

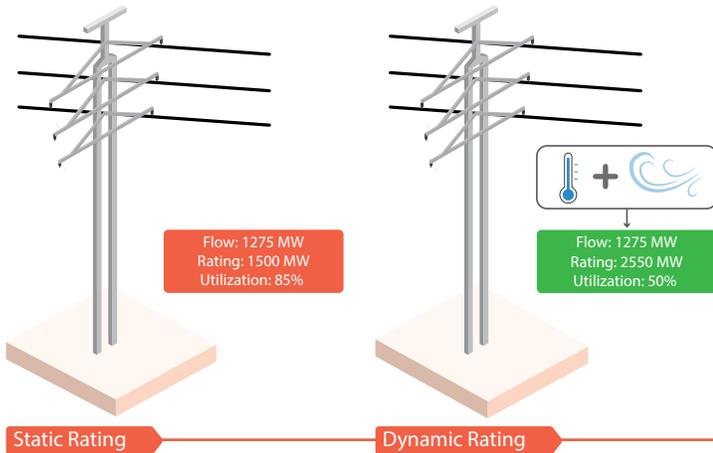
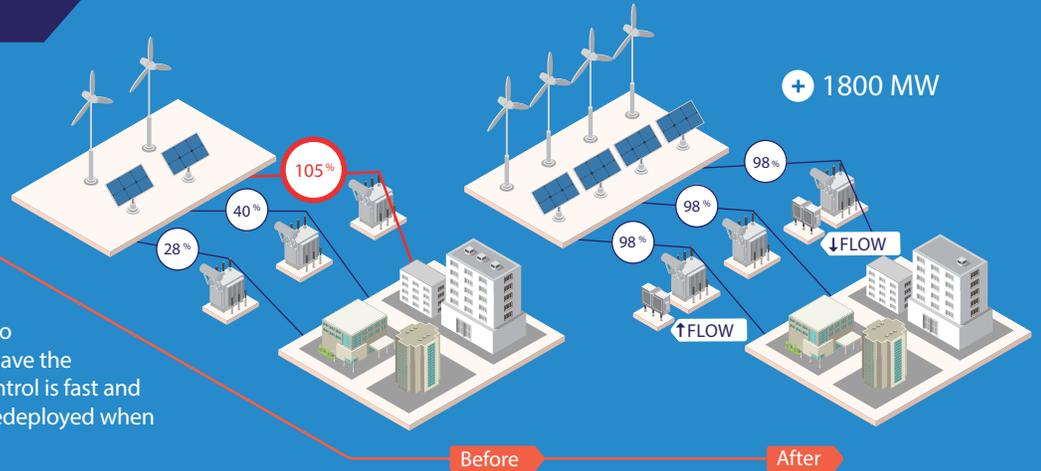


Grid-Enhancing Technologies (GETs):

Hardware or software that increases the capacity, efficiency, and/or reliability of the transmission grid, since our technologies provide grid-wide benefits (even DLR, which only acts on individual facilities).

ADVANCED POWER FLOW CONTROL

Actively balance the flow on transmission lines. The devices can intelligently raise or lower the impedance - the line's opposition to current - in real time to ensure that power is delivered on lines that have the capacity to carry it. Advanced power flow control is fast and flexible to deploy, easily scaled, and can be redeployed when needed elsewhere on the grid.

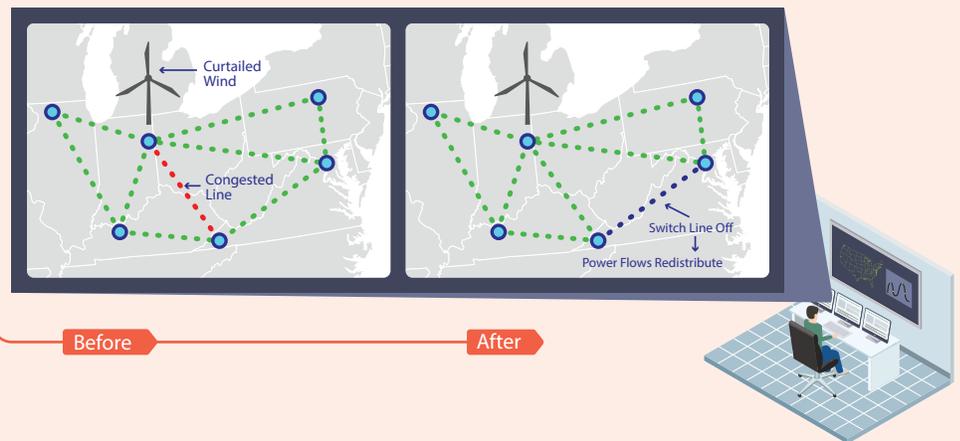


DYNAMIC LINE RATINGS (DLR)

Set a transmission line's loading limit based on monitored conditions rather than a fixed limit. Static transmission line ratings are based on the heat-tolerance of the equipment, and conservative assumptions about the impact of ambient conditions on the lines. DLR monitors those ambient conditions which may cool the line to allow it to safely carry more current and calculates the true capacity of transmission lines. DLR generally allows more flow over the course of a year, especially in windy regions where transmission capacity is critical for wind power development, but DLR also detects when flows should be reduced to continue safe and reliable operation in extreme heat or other conditions.

ADVANCED TOPOLOGY OPTIMIZATION

Software that identifies grid reconfigurations to reroute power around congested or overloaded transmission elements, taking advantage of the meshed nature of the grid. The reconfigurations are implemented by switching on/off existing high-voltage circuit breakers. The software provides grid-wide optimization coverage, is not limited to specific locations, and can optimize with other GETs.



About WATT

The Working for Advanced Transmission Technologies (WATT) Coalition advocates for policy that supports wide deployment of Grid-Enhancing Technologies (GETs), to accelerate the clean energy transition and lower energy costs. Dynamic Line Ratings determine the true, real-time capacity of power lines. Advanced Power Flow Control allows operators to reroute power to lines with available capacity. Topology Optimization identifies the best grid reconfigurations to reroute flow around

bottlenecks. In operations, these technologies reduce congestion costs and improve economic dispatch, situational awareness and reliability. In planning, they reduce the time, cost and complexity of integrating new generation and load. WATT members include Ampacimon, Heimdall Power, LineVision, Lindsey Systems, NewGrid, Smart Wires, and WindSim Power. watt-transmission.org

