INCREASE THE VALUE OF YOUR FLEXIBLE RESOURCES

By connecting your battery to CheckWatt, you maximize its profitability — while at the same time contributing to a more efficient and reliable power system.

WITH CHECKWATT, YOUR BATTERY REACHES ITS FULL POTENTIAL

A battery is versatile. It can be used in a home to reduce electricity costs by shifting consumption to low-price hours, increasing solar self-consumption or by lowering peak power demands.

By connecting to CheckWatt's virtual power plant, we also enable your battery to offer services to various actors in the electricity system — ancillary services to the national transmission operator — Fingrid in Finland, Energinet in Denmark and Svenska kraftnät in Sweden — flexibility to local grid owners, as well as trading on different electricity markets. Being able to offer these services increases the profitability compared to using the battery solely for the property's own needs.



WHAT CHECKWATT DOES FOR YOU

Optimization of charging and discharging to

maximize the profitability of the battery at every given hour. The optimization is based on both the value created within the property and through system services to the grid.

Testing and pre-qualification with actors such as the transmission system operator to ensure resources meet the technical requirements for each service. "Aggregation" of resources so they collectively meet the minimum bid size on various markets.

Bidding, revenue

management, oand monitoring to ensure that the flexibility is delivered according to the various agreements.

OcheckWatt



HOW TO CONNECT TO CHECKWATT'S SERVICES

You begin by placing an order with one of CheckWatt's **installation partner**s.



You can monitor your battery system and earnings through our web portal **EnergyInBalance.**



CheckWatt's installation partner will set up a **CM10**, a physical device, which connects to your battery system and to the internet. This typically takes about an hour for an electrician.



It will then be connected to our virtual power plant **Currently**, which performs forecasting and control based on various price signals. The system will then start to generate revenue.

A few days later, CheckWatt or your installation partner will **configure the system**.

We have experience controlling, monitoring, and delivering ancillary services from over 10,000 battery systems

With CheckWatt as a supplier you get access to our experience having prequalified and connected most battery systems of any aggregator in the Nordics. This enables us to improve our products and services in line with market developments. We are also compatible with the most <u>common</u> <u>brands of inverters and batteries on the market</u>.



BENEFITS YOUR BATTERY CAN CREATE THROUGH CHECKWATT'S VIRTUAL POWER PLANT

Ancillary Services

To maintain balance in the electricity system, the Nordic Transmission System Operators procure several types of ancillary services. Batteries contribute by delivering services like FCR-