ABB Process Power Manager helps ensure a reliable and stable electricity supply to process industries. It uses ABB System 800xA functions to seamlessly integrate electrical switchgear with the control system. This provides the operator with a complete overview, accelerating decision making and allowing for the optimal use of total power resources.

**Overview:**
Energy-intensive process industries require a reliable, stable energy supply. Unscheduled downtime can result in costs exceeding millions of dollars, potential loss of life, loss of production or damaged equipment.

No matter why downtime occurs, the ability to quickly recover is critical. Prolonged disturbances carry the possibility of negatively affecting the financial, environmental and social performance of a company.

ABB Process Power Manager is a software-based solution that provides total integrated energy management that can range from generator auxiliary systems to generator control and load distribution, as well as a high degree of automated power distribution control.

Operators are able to monitor, manage and maintain functions and assets for power generation, distribution and supply through one interface across all parts of the electrical and process control systems. If disturbances arise, loads will be shed based on their criticality and/or priority (Figure 1), helping to prevent blackouts and optimize energy consumption.

**Benefits:**
- Decreases capex costs with single installation and commissioning, leading to less cabling and a smaller overall footprint
- Reduces downtime by automating reactions based on priority or criticality
- Improves operator efficiency and expedites decision making through an overview of the electrical system
- Provides a more comprehensive overview when integrated with the process control system
- Optimizes electrical network design and minimizes footprint
- Helps ensure faster recovery of power and production after a failure
- Increases energy efficiency to achieve ROI in less than two years
- Enhances safety and mitigates environmental and health impacts

**Figure 1:** Operational priorities of power management from fundamental to desired performance targets.
ABB Process Power Manager
A comprehensive solution for power generation and distribution

Features:
- Seamless integration with ABB System 800xA process and electrical control systems
- Power balancing and predictive planning to avoid disturbances or blackouts
- Remote access of plant equipment for operation, collaboration and diagnostics
- Fast-acting load shedding and recovery
- Scalability to support large, complex electrical systems
- Flexibility to provide automated functions and/or process-dependent functions
- Dynamic trip of loads, which can be preconfigured or manually configured to a set of priorities
- Simulation scenarios provide realistic operator training for daily and/or crisis situations

Criteria required for ABB Process Power Manager:
- ABB System 800xA or 800M process controllers

Services and support:
ABB services and supports power management and electrical integration projects worldwide throughout the complete plant life cycle. Our services include:
- FEED studies and consulting
- Basic and detailed design and engineering
- Project management: risk management, planning, coordination and fulfilment of shipment, installation, testing and commissioning
- On-site services, installation and commissioning
- Operator training and electrical simulation
- ABB Process Power Manager 24/7 watch team

ABB differentiators:
- Seamless integration with existing process control system ensures operators have only one system to manage and maintain
- Expertly trained engineers and a robust resource library
- Continuity of care with one service agreement to interact with for the entire plant: process, electrical and power management
- Proven expertise with more than 30 years of experience in process and electrical control

Figure 2: ABB Process Power Manager provides a comprehensive overview of your power distribution and power generation as well as your auxiliary packages.

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