ENERGY PORTFOLIO MANAGEMENT

ABB Ability™ nMarket
Automated power trading, communications and settlements.
Today’s power markets demand trading efficiency, decision insight and financial accuracy. ABB Ability nMarket is the answer.

Market challenges

Wholesale power markets create multiple operational challenges for generation, trading and retail marketing companies:

- Manual entry of bids and schedules into market portals is labor intensive and error prone.
- Market settlements are complex; the timing of statements creates accounting cycle nightmares.
- Market statements are voluminous and difficult to analyse and distribute across the organisation.
- Market operators are frequently updating the settlement rules and communication formats, making homegrown and bespoke solutions quickly obsolete and expensive to maintain.

The nMarket solution

The ABB Ability nMarket suite offers the following solutions to these market challenges:

- Direct connection to market operators for submission of generation offers, demand bids and physical schedules
- Automated download of settlement reports and market trading activity
- Shadow calculations using independent data sources
- Allocation of market settlements for customer billing and detailed profit & loss reporting
- Customisable dashboards for graphical analysis of trading position, market information and operational conditions
- Frequent product releases to address operator updates in advance of market changes
- Secure management of market credentials to provide immediate access to market data for analysis and enterprise reporting
- System audit trail and process log to provide accounting compliance and audit

The nMarket Suite offers a seamlessly integrated bid-to-bill transaction management platform for bidding, position management, nomination/scheduling, dispatch, settlement and reporting.

Comprehensive bid-to-bill functionality

nMarket’s front-office modules provide an attractive price performance option for simplifying physical scheduling, nominations, ISO communications and position management. nMarket’s back-office modules offer the energy industry’s most comprehensive platform for ISO/RTO settlement data capture, checkout, volume management, shadow settlement and dispute management.

nMarket technology advancements

- Front office and usability enhancements
  - Browser enabled user interface
  - Bids and offers upgrades
  - Information in a consistent user experience
- Back office and settlements enhancements
  - Faster shadow settlement performance
  - Increased insight to shadow estimates and settlement components
  - Calculation engine upgrade
- Data visualisations
  - Simple user interface for managing vast data sets
  - User configurable outbound APIs
  - User customisation of report layouts
- Increased scalability
  - Distributed architecture for reliability and scalability
  - Integration of multiple environments
  - Simple deployment model

‘With nMarket, we were able to shave hours off our daily bidding and scheduling process, and days off our monthly billing and accounting cycles’.

– ABB customer, US energy marketing company
Solution benefits

Data automation
• Automated bidding and scheduling make data entry easier, faster and more accurate
• Automated capture of market data reduces accounting cycle times and enables custom allocation of charges to internal accounts

Advanced analytics
• Shadow calculations of over 400 market charges with independent data sources
• Shadow settlements increases visibility of potential settlement errors and enables dispute management workflows

Market following
• ABB product experts follow the power markets and provide system updates in advance of market changes
• Systems are always up to date with the latest market requirements

Seamless integration
• APIs enable submission of market transactions directly from third-party ETRM systems
• Downstream integration supports automatically sending approved invoices and custom-allocations of charges and revenue to SAP®, Oracle® and other financial systems

On-premise or cloud hosted options
• ABB cloud services provides high availability and disaster recovery without costly infrastructure
• The industry’s most secure cloud infrastructure
• Access and work anywhere

nMarket features

Trading
• Asset bidding
• Bilateral scheduling
• Managing market offers/bids and bilateral contracts
• Virtual bidding
• Schedule engagement

Operations
• Asset dispatch activity coordination and monitoring
• Unit operational parameter management at a default, daily and hourly level

Settlements
• Shadow settlements
• Checkout
• Dispute management
• Invoice management

Market information
• Meter data
• Clearing prices
• Market data
• Market volumes
• Rates

System configuration
• System user management
• Market participant management
• Pricing node management
• Asset ownership management
• Data security management
• Task scheduling

Allocation
• Allocate settlements to individual customers or business units
• Invoice across settlement periods and data sources
• Manage accruals and prior period adjustments
• Summary and detailed reporting

Reporting
• Customisable view/reports
• Customisable outbound APIs

‘When a year’s profit can be made or lost in a single day, you cannot afford to miss responding to market opportunities. We depend on nMarket’.
– ABB customer, US energy marketing company