40%

Scope 1&2 carbon reduction target

~100

building sites

Turning Energy Data into Action: Integrating Diverse Energy Assets at One of the World's Largest Banks to Maximize Cost Savings and Minimize Emissions

One of the world's largest banks, JP Morgan Chase (JPMC), is a global leader in environmental sustainability. As a member of the Net-Zero Banking Alliance and with its Paris-aligned financing commitment, JPMC is helping set the world on a path to net-zero by 2050 and is targeting a 40% reduction in its own Scope 1 and 2 emissions by 2030. Achieving this emissions goal requires a more comprehensive view of energy activity, specifically aggregating energy consumption and generation data across its ~100 sites to inform strategic energy procurement.

> "We're committed to using state-of-the art technology, including artificial intelligence and blockchain technology, to better manage our energy usage across our global portfolio and match it real-time with clean energy resources."
>
> – *Head of Sustainability and Energy for JPMorgan Chase's Global Real Estate Group*

Challenge

Inaccurate and incomplete energy and emissions data constrained reporting accuracy and strategic insights in three areas:

- Comprehensive view of consumption and generation data.
- Balanced cost and carbon energy procurement and trading strategies.
- Accurate accounting for the carbon impact of operations.
- Timeline: 12-Months

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Solution

The primary action was establishing a reliable consumption data feed using NextEra 360 for data sourcing and aggregation. The team used Power Cockpit to normalize utility bill data and integrate with on-site generation to create a timeline view for carbon generating and carbon offsetting processes. With the energy consumption and generation data integrated, the next step was to generate hourly load profiles forecasts across all pilot sites to characterize demand requirements and generative capacity.

The team used the hourly load profiles to inform custom trading strategies to reduce energy procurement costs, maximize carbon matching opportunities, and capture value between the day-ahead and real-time markets. Automatic Trader, the platform's energy trading solution, combined the hourly load profiles, market forecasts, and trading strategies to generate automatic smart bids to optimize the energy portfolio.

To determine the total carbon impact of generation, consumption, and trading, the team utilized Carbon Ledger to create user-friendly reports allowing for tracking progress towards JPMC's goal of reducing Scope 1 and 2 emissions by 40%.

About Us

Built on 15+ years of experience in energy optimization, data science, forecasting, and analytics, NextEra Analytics, Inc. (NEA), a subsidiary of NextEra Energy Resources, developed NextEra 360™ comprehensive energy management software, designed to increase operational efficiency, reduce cost, and accelerate decarbonization no matter where you are in your clean energy journey. Swift and agile, NextEra 360 can be tailored to your site-specific operations and business objectives.

NextEra Energy Resources, together with its affiliated entities, is a clean energy leader, with approximately 27,400 MW of total net generating capacity in the U.S. and Canada, as of year-end 2022, and a world leader in battery storage and is driving the development of the green hydrogen economy. NextEra Energy Resources offers a wide range of clean energy solutions to help businesses and customers across the country meet their emissions reduction goals.

For more information, visit NextEra360.com.

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