Philippine Electricity Market Corporation to implement Siemens energy market management software

Spectrum Power™ Energy Market Management software projects power generation and demand on the grid, allowing market participants to buy or sell the most efficient, lowest cost generation while maintaining grid reliability.

Siemens has been selected by the Philippine Electricity Market Corporation (PEMC), an autonomous group market operator that operates and maintains the Philippines Wholesale Electricity Spot Market (WESM), to provide its Spectrum Power™ Energy Market Management software. This technology will allow market participants to more efficiently exchange and share energy resources, including renewables like wind and solar, based on generation and demand needs. Siemens software will help PEMC analyze and systematically establish energy requirements and allocation of the grid for week, day, and hour-ahead time frames. The system automatically determines the lowest cost generation and renewable mix in real-time to meet demand while maintaining the security of the grid. The software provides market operators greater insight to assess and manage operating conditions in the power grid using state estimation, contingency analysis, prediction of demand, and generation dispatch across the PEMC marketplace.

“The WESM system upgrade will cover all developments, including the recent amendments to the rules and enhancements in the market design resulting from the evolution of the market,” said PEMC president Melinda L. Ocampo. “The market management system (MMS) upgrade is essential for the spot market to prepare it for the more complex set-up of its operations, including the setting up of a reserve market, the integration of variable renewable energy resources into the system as well as the full implementation of retail competition and open access (RCOA) in the deregulated electricity sector.”
The cost-saving potential with this new energy market management software increases significantly due to the proper estimation of current system status, the use of short-term demand forecasts that gauge demand accurately, and five-minute real-time market dispatch. Reliability is also increased through realistic dispatch results, accounting for accurate energy reserves and ensuring the reserves are available when needed during outages and demand and renewable generation fluctuations.

“Currently, 25 percent of the Philippine energy mix is coming from renewables, but as resources like wind energy increase in this region, there is a significant need to manage these efficiently in real-time and dispatch power where it’s most needed,” said Mike Carlson, president of Siemens Smart Grid in North America. “The Spectrum Power™ technology will integrate PEMC’s traditional and renewable energy sources with the needs of a 21st century power marketplace to keep electricity flowing for millions.”

The Spectrum Power™ Energy Market Management software provides an infrastructure that will allow PEMC to integrate its energy market with other software systems, market participants and system operators through a service-oriented architecture (SOA).

This press release and press pictures/further material are available at http://news.usa.siemens.biz/.


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