MICROGRID SOLUTIONS

Reliable power wherever and whenever it is required.
PowerStore™
Reliable power wherever and whenever it is required.

PowerStore™

Introducing PowerStore™, our latest Microgrid solution exclusively designed to ensure reliable power availability, grid stability, highest possible penetration of renewable energy into existing grid together with intelligent control system for both grid connected and off-grid systems.

Transformation through smart energy

PowerStore™ is a reliable containerized plug-and-play microgrid solution, available in various ratings with a standardized specification for installations including remote villages as well as industry and utilities. PowerStore™ is the heartbeat of any microgrid and its “Virtual Generator” can form the grid, integrating up to 100% of renewable energy; enabling affordable and reliable power whenever and wherever it is needed.

Seamless transition from grid connection to islanded mode

Meet the challenges for robust power supply in isolation from national grid infrastructure and gain control of your power needs on “local” level.

New developments are accelerating the adoption of affordable Microgrids. Power electronics and energy storage are key. ABB’s plug and play PowerStore™ offers easy transportation, installation and commissioning in one ready to use product, designed and supplied to meet your specifications and requirements.

Flexible and scalable with distributed control system

Specially designed Microgrid Plus control system responsible for efficient and reliable power flow management.

Microgrid Plus control system optimizes use of renewable energy in systems with or without fossil fuel technologies. You can optimize the renewable energy generated and reduce fuel cost. Modular and scalable, distributed logic enhances reliability and scalability for future system expansions.

Reliable and affordable flow of power whenever it is required

PowerStore™ stabilizes an electricity network by rapidly absorbing power surges or by injecting power to make up for short-term decline, in order to maintain high quality.

A compact and versatile grid equalizing system capable of stabilizing power systems against fluctuations in frequency and voltage. This is an especially important challenge in Microgrids with high shares of fluctuating renewables, like wind and solar. We are capable to manage up to 100% renewable energy in the microgrid.

Driving the transition to a carbon neutral tomorrow, today.

PowerStore™ acts as “Virtual Generator” and can form the grid, handling up to 100% of renewable energy.

With our Microgrid Plus control system, PowerStore™ maximizes fossil fuel savings by being able to form the grid without any rotating machine. This further decreases dependency on fossil fuels and delivers cost savings by reducing the financial burden associated with the procurement of fossil fuels.
Running the world without consuming the earth.
Smart energy distribution from ABB.

- **Remote Operation and Maintenance**
  - A comprehensive solution for unmanned sites to increase productivity, improve energy efficiency, reduce operational costs.
  - Management of customers and assets from the remote monitoring web portal.
  - Featuring:
    - Energy production reports and forecasts
    - Condition based monitoring
    - Real time data production
    - List of customers and assets

- **Consulting and Design tools**
  - Our experience, capabilities and tools enable our customers to plan and operate the microgrid reliably at maximum economic benefit.

- **100% Renewable Power Availability**
**PowerStore™ Hybrid**

is for installations that have a power requirement up to 60kW. Designed for remote communities and small industries that have a solar installation or plan to have a solar PV system installed.

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**PowerStore™ 10’ PCS100, Controller with Battery, Coupling Transformer, LV Switchgear & Solar inverter.**

**PowerStore™ Integrated**

is for installations that have a power requirement up to 580kW. Designed for industrial and commercial, institutes and campuses that require peak shaving & reliable power provision.

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**PowerStore™ Station 20’**

is for installations that have a power requirement up to 180kW. Designed for small industrial and commercial applications.

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**PowerStore™ Station**

is for installations that have a power requirement up to 1160kW. Designed for Island utilities, Industry and commercial applications and urban communities.

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**PowerStore™ Station 20’ PCS100, Controller, Battery & Coupling Transformer.**

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**PowerStore™ Hybrid 10’**

is for installations that have a power requirement up to 60kW. Designed for remote communities and small industries that have a solar installation or plan to have a solar PV system installed.

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**PowerStore™ Standalone**

is for installations that have a power requirement up to 1160kW. Designed for Island utilities, Industry and commercial applications and urban communities.

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**PowerStore™ Standalone 20’ PCS100 & Controller.**

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**PowerStore™ Standalone 20’**

is for installations that have a power requirement up to 1160kW. Designed for Island utilities, Industry and commercial applications and urban communities.

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**PowerStore™ Standalone**

is for installations that have a power requirement up to 1160kW. Designed for Island utilities, Industry and commercial applications and urban communities.

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**PowerStore™ Integrated**

is for installations that have a power requirement up to 580kW. Designed for industrial and commercial, institutes and campuses that require peak shaving & reliable power provision.

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**PowerStore™ Integrated 40’**

is for installations that have a power requirement up to 580kW. Designed for industrial and commercial, institutes and campuses that require peak shaving & reliable power provision.

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**PowerStore™ Hybrid**

is for installations that have a power requirement up to 60kW. Designed for remote communities and small industries that have a solar installation or plan to have a solar PV system installed.