must support or enhance grid stability



Digital and non-digital solutions are available



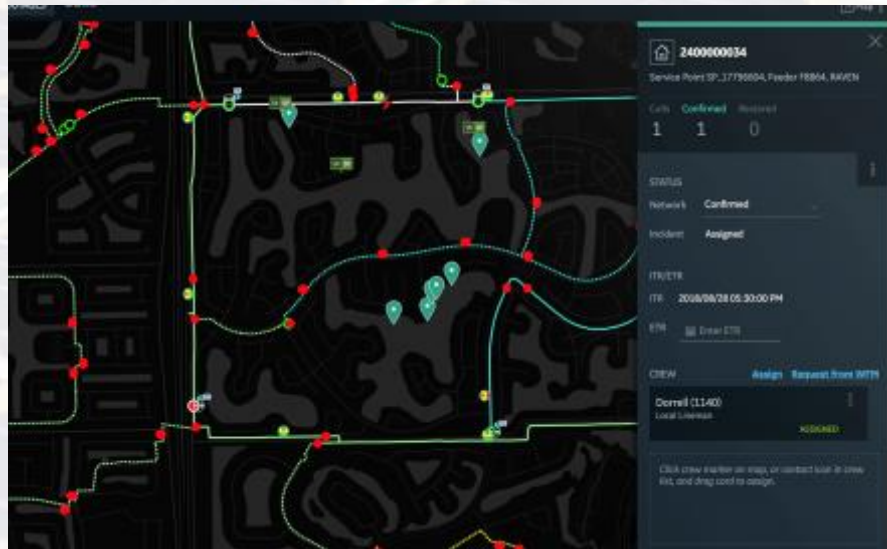
Availability-Enabling Solutions

- ❑ Single point of failure vs. redundancy
- ❑ Proactive performance management
- ❑ Fleet-level inventory management
- ❑ Monitoring & diagnostic devices
- ❑ Emerging inspection techniques
- ❑ Condition-based maintenance



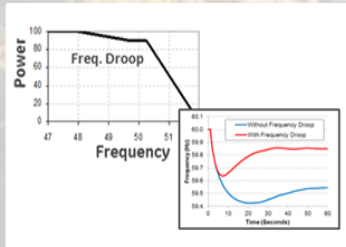
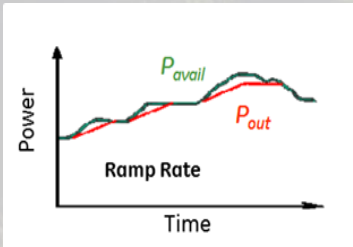
Flexibility-Enabling Solutions

- Advanced Distribution Management
- Ramp-rate controls improvements
- Advanced curtailment strategies
- Energy storage technology



Stability-Enabling Solutions

Node-Level Controls



FACTS Technology

System-Level Controls





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