



# ABB Ability™ Process Power Manager

Ensuring a reliable and stable energy supply

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**The risks and costs of unplanned downtime due to energy supply issues continue to increase for energy-intensive process facilities. Any power disruption can cause devastating losses. ABB Ability™ Process Power Manager ensures reliable and stable electricity supply to process industry plants. With intelligent power balancing and predictive planning capabilities, ABB Ability™ Process Power Manager automates actions to optimize operational efficiency and minimize costs.**

# The high cost of downtime

When energy-intensive process industries experience unscheduled downtime, the tangible cost of the disturbance is typically measured in the millions of dollars. Indirect costs such as safety issues, profit potential losses and under utilization of resources amplify its impact.

Power supply events are among the biggest threats to manufacturers, especially energy-intensive process companies. This threat is intensifying as worldwide energy demand increases.

In today's competitive landscape, no one can afford downtime. When disturbances occur, rapid

recovery is critical. To prevent unscheduled downtime due to energy supply issues, companies in the energy sectors are looking for opportunities to more effectively manage their power supply. Further heightening their desire to achieve better energy management are the following market drivers:

## Market drivers for better energy supply:



**Minimizing unplanned downtime**  
Plants need a reliable energy supply and the ability to quickly restore reactive power to minimize losses.



**Increasing efficiency**  
Escalating operational costs coupled with profitability challenges are forcing producers to become more efficient.



**Managing aging assets**  
Plants need to optimize the life of equipment with better asset utilization.



**Enhancing safety**  
Blackouts and unreliable electricity increase safety risks. With improved power supply reliability, plants can limit exposure to unsafe situations and keep their people and plant safe.



**Leveraging multiple power sources**  
New energy assets within the plant present increased management complexities and risks.



# Features and benefits

## ABB Ability™ Process Power Manager

ABB Ability™ Process Power Manager delivers power management and control of your electrical infrastructure so you can ensure a stable power supply throughout your plant.



**Integration**  
with ABB System 800xA process and electrical control systems



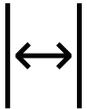
**Power balancing**  
and predictive planning to avoid disturbances or blackouts



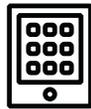
**Remote access**  
of plant equipment for operation, collaboration and diagnostics



**Load shedding**  
and recovery



**Scalability**  
to support large, complex electrical systems



**Flexibility**  
to provide automated functions and/or process-dependent functions



**Dynamic tripping**  
of loads, which can be preconfigured or manually configured to a set of priorities



**Simulation training**  
provide realistic operator training for daily operations and crisis situations

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### Benefits

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**Lowens capex costs** with single installation and commissioning, leading to less cabling and a smaller footprint

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**Increases uptime** by automating reactions based on priority or criticality

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**Improves efficiency** and expedites decision making through an overview of the electrical system

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**Enables better decisions** with comprehensive and deep visibility

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**Improves health & safety** and mitigates environmental impacts

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**Drives ROI** by increasing energy efficiency

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**Minimizes downtime** by ensuring faster recovery of power and production after a failure

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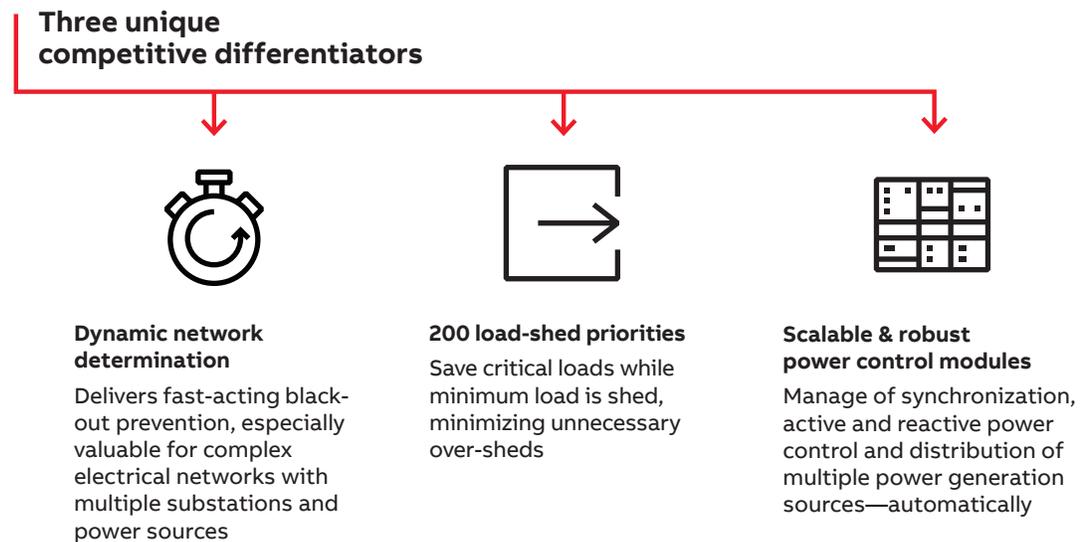
**Optimizes network** and minimizes footprint

