



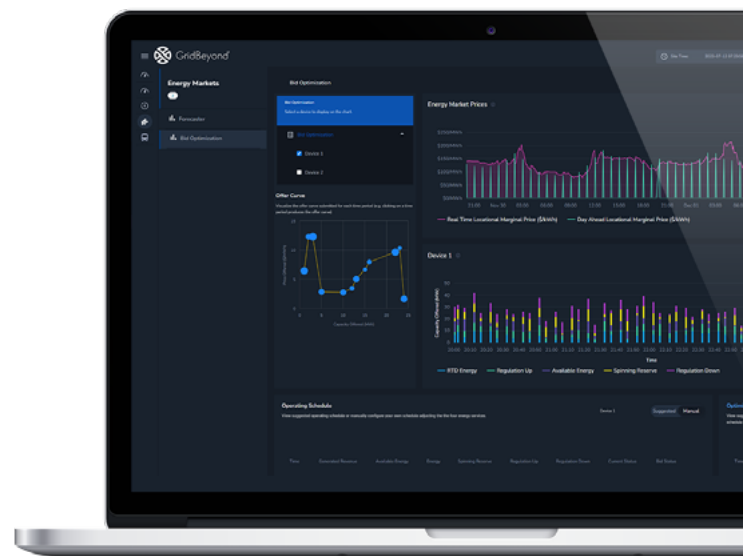
Bid Optimizer

AI-powered optimisation to drive profitability to new heights by ensuring optimal bids that maximise gross margin or P&L across all forward trading periods.

The Opportunity

In today's competitive marketplace, green generation and energy storage asset owners and operators face a significant challenge: how to ensure maximum profitability amidst the complexities of the least-cost power markets and the operational demands of energy market bidding. Addressing these concerns becomes even more critical as asset owners strive to optimise their offers and participate successfully in wholesale power markets.

To overcome these obstacles, GridBeyond has launched Bid Optimizer - an innovative solution that eliminates guesswork from energy bid optimisation. This proven technology empowers merchant generators and energy storage operators by providing them with a strategic advantage in optimising their energy and ancillary offers, maximising the profitability of their entire portfolio.



Solution Overview

At the core of this cutting-edge solution lies a powerful AI-powered optimisation engine, which leverages Monte Carlo simulations to hone and improve understanding of energy asset management, allowing for more informed decision-making and enhancing revenues for energy and ancillary offers.

The AI-powered optimisation platform accurately forecasts forward power prices, running simulations to align site demand with managed generation and battery storage assets. Use of digital twin models enables the handling of variables and the capture of uncertainty about regression parameters. This enables the exploration of various scenarios and quantifies the probabilities involved in making projections. This empowers businesses in designing and executing the most lucrative bidding strategy, ultimately driving profitability to new heights.

Key Benefits



Forecast clearing results

Harness AI models to forecast price, demand, renewable power generation, and other time series data to ensure that all revenue streams are maximised.



Assess profitability of bidding strategies

Identification of arbitrage opportunities across all available markets, balanced with your assets, production schedules, and flexibility strategy.



Automate preferred bid

Robotic Trading to monetise your position across energy markets and ancillary services ... every hour... every day.



Maximize Revenue

Elevate your system and financial planning and operation by relying on AI to help you design, deploy, and optimise your assets.

How It Works

Use AI to optimise DERs profitability, site performance, and available revenue streams in 15-minute increments. Forecast energy prices, demand, and generation for each asset, run physics-based simulations to find the best bidding strategy across energy and ancillary markets and utilise Robotic Trading to automate the best strategy for your assets, while ensuring projects maintain their warranty, and remain ITC-compliant.



We implement our Bid Optimizer on a private cloud of your choosing, or on-site, and you control the data and the optimisation models.



Detailed real-time forecast and post-trade analysis dashboard. Actual versus optimal scenarios are computed and compared automatically.



You can select your preferred bidding strategy and the Robotic Trading function will automate the bidding process based on your selected parameters.



Combine with our AI-powered Designer and Forecaster tools to get the best recommendations on how best to expand and optimise your entire portfolio.



Why GridBeyond

Experience

Backed by a decade of successfully delivering energy solutions worldwide, we know what it takes to unlock the full potential of your energy assets.

Innovation

AI, machine learning, and energy experts are the foundation of our identity, empowering us to pioneer transformative solutions that revolutionise the energy industry.

Flexibility

With modular solutions designed to meet customers exactly where they are, we empower them to navigate the energy industry with ease and embrace growth opportunities on their own terms.

Integrity

We prioritise transparency with our data and modelling, standing firmly behind our solutions, providing steadfast support and accountability when challenges arise.

ABOUT GridBeyond

GridBeyond is a global market leader in battery management and energy trading solutions for industrial, commercial, institutional, and utility partners

By Numbers

900+ customers sites

2.3+ GW flexible asset portfolio

200+ man years in Platform Development

160 team members across

20 grid system areas

6 headquarters locations