

# Alpha Trader for Merchant Renewable Operators from GE Digital



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.

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.

## 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 by 30% or more
- 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

## Hardware/software:

- Site operational data needs to be provided by customer
- Already connected via GE
- Customer hosted service for GE to query
- GE-hosted service for customer to post
- Nodes and hubs of interest
- Operational constraints



## Merchant Renewable Operator Advisor

A 150MW wind farm using GE turbines with no PPA in ERCOT (Texas) using Alpha Trader Merchant Operator Advisor

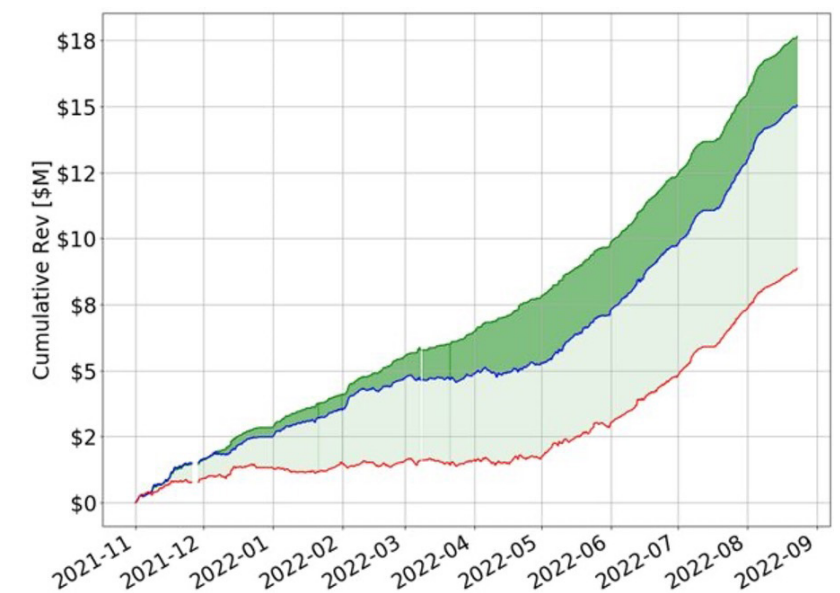
BEFORE	AFTER	Revenue improvement over 10 months
<p>Customer turned off its wind farm whenever real-time price dropped under its O&amp;M cost, reducing their annual capacity factor.</p> <p>Current process leverages only real-time price.</p>	<p>Daily recommendations of day ahead production commitment accounting for O&amp;M cost and risk profile were provided.</p> <p>Each day, Alpha Trader's recommendations were entered into their market interface platform.</p>	<p><b>+\$8M</b> Over RT only</p> <p><b>+\$2.5M</b> Over passive DA</p>

1. Passive day-ahead – Plant offers predicted output into the day-ahead market, without consideration of DA-RT 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.

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

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



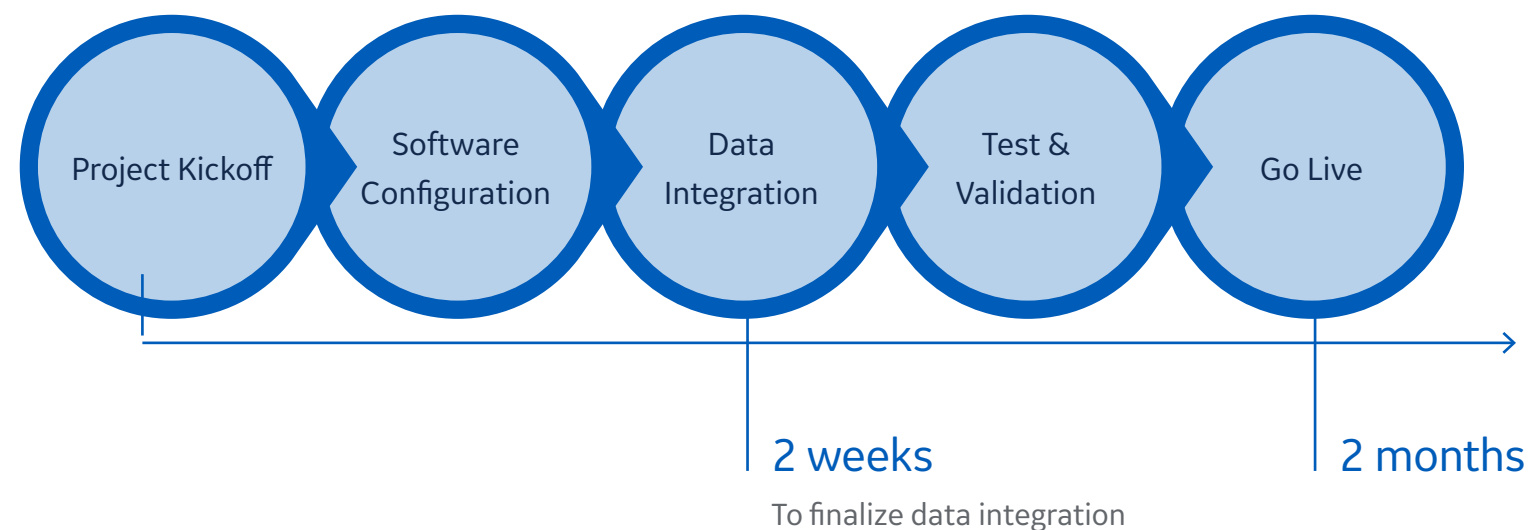
## How GE Digital stacks up compared to the competition

	Competitor A	Competitor B	GE Alpha Trader
Asset performance prediction	✓		✓
Price prediction		✓	✓
Risk-aware recommendation			✓

### Deployment

On cloud with configurable data delivery.

### Implementation\*



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

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## 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



Machine Learning 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

- Operating Envelope Advisor for the thermal plants
- Energy Predictions for Renewables (Solar/Wind)

#### Thermal

- Fuel Noms
- Offer Curve Analysis
- Outage Scheduling Advice

#### Renewable

- Offtake Risk Advisor
- Merchant Operation Risk Advisor
- Deviation Settlement Risk Advisor

#### Financial

- Energy Trader - Dart Spread

### Alpha Trader Foundation

### ProcessLink



## Ready to ensure reliable power while maximizing margins and managing risk?

Book your free trial today.

**BOOK NOW**

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