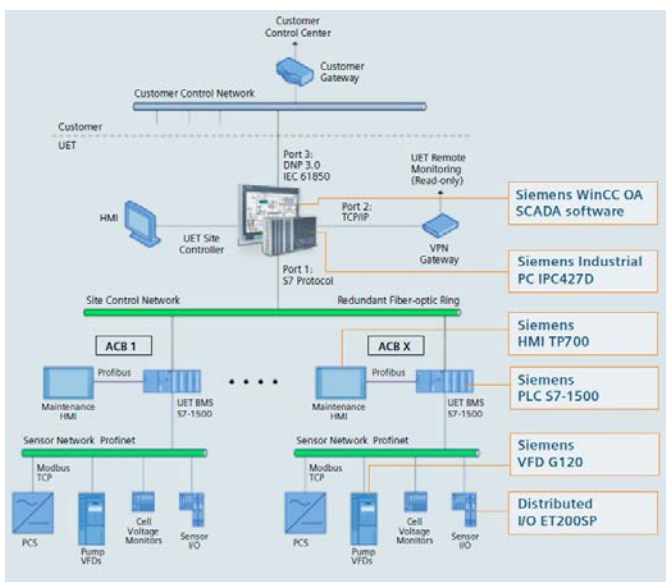


Molecules to Megawatts: WinCC OA Control for Megawatt Energy Storage



Segment: Energy - Batteries
End user: UniEnergy Technologies (UET)
System integrator: Kaasm, LLC
Realization date: 2014

Requirements:

- Develop a comprehensive and highly scalable automated control system for multi-megawatt energy storage using minimum engineering time and cost to ensure fastest time-to-market
- Create a turn-key system which minimize project specific integration work. Providing a single point interface to allow to present a seemingly monolithic resource to the customer

Solution:

- Variety of interfaces and protocols allows us to be flexible to customer requirements and component selection: OPC DA/US, S7, Modbus TCP, IEC 61850, DNP 3.0, and others
- Ultralight client is used as user interface, because it run on any web browser on any OS without requiring any software to be installed on the machine
- Industry standard OPC interface used for centralized data historian

Benefits:

- Time-to-market cut by 50 percent
- Site-specific programming efforts eliminated
- The flexibility of the platform will reduce future engineering costs

UniEnergy Technologies (UET), founded in 2012, is one of the world's top suppliers of energy-storage solutions. From its headquarters and manufacturing facility near Seattle, it makes and sells the Uni.System™. This is a highly scalable, next-generation energy-storage solution for utility, commercial and industrial, microgrid and other applications housed in standard 20-foot shipping containers.

