

Product Overview

Market Operations for Ireland



Wholesale energy operations management

Market Operations for Ireland is a standalone solution or to work in conjunction with existing energy management, scheduling, or accounting systems to streamline the complicated exchange of time-critical information between internal and external market operations systems.

Market Operations for Ireland provides an integrated, enterprise-level solution for managing complex operating agreements and contracts, bid/offer/schedule submission and tracking, shadow settlement, complex billing and rate calculations, ISO/RTO market communications, and flexible reporting processes in competitive energy markets. It is used by wholesale electricity market participants, generation owners/operators, marketers, and utilities seeking efficient, reliable, and auditable management of complex operations processes. It is designed to operate as a standalone solution or to work in conjunction with existing energy management, scheduling, or accounting systems to streamline the complicated exchange of time-critical information between internal and external market operations systems.

From a technical standpoint, Market Operations for Ireland is an online, 24/7 client-server application built on mainstream technologies (such as Oracle, Java, and open APIs), offering proven, high-volume scalability to support growth in transactions and new market operations requirements as they evolve.

Key Features

Market Operator Communications – Market Operations for Ireland provides automated communications with wholesale market and transmission operators, including message status tracking and detailed audit trail of all data transactions. Multiple markets and interfaces can be managed through a single integrated user interface.

Central Data Repository – Market Operations for Ireland provides a central repository for managing resource plan data submitted to market operators. Automated data exchange with plant historians, control systems, and meter data collection systems is supported. In addition, Market Operations for Ireland includes a detailed representation of production cost parameters, operating limits, and modes, including weather-adjusted heat rate curves for various CCGT configurations and operating modes.

Scheduling and Bid/Offer Submission – Market Operations for Ireland provides user-defined templates and data-entry aids for creating and modifying bids, offers, and schedules. Users can create and save bid/offer scenarios for multiple resources, as well as import bid/offer data from Resource Optimization models.

Shadow Settlement & Dispute Resolution – Users can automatically download and validate ISO/RTO settlement statements and invoices. Multi-pass settlement and complex charge types, including multi-band imbalance, congestion, and tax charges are fully supported, as are user-specified thresholds for filtering significant variances. Users can also drill down for detailed analysis of variances, as well as identify and track status of disputed line items.

Position Reporting – Market Operations for Ireland captures market prices and dispatch results for up-to-date position analysis at the resource, delivery point, zone, and portfolio level. It includes a graphical load/supply balancing tool to facilitate scheduling within contract limits.

Comprehensive Contract Billing – Based on user-defined contract schedule—or account-based billing determinants and charge rates, users can convert these calculations into a detailed audit trail for all billing transactions.

Key Benefits

At Ventyx, we are committed to developing solutions to help our customers become frontrunners in competitive energy markets.

Market Operations for Ireland's extensive capabilities:

- Reduce user dependency on special spreadsheets, thereby promoting consistent decision making, more efficient operations,
- and dramatic cost and time savings.
- Provide an auditable, repeatable, and secure process for managing market transactions.
- Increase the ability to detect and act on errors in market settlement statements and invoices.
- Improve staff efficiency by providing a common framework for operations in multiple markets.

- Enhance overall visibility into physical and financial position.
- Provide key information to schedulers, traders, and the plant operator via extensive, tailorable reporting features.
- Allow for expansion as business grows.

Integration Capabilities

Market Operations for Ireland can be offered as part of an integrated solution suite with several Ventyx products to facilitate seamless information flow between resource planning, the trading floor, dispatch, risk control, and billing and accounting:

Ventyx's commodity neutral energy trading and risk management (ETRM) solution that can be integrated with Market-Manager to provide complete wholesale energy portfolio management with advanced risk analytics.

RetailOffice is Ventyx's retail transaction management solution that supports customer load forecasting, revenue forecasting, pricing and margin analysis, and load settlement processes for both power and natural gas organizations. Ventyx's client list includes local distribution companies (LDCs) and competitive retail energy marketers serving load in all the competitive markets in North America.

Resource Optimization: Ventyx's premier generation and transmission market simulation system has been united with Market Operations for Ireland to provide a new Resource Optimization module. This module optimizes the short-term commitment and dispatch while satisfying generation, reserve requirements, interchange constraints, and generator operating constraints such as minimum up and downtimes.

The system uses mixed-integer linear programming techniques to simultaneously co-optimize energy and ancillary services, consistent with the respective ISO or market operator. It is designed to model complex portfolios of power resources in greater detail.



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Ventyx, an ABB company, is the world's leading supplier of enterprise software and services for essential industries such as energy, mining, public infrastructure and transportation. Ventyx solutions bridge the gap between information technologies (IT) and operational technologies (OT), enabling clients to make faster, better-informed decisions in both daily operations and long-term planning strategies.

Some of the world's largest private and public enterprises rely on Ventyx solutions to minimize risk, enhance operational and financial performance, and execute the right strategies for the future.

To learn more about Ventyx solutions visit www.ventyx.com or contact a Ventyx sales representative today.