

About the Customer

A \$50B electric utility company came to Allegro with a very specific problem: They needed to balance their resources on an hourly basis to minimize cost, including wind curtailment.

This global utility company was unique in that they were their own balancing authority. They profited from power purchase agreements (PPAs) — contracts between two parties where one party sells both electricity and renewable energy certificates to another party — but there was a problem.

The Challenge

In order to get the most out of their PPAs, this organization needed to know how much wind would be produced for the hour. However, prior to using advanced analytics with the FEA @Energy/WindWorks solution, the organization was just making educated guesses and purely relying on their years of experience to make decisions.

This resulted in waste not just in their wind assets — but in balancing their wind assets' megawatts with other parts of their portfolio. They needed a solution in place to help them take total control of their asset and portfolio optimization and go beyond educated guesses.

The Solution

The utility organization selected Allegro Analytics' FEA @Energy/WindWorks solution to help them optimize their balancing assets.

Allegro developed a model within FEA @Energy/WindWorks that took into account the organization's real-time weather forecast and the position of all of their assets for the next hour. The organization could determine the optimal amount of power to sell — utilizing hard data rather than intuition.

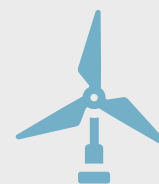
The Results

The results have been tremendous for the utility organization. Their real-time traders are now benchmarked against FEA's model, so they can constantly improve their asset optimization and look for efficiencies. This has led to the optimization and exploration of different bidding strategies for the organization, and they have pushed their risk limits more through the model as a result.

The organization also takes advantage of Allegro Analytics' world-class analytical support provided by seasoned Ph.D. industry professionals. If they ever have questions about models that didn't match their previous intuitions, they never hesitate to call support for advice.



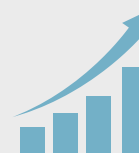
\$50B UTILITY COMPANY



**DIFFICULTY FORECASTING
WIND GENERATION**



**UTILIZED FEA
@ENERGY/WINDWORKS**



**OPTIMIZED BIDDING
STRATEGIES**



Allegro ANALYTICS

POWERED BY 

The Next Generation of Commodity Management Software and Advanced Analytics Is Waiting for You We're Ready to Change Your Business

Stop relying on spreadsheets, your own homegrown software, or outdated CTRM software for your commodity trading and risk management. In a volatile, complex, and uncertain market, you need the global leader in commodity management software and advanced analytics to help you control how your business grows. There's simply too much at stake to leave to anyone else.

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About Allegro Development Corp.

Allegro, an ION Commodities company, is a global leader in commodity management software and advanced analytics for companies that buy, sell, produce, or consume commodities. For over 30 years, Allegro has delivered position visibility, risk management, comprehensive controls, regulatory compliance, and analytics through a forward-compatible, next-generation architecture that empowers commodity organizations to make data-driven decisions. Allegro's proven CTRM software innovation and flexibility, coupled with a strong global network of industry partners and industry-leading analytics, makes its solutions perfect for full commodity portfolio management.

Headquartered in Dallas, Texas, Allegro has offices in Houston, Dubai, Jakarta, Singapore, London, and Zurich. To learn more, visit Allegro's website at www.allegrodev.com.

ALLEGRO BY THE NUMBERS

Take a Look at Some of the Numbers We're Proud of

35 YEARS IN BUSINESS

50
COUNTRIES

350
EMPLOYEES

8,800
USERS

280
CUSTOMERS



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