

The background image is a collage of three renewable energy sources. In the foreground, there are rows of blue solar panels. In the middle ground, a large concrete dam is visible, with a body of water in front of it. In the background, two large wind turbines with white towers and blue-tipped blades are set against a clear blue sky with some light clouds. The overall scene represents a sustainable and integrated energy system.

Buildings as a Grid Products and solution

EATON

Powering Business Worldwide

Energy Transition

More and more people, buildings and facilities connect to the grid around the world. How can you be sure there will still be power for your buildings or your facility when you need it?

Renewable energy sources are good for the environment and you may already have solar panels or a wind farm installed near by. But how do you access clean energy when there is no sun or wind?

Buildings are becoming energy hubs. You need to be prepared for the future – install EV chargers or leverage renewable energy produced on site while managing the energy flow and planning power capacity.

Buildings as a Grid infrastructure combines local power generation, energy storage and intelligent control to deliver the maximum benefit from your energy system.

You can leverage existing energy infrastructure with a modular approach that can easily scale to meet changing energy needs. Enabling building owners to balance sustainability, affordability and reliability through flexible energy systems.

Our solution



Energy Storage



**Electric vehicle
charging
infrastructure**



**Power
distribution**



**Energy
management
system**

Energy Storage

xStorage Compact | Eaton

Eaton xStorage Compact enables property owners and facility managers to tackle the challenges of energy management for their small to medium-sized commercial and industrial sites. The system is a complete energy storage solution in a single rack that fits into any confined space. It helps increase local consumption of renewable energy, integrate on-site electric vehicle charging infrastructure, and support a wide range of applications such as emergency power supply, peak load shaving, load shifting, and frequency regulation.



Energy Storage & self-consumption



Peak shaving & load shifting



Modular & Scalable configurations

xStorage Hybrid (Available January 2025)

The xStorage Hybrid is a battery energy storage system that combines the efficiency of a PV inverter with the diverse capabilities of a battery-powered energy storage system. The single and three-phase inverters are suitable for multi-residential and light commercial properties. With its 10 000 life/cycles and a large range of temperature (-10 to +50) our LFP Battery is one of the best on the market, for internal and external (IP65) installations and is expandable by multiple 5.12 kWh units up to 25 kWh or 40 kWh.



Hybrid inverter & Outdoor solution IP 65



Self-consumption & load shifting



Plug & Play, easy installation

EV Charging Solutions

Green Motion Building | Eaton

Eaton Green Motion Building is an advanced AC charging station for electric vehicles, meticulously designed for both indoor and outdoor use in private and public parking areas of multi-family residences, small commercial enterprises, and industrial facilities. It is smart charging compliant and capable of load balancing up to 50 charging stations directly, this versatile charging solution ensures seamless integration and optimal performance, making it the ideal choice for modern energy management needs.



**Static and Dynamic
load balancing
capabilities**



**Power
3.7 kW, 7.4 kW,
11 kW and 22kW**



**Wall, Ceiling or
Floor mount**

Green Motion Duo (Available in 2025)

Green Motion Duo is a dual output AC charger that allows you to halve the number of EV chargers required, saving costs on devices, installation, and space. It is smart charging compliant and ISO15118 certified, ensuring seamless integration with modern electric vehicle standards. Its built-in payment terminal opens new revenue streams, allowing users to pay directly at the charger. Load balancing distributes energy between chargers equally or based on prioritization, reducing costs by enabling EV charging infrastructure installation without expensive grid upgrades. The master-node architecture supports scalable network expansion, and full OCPP compliance ensures easy integration with existing software and backends, simplifying the management and monitoring of the charging infrastructure.



**Dual AC charger &
ISO 15118 certified**



**Static & Dynamic load
balancing capabilities**



**Wall, floor & ceiling
mount**

Green Motion DC 22 | Eaton

Eaton Green Motion DC 22 is a 22 kW charging solution engineered for fast charging of electric vehicles. This user-friendly station ensures secure identification through RFID and is smart charging compliant ensuring optimal energy use and efficiency. The charger has a 10-inch color touchscreen which provides clear and easy-to-read information. This charger has both CCS and CHAdeMO cables for seamless integration with all types of Electric Vehicles.



Efficiency over 96%



CCS & ChadeMo cables



Wall mount, Floor mount & Mobile

Green Motion DC 44/66 | Eaton

Eaton Green Motion DC 44 and DC 66 are rapid charging stations designed to meet the demands of modern electric vehicle charging in both public and private parking facilities. With powerful 44 kW and 66 kW options, these stations bypass the limitations of on-board chargers by delivering power directly to the vehicle's battery. They are smart charging compliant ensuring optimal energy use and efficiency. They have over 96% charging efficiency and low standby consumption which significantly reduces overall operating costs. Additionally, its advanced safety features such as anti-tamper detection, galvanic isolation, and cutting-edge cybersecurity technology guarantee a safe and secure charging experience.



Efficiency over 96%



Compact and easy to use



CCS & ChadeMo cables

Green Motion DC 30 and DC 60 (Available in 2025)

Green Motion DC 30 and DC 60 are 30kW and 60kW DC fast EV charging stations designed to meet the demands of modern electric vehicles. These chargers feature a built-in, secure payment terminal, allowing users to conveniently pay at the charging station after their sessions. They have load balancing capabilities which ensures efficient energy distribution. With smart charging compliance and ISO15118 certification, they integrate seamlessly with contemporary EV standards. The built-in secure payment terminal and RFID card reader allow for convenient user payments directly at the station. The inclusion of a MID meter ensures accurate energy measurement. Safety and protection are paramount, with features such as short circuit, overload, surge protection, and emergency stop. The user-friendly 10" display screen provides clear information and control options.



Load balancing capabilities & ISO 15118 certified



Built-in payment terminal with RFID reader



User friendly 10" screen & MID meter

BG Simulator

Eaton's Building as a Grid Simulator offers significant benefits by helping clients and designers optimize the technical, financial, and environmental design of their building's electrical infrastructure. As projects become technically more complicated and grid capacity comes under pressure, this simulator assesses energy load profiles, grid connection size potential, local renewable energy sources, and energy storage. It addresses the increasing complexity of buildings having more than one source of electrical energy and the rapid growth in demand for heat and transport electrification, which alters demand patterns. By doing so, it helps stakeholders maximize the potential of their buildings for investors, operators, occupants, and facility managers. Additionally, as stakeholders and business cases become more complex, the simulator provides a comprehensive tool to navigate these challenges effectively.



[Click here to download an example report today - Buildings as a Grid | Simulation Report | Eaton](#)



Eaton is committed to ensuring that reliable, efficient, and safe energy is available when it is needed most. With unparalleled expertise in electrical energy and cross-industry management, Eaton's experts deliver customised, integrated solutions for our customers' most critical challenges.

Learn more
[**Eaton.com/Buildings**](https://Eaton.com/Buildings)

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