

xStorage Home

xStorage Home Brochure



EATON
Powering Business Worldwide

NISSAN
MOTOR CORPORATION

Get ready for rising energy challenges

More and more people, factories, businesses connect to the grid around the world. How can you be sure there will still be power for you and your family when you need it?

Fossil fuels are phasing out. What will be your reliable energy supply in the future?

Renewables are good for the climate and you may already have solar panels installed on your roof. But how do you access clean energy when there is no sun or no wind?

This is where xStorage Home can help

xStorage Home is an energy storage system developed for your home that selects the optimum energy mix according to what you need to power up, the demand on the grid and the availability of renewable energy.





Discover xStorage Home

Home battery storage systems consist of a power conversion system (inverter) combined with lithium-ion batteries and associated electrical control, protection and distribution devices.

xStorage Home combines power electronics from global power management leader Eaton with new or used lithium-ion batteries from Nissan LEAF electric vehicles.

It can be installed in a home as a hub for incoming and outgoing power, connecting renewable and grid power to the home and can, in some cases, even support integration with electric vehicle batteries when parked overnight.

Stored energy can be used throughout the day, but is particularly valuable either when the sun is no longer shining, or when grid electricity prices are highest.



Here is how it helps you maximize your solar energy consumption

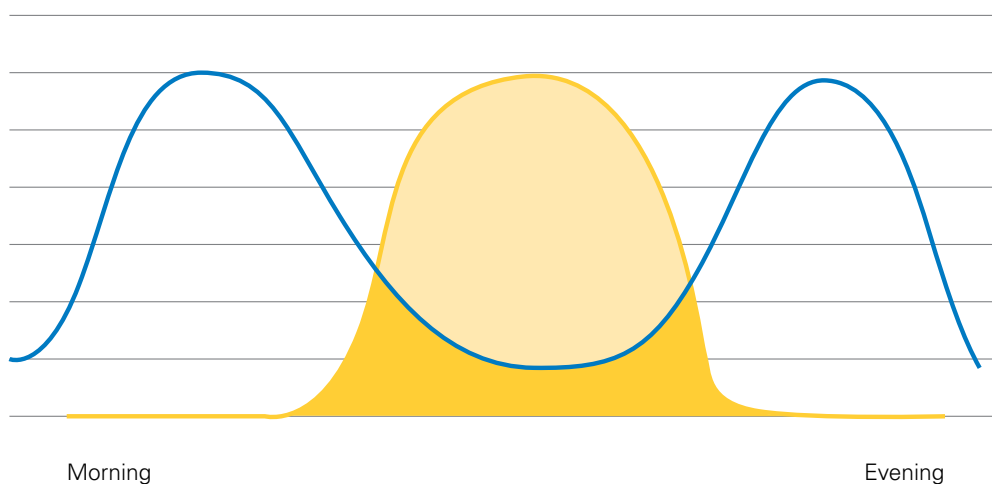
During the day when the sun is shining, xStorage Home powers the load directly with renewable energy thereby lowering your energy costs. It can also charge the battery with renewable energy if you're not at home for use later in the evening when you're back home.

In the evening, it is peak time as everybody is back at home and needs power. xStorage Home uses the energy stored in the battery to power the load.

