e-terra™ market ENTSO-E
e-terra™ settlements ENTSO-E
Integrated, flexible e-business solutions for allelectricity markets implementing ENTSO-E standards

Listening and understanding your unique issues is a key component in designing and delivering successful ENTSO-E solutions.

Today, our e-terra™ ENTSO-E systems and solutions are used by Transmission System Operators working in competitive electricity markets throughout Europe. They provide an integrated suite of products for managing transmission capacity allocation, scheduling, reserves, balancing of energy and settlements.

The e-terra™ ENTSO-E suite is composed of our e-terra™ market ENTSO-E and e-terra™ settlements ENTSO-E products.

Customer Benefits

- Optimized TCO from the Alstom Grid Product approach
- Product upgrade policy keeps pace with evolving ENTSO-E Standards
- Alstom Grid combined Business Process and IT expertise
- State of the art support from our R&D and Operational team

Our Fields of Expertise:

- Electricity Market Design
- ENTSO-E Business Processes expertise
- Power System Engineering
- Software System Engineering
- Database Engineering and Management
- Computer System Architecture
- System Integration
- Project Management
- Customer Training and Support

Our e-terra solutions follow the ENTSO-E devised Role Model framework and the comprehensive ENTSO-E Implementation Guides. The product solutions provide the following applications:

- **e-terra™ market ENTSO-E Capacity Auction**: Manages the allocation of the transmission capacity according to the ENTSO-E Capacity Allocation and Nomination System (ECAN)
- **e-terra™ market ENTSO-E Scheduling**: Supports interconnection and trade as well as production and consumption scheduling according to the ENTSO-E Scheduling System (ESS)
- **e-terra™ market ENTSO-E Balancing**: Implements reserve allocation and balancing of energy according to the ENTSO-E Reserve Resource Process (ERRP)
- **e-terra™ settlements ENTSO-E**: Provides a flexible solution to operate settlements and billing according to the ENTSO-E Settlement Process (ESP)

Network Management Solutions

- **e-terra™ market ENTSO-E Capacity Auction**:tot e-terragenerations
To maintain our high levels of customer service, Alstom grid is committed to following the evolution of the ENTSO-E standards with the continuous development of our product solutions and to implement all major ENTSO-E standard evolutions within the e-terra market and e-terrasettlement products.

Alstom Grid experts are providing an active contribution to the integration of the ENTSO-E work into the IEC TC57 CIM to define the European Market Profile.

e-terra™ market ENTSO-E is the perfect product suite to meet the requirements of European market implementation and integration.

e-terra™ market ENTSO-E is a solution derived from our worldwide e-terra™ market platform addressing the specific business requirements of the ENTSO-E standards for European Transmission System Operators.

Alstom grid has provided product solutions to meet the ENTSO-E requirements since the inception of the standards; our first delivery of e-terra™ market ENTSO-E has been fully operational since 2003. e-terra™ market ENTSO-E also includes an optional market clearing application. This highly configurable application is designed to clear simultaneously the bids from multiple commodities (energy, ancillary services, cross-border capacity, etc.) in compliance with market rules. It provides the capability to combine financial and physical considerations to ensure a secure and transparent market clearing process. Its constrained optimization framework meets the rigorous analytical requirements of today’s complex marketplace.

Alstom Grid e-terra™ market ENTSO-E is also complemented by e-terra™settlements ENTSO-E to provide the operators with a state-of-the-art settlement application.

e-terra™settlements ENTSO-E brings a settlement component into the integrated platform. It provides a flexible approach that allows the customer to configure his unique settlement calculations and fully supports the ENTSO-E Settlement Process and the EAR (Energy Account Report) xml file format.

Both e-terra™ market ENTSO-E and e-terra™settlements ENTSO-E rely on a Service Oriented Architecture (SOA) which implements Web Services and benefits from the latest available technologies. The applications are supported by the Oracle and Java platforms and can be deployed under both Windows and Linux.