



Client

Client is responsible for the reliable operation of 550 generation units and a 38,000-mile power transmission system, carrying about 85% of the state's electric load, and serving 21 million customers. A member of the North American Electric Reliability Council (NERC), Client also functions as the independent system operator (ISO) for the region. The council monitors and schedules the flow of wholesale energy on the grid, balancing supply with demand and enabling fair competitive access and maintains records on grid activities and market participants. For retail consumers, Client maintains the database of 6 million premise meters and their respective customers and providers.

Challenge

Quality assure the complex software applications used to run Electric Utility Markets.

Solution (What Bluware Did)

Bluware provided consultants for multiple initiatives including:

- Technical and functional resources for the retail TX SET 1.5 project
- Technical lead for integration testing environment for wholesale markets.
- Technical lead and architecture for systems administration group.
- Technical and functional resources for the Nodal Market project – from network model quality assurance to market transaction processing.
- Technical SME for a variety of technical areas assigned to resolve of a variety of critical time sensitive projects.
- Design and development of middleware application to connect market systems to settlements application.

Bluware consultants provided technical expertise for the development and deployment of Client's market-facing transaction processing systems during the deregulation project. Areas of expertise include service oriented architecture (SOA), web service security, application security, transaction load performance, network model, generation and load asset registration, market operations, settlements, and vendor relations. Bluware consultants also worked with a large number of Market Participants in debugging and qualifying their market-facing systems.

Benefits

The successful project(s) completion facilitated the go-live of the Texas Electrical zonal (2001) and nodal (2010) markets. We delivered on-time and on-budget the TX SET 1.5 project providing major functional improvements to retail transaction processing systems.



Consultants

Roarke Wells, Rick Jones, Khoi Nguyen, Sean Kauffman and Jeff Hoff

Type

Variety of projects developing custom applications then integrating with and utilizing vendor developed applications (COTS) within an SOA-based infrastructure.

Project Length

Multiple projects spanning approximately 11 yrs.

Tools/Technologies Utilized

Java, SeeBeyond, TIBCO, Apache, Oracle, Sun Solaris, JBoss, Actional Intermediary, Siebel, PaperFree, LodeStar, Unix, Cisco, Cognos, .Net, IIS, Quality Center