



# Digital Energy Market Management System

## INTEGRATED, FLEXIBLE E-BUSINESS SOLUTIONS FOR ELECTRICITY MARKETS

Market Management System is developed by the world's leader of energy management and electricity market systems. GE is a major player in the industry who offers a full solution from market-to-meter for the new digital grid.



### BUSINESS CHALLENGES

- Coordination
- Safety
- Reliability

### Flexible System for Evolving Markets

Complex market rules. Regulatory and legislative compliance. Cross border electricity trade. Very large interconnecting system. Demand response. Smart grid. Digital Grid.

Since deregulation started, electricity markets have evolved from offering simple products to very complex financial and physical portfolios and from simple contracts to multiple markets (day-ahead, hour-ahead, and real-time).

The value of financial transactions being managed by marketplace operators is staggering. That's why relying on an integrated, but flexible market management system is vital when running an electricity market.

GE is a leader in Markets Management system. GE developed Market System for the world first nodal electricity market in New Zealand. Our system runs 4 out of 7 markets in the United States and it is at the heart of the European markets, managing transmission capacity auctions for more than 30 borders from year-ahead to day-ahead.

[gedigitalenergy.com](http://gedigitalenergy.com)

### Modern Architecture for Modern Electricity Markets

Our Market and Settlements solutions are designed around a modern architecture that supports product-based modules. These modules are reusable and can be easily implemented in short time to meet tight regulatory deadlines.

These solutions cover a wide range of applications that have to be managed by the market operator, such as:

- Forward capacity markets
- Financial Transmission Rights (FTR)
- Day-ahead and real-time markets (security constrained commitment, scheduling, and dispatching)
- Look-ahead and fast-start resource commitment and dispatch
- ENTSO-E capacity allocation, scheduling and balancing market
- Settlements

Market Management System solutions rely on an open architecture leveraging industry standards, such as CIM and harmonized models, such as ENTSO-E. For example, GE's Market Management

Systems seamlessly integrates with your enterprise. This interface provides portals and services to market participants and other IT services such as EMS, market monitoring, Meter Data Management, and accounting.



# Digital Energy

## Market Management System



### CUSTOMER BENEFITS

- Market Operators (MO)
- Regional Transmission Organizations (RTO)
- Independent System Operators (ISO)
- Transmission System Operators (TSO)
- Vertically Integrated Utilities



### DID YOU KNOW?

- That 70% of generation capacity installed in US ISO/RTO footprint is managed by GE Market management System ?
- That GE's optimization solutions enables multimillion dollars savings annually?
- That it takes less than 10 minutes for GE's Settlements to perform the whole detailed daily settlements calculations of one of the largest USA electricity wholesale marketplace?

### GE's Market Management System for Today's Markets

Our field-proven suite for markets and settlements leverages the company's 20+ years of energy markets experience and over 30 years in development of energy systems and markets software. You can be assured that you will receive:

- Highly reliable and field-proven optimization solutions used by large electricity market footprints (150+ GW) which enabled 100M\$+ savings
- Highly adaptable solutions that can be easily configured and modified to allow you to quickly comply with any regulatory or market rules revisions
- The insurance that financial contracts processed on the market places will smoothly and reliably flow on the physical grid (explicit model of congestions within optimization)
- A high-performance, scalable, and open system that can match your organization size and can be easily integrated with other components of your enterprise IT system, thus providing an optimized cost to operate and support your electricity markets
- Innovative solutions for Smarter Scheduling and Dispatch including latest industry trends such as demand response, look-ahead capabilities, closer to real-time flow-based applications, and others
- Access to a worldwide community of electricity markets Subject Matter Experts knowledgeable and working on multiple market designs (nodal markets, ENTSO-E)

### GE DIGITAL ENERGY

#### Market Management Solutions Key References



Contact Us  
[ge.com/digital/sales-contact-me](http://ge.com/digital/sales-contact-me)

© 2019, General Electric Company. GE Proprietary Information - This document contains General Electric Company (GE) proprietary information. It is the property of GE and shall not be used, disclosed to others or reproduced without the express written consent of GE, including, but without limitation, in the creation, manufacture, development, or derivation of any repairs, modifications, spare parts, or configuration changes or to obtain government or regulatory approval to do so, if consent is given for reproduction in whole or in part, this notice and the notice set forth on each page of this document shall appear in any such reproduction in whole or in part. The information contained in this document may also be controlled by the US export control laws. Unauthorized export or re-export is prohibited. This presentation and the information herein are provided for information purposes only and are subject to change without notice. NO REPRESENTATION OR WARRANTY IS MADE OR IMPLIED AS TO ITS COMPLETENESS, ACCURACY, OR FITNESS FOR ANY PARTICULAR PURPOSE. All relative statements are with respect to GE technology unless otherwise noted.