

ABB Electrical

Power Management Systems for reliable and efficient energy

Is a basic SCADA solution sufficient for the power management of your plant?

Do you want to avoid blackouts and power-related disturbances of operations, reduce energy costs and ensure safety for personnel and the environment?

Are you involved in the design and project lifecycle of Power Management Systems?

Most Power Management Systems or PMS for short, are based on SCADA, which is simply not enough.

In addition to basic SCADA functionality, ABB's PMS offers:

- Reliable power control
- Load-shedding
- Network determination
- Synchronisation

The PMS allows for more critical designs of the electrical equipment in a plant. The system will re-arrange energy generation, import and loading in a way that the individual generators, transformers, and tie-lines will operate well within their specifications. The integrating Motor Control Centres, Protection Units, Governor Controllers, Variable Speed Drives and more, into a seamless system, all communicating with each other.

This session covers the subject broadly, starting with overall concepts, through detailed engineering aspects and functions, concluding with the benefits for the customer.

Who should attend?

This session is aimed at project, electrical, control, instrumentation, maintenance and application engineers and also procurement specialists, who require a general introduction and awareness of PMS solutions.



Benefits of attending

- Introduction for those new to the subject
- Understanding the advantages of PMS solutions
- Overview of different aspects of design
- Brief outline of System 800xA

Topics covered

- What is a Power Management System
- Why is PMS required
- System architecture and alternative names in the world of power
- Integrated Electrical Power Automation
- Different communication languages
- IEC61850 standards and evolution
- Functionalities achieved
- System sizing, hardware introduction and scalability
- Redundancy and error handling

Duration: 1 or 2 hour session followed by optional discussion session or live demonstration

Venue: ABB offices in Cambridgeshire, Aberdeen or customer location