

ContainerPower Energy Solutions

Can home energy storage pay for itself



Overview

With the right setup, a home battery can pay for itself within 5–10 years while increasing your home's value and reducing reliance on the grid. Can energy storage save you money?

If you have a renewable electricity generator like solar panels or a wind turbine, installing energy storage will save you money on your electricity bills. You need to weigh the potential savings against the cost of installation and how long the battery will last.

How much does the energy storage system cost?

The energy storage system is a 4MW, 32MWh NaS battery consisting of 80 modules, each weighing 3 600 kg. The total cost of the battery system was USD 25 million and included USD 10 million for construction of the building to house the batteries (built by Burns & McDonnell) and the new substation at Alamito Creek.

Why do you need a home battery?

With a home battery, you can optimise your electricity needs and purchases. As a producer: In addition, with a potential capacity-based pricing system (see below), the home battery can be used to limit consumption peaks on the network and benefit from a lower tariff.

How does a home battery grant work?

With this grant, the investment in a home battery can be paid off. In addition, you can benefit from 6% VAT instead of 21% for the installation of a domestic battery if your home meets the conditions (over 10 years old). If you install photovoltaic panels and a battery at the same time, only one hybrid type inverter will be needed.

How many kWh can a battery store?

The available batteries can store between 3 and 20.5 kWh with 5 to 6 kW of

power. As an indication, the average consumption of a household (in Brussels with 4 people) is 9.5 kWh/day. The batteries currently being manufactured are guaranteed to work for at least 10 years, even with intensive use.

Do you need a home battery?

However, you need to know that your home battery will not allow you to get through the whole winter on your own reserves. A home battery is used simply to bridge the gap from one day to the next. 2. For your wallet With a home battery, you can optimise your electricity needs and purchases. As a producer:

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