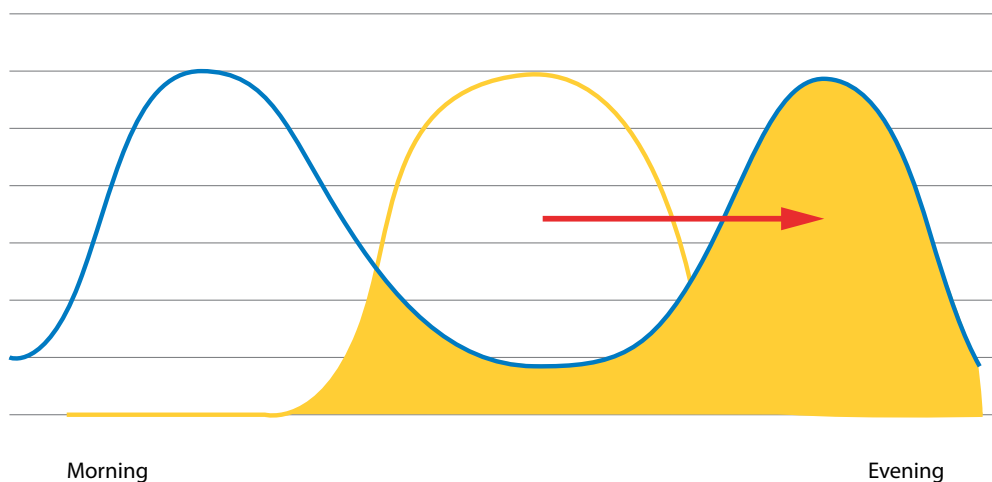
If the energy demand is very high, it can also release it to the grid to support the needs of other households.

In a nutshell, here is what happens in a day:

Solar self-consumption without energy storage



Solar self-consumption with energy storage



— Energy consumption — PV production ■ Self-consumption

What xStorage Home can do for you

Plugged to a solar panel and the public grid, xStorage Home allows you to:



Save money

xStorage Home can save on energy bills by using more solar and harvesting cheap off-peak electricity.



Be more energy independent

xStorage Home puts you in control of your energy, either maximising self-generated solar power, or choosing when to charge from the grid based on variable pricing tariffs.



Keep the lights on

xStorage Home can provide your house with energy if the grid fails, powering your lights and security systems.



Lower your CO₂ footprint

xStorage Home provides solar power storage - harvesting energy produced during the day to use morning, noon and night.



Optimize your energy easily

Once set-up by a certified installer, the unit is ready to go and can be plugged in and powered up simply and easily.



Stay safe

xStorage Home battery systems have been developed to meet the highest electrical safety standards. Eaton is a global power management leader working with highly qualified installers.



Your energy at a glance

Through the friendly user interface, you can easily have an overview of your photovoltaic energy production, your house power consumption, your battery state of charge as well as your critical and non-critical load consumption.



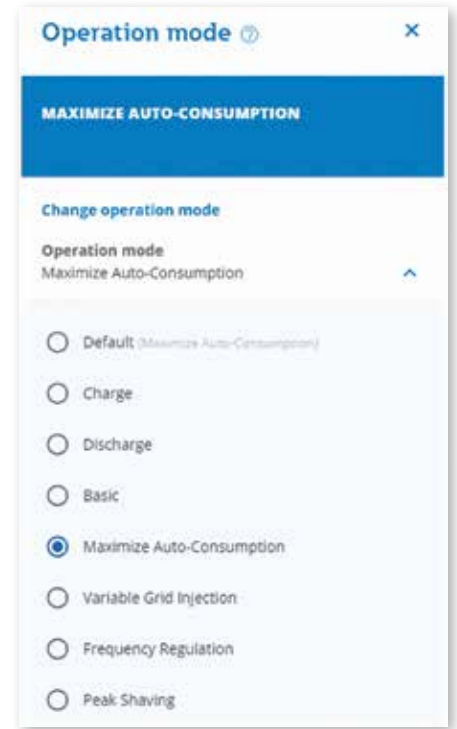
Tailored to your needs

You can decide the level of engagement you want in regards to your energy management, from the manual operating modes where you can customise the parameters yourself to the intelligent operating modes that run automatically for you.

xStorage Home has 4 intelligent operating modes available:

- Maximise Auto-Consumption;
- Peak-Shaving;
- Variable Grid Injection;
- Frequency Regulation (for Aggregator or Utility).

Some operating modes may not be available in all countries.



Rely on Eaton and a trusted network of installers



Eaton is a 100 year power management company with a depth of experience unmatched by most energy storage system providers.

We have selected and certified highly qualified installers to ensure you optimize your energy in a way that is safe, reliable and sustainable. You can find your closest installer on eaton.com/xstorage.

Get in touch

We would love to hear from you and help you optimize your energy.

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