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# Total power management and control of your electrical infrastructure

Unlike competing solutions, ABB Ability™ Process Power Manager delivers fast-acting blackout prevention with dynamic network determination, especially for complex electrical networks with multiple substations and power sources.

ABB Ability™ Process Power also supports automated, efficient, stable energy distribution through scalable and robust power control modules—another differentiating benefit.

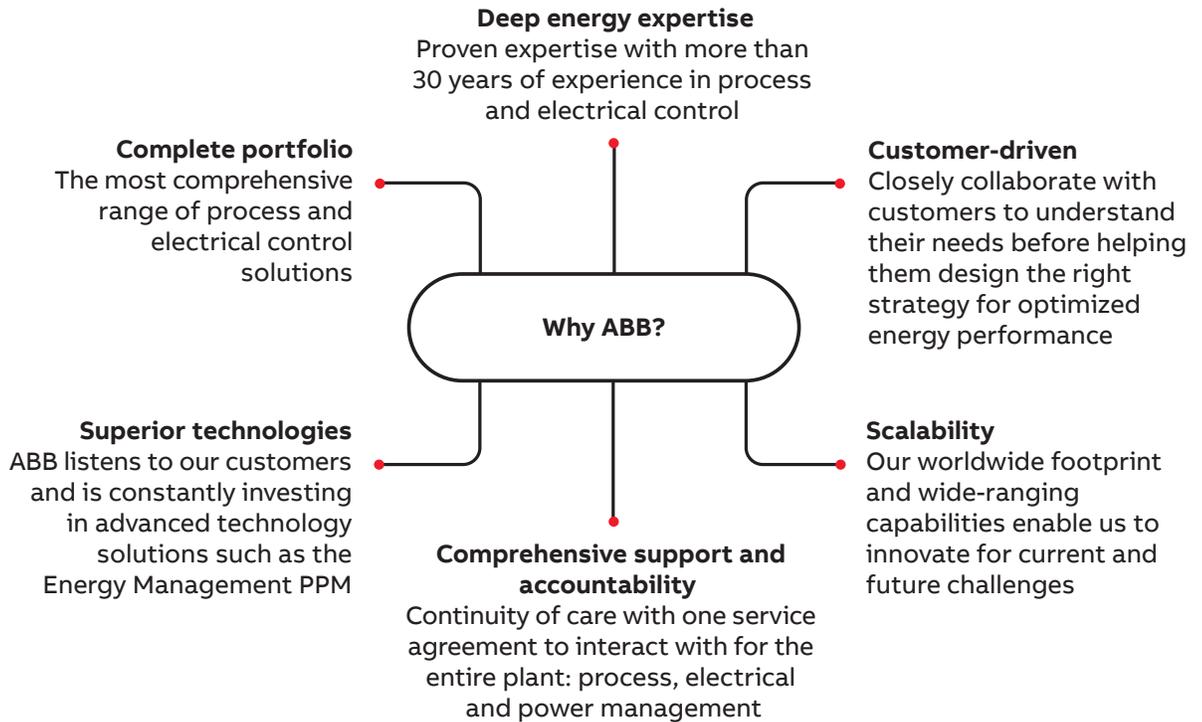


# Why ABB

Deep domain expertise coupled with leading process power technologies delivers superior results

For more than 40 years, we've been helping process industry facilities improve their energy performance. ABB offers seamless integration with existing process control systems so that

your operators have one system to manage and maintain. Customers benefit from having an accountable, single point of contact for the entire plant—process, electrical and power management.





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For more information, please contact:  
ABB Inc.  
Operating in more than 100 countries.  
**[new.abb.com/oil-and-gas/products/  
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