GE VERNOVA

Alpha Trader for:

MERCHANT RENEWABLE OPERATORS

Accelerate the energy transition by increasing the profitable operation of your merchant power plant and manage downside risk by leveraging AI/ML informed recommendations for day-ahead energy market participation

Merchant Renewable Operator Advisor

BEFORE

A merchant operator of a 150MW wind farm using GE turbines with no PPA in ERCOT (Texas), would turn off its wind farm whenever real-time price dropped under its O&M cost, reducing their annual capacity factor. This market approach only leverages real-time price.
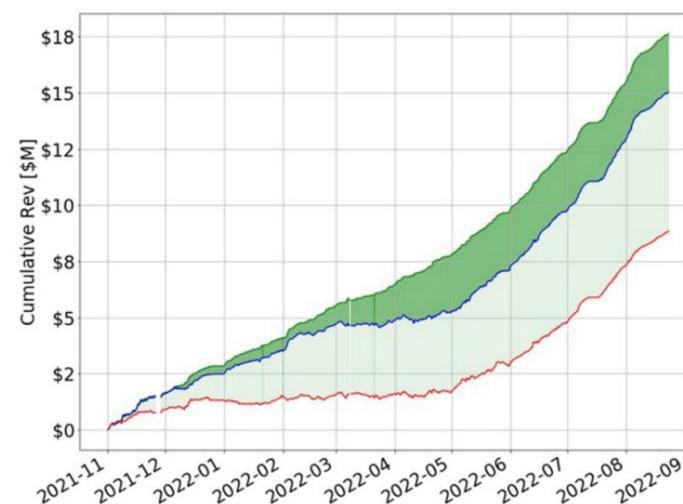
AFTER

GE Vernova deployed Alpha Trader to understand the value of entering the day ahead market at this wind farm. Each day the software made recommendations of day-ahead production commitment accounting for O&M cost, generation, and price risk.

Revenue improvement opportunity over 10 months

More than	More than
$8M	**$2.5M**
over RT only	over passive DA

This chart illustrates the results of each approach over the 10-month trial period

- 🟩 Alpha Trader day-ahead
- 🟩 Passive day-ahead
- 🟧 Real-time only

1. Passive day-ahead – Plant offers predicted output into the day-ahead market, without consideration of DART spread. No operation during negative real-time when not committed day-ahead

2. Alpha Trader day-ahead – Plant offers predicted output into the day-ahead market at recommended hours. No operation during negative real-time when not committed day-ahead.

Key Features

- Advises the MW/hour to offer for each plant
- Probabilistic insight into generation and price predictions
- Aggregate multiple sites into a single view for performance monitoring
- Risk management for tuning recommendations to match your profile
- Easily access daily recommendations via UI, email or API

Benefits

- Increase your capacity factor
- Hedge exposure to negative real-time prices
- Understand the distribution of possibilities, not just a single number
- Reduce the down time of perfectly good assets
- Automate the gathering and synthesis of various datastreams to provide actionable intelligence

Requirements*:

- Site operational data needs to be provided by customer
  - Already connected to GE
  - Customer hosted service for GE to query
  - GE hardware or VM on site
- Nodes and hubs of interest
- Operational constraints

Does your risk management strategy often lead to curtailing and missed opportunities?

Confidently participate in the day-ahead market with reliable daily recommendations to increase project returns for the wholesale market.
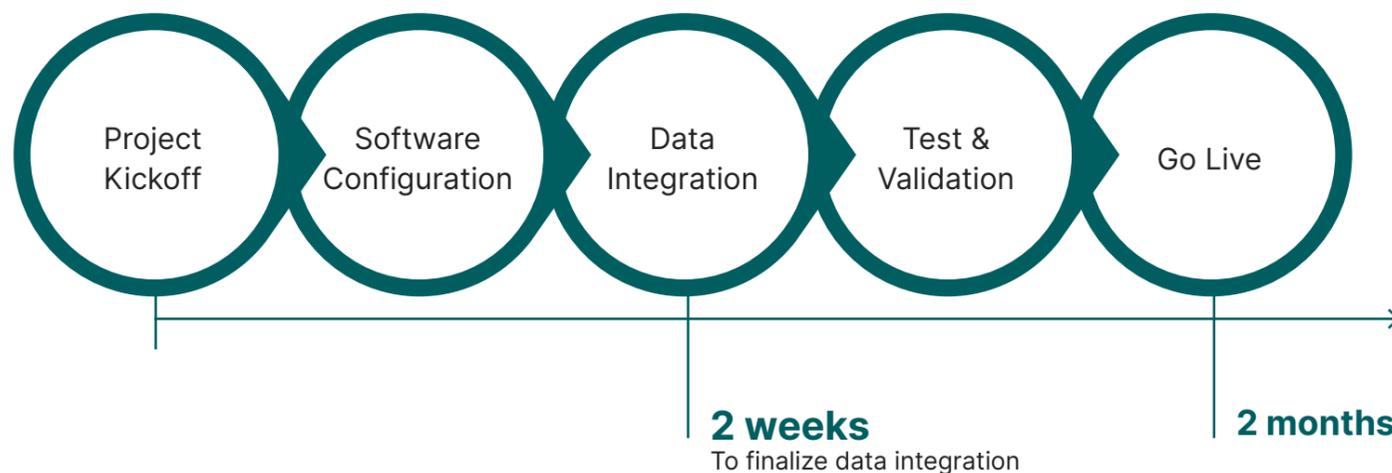
Book a demo ▶

HOW GE VERNOVA COMPARES TO THE COMPETITION

FEATURE	COMPETITOR A	COMPETITOR B	GE VERNOVA
Asset performance prediction	✓		✓
Price prediction		✓	✓
Risk-aware recommendation			✓

DEPLOYMENT

On cloud with configurable data delivery.

IMPLEMENTATION*

Project Kickoff → Software Configuration → Data Integration → Test & Validation → Go Live

2 weeks
To finalize data integration

2 months

*Does not include outage odometer or Capacity Dispatch Optimizer / Capacity Trader installation times

ALPHA TRADER UTILIZES THE FOLLOWING

Optimize the balance between portfolio risk and revenue, leveraging our proprietary predictions of asset performance and market prices.

Digital twin models for each facility in your portfolio continuously updating based on actual performance

AI/ML models for all relevant market prices that affect your portfolio economics

Easy-to-access software user interface that provides actionable recommendations

ALPHA TRADER PRODUCT LINE

■ Base Solutions   ☐ Add-on

PERFORMANCE PREDICTIONS	THERMAL	RENEWABLE	FINANCIAL
• Operating Envelope Advisor for the thermal plants • Energy Predictions for Renewables	• Fuel Noms • Offer Curve Analysis • Outage Scheduling Advice	• Offtake Risk Advisor • Merchant Operation Risk Advisor • Deviation Settlement Risk Advisor	• Energy Trader - DART Spread

ALPHA TRADER FOUNDATION

STOP MISSING OPPORTUNITIES.

Trusting a recommendation takes time. See how you can reduce risk and optimize your portfolio. Request a free consultation for a discounted trial.

Book now ▶