What does it do

The Dispatcher is a supervisory farm-level controller that manages a project’s dispatch schedule to achieve a farm-level outcome such as load following. It generates a 24-48 hour look ahead battery charge and discharge schedule, which is used by the plant controller as a reference while being updated every 1-30 min or as conditions change.

- Replaces the fixed scheduled power control with a dynamic one, to optimize plant revenue.
- Connects to external forecasting services, utility SCADA systems and non-GE plant controllers using standard protocols.
- Supports services like energy shifting, energy arbitrage, renewables smoothing, BESS life management, and load following.

Customer value

- Estimated up to 5% additional revenues based on curtailment avoidance, improved price arbitrage\(^1\).
- Improved BESS degradation rate $\rightarrow$ delayed/avoided augmentation
- Can be adapted to suit changing market operations or constraints.

Key Applications

- Wind/Solar hybrid plants where value of kWh changes with time of day OR plants that have requirements on output profile
- Collocated assets only

\(^1\) Based on solar + BESS, wind + BESS case studies, details can be provided if requested.

How does it do it

Dispatcher computes optimal charge/discharge schedule to maximize plant revenue and asset life

Adjusts optimization strategy based on real-time asset feedback

Dispatcher Snapshot

Other Related FLEXIQ Solutions

- Architect
- Plant Control
- Monitoring & Diagnostics (MD)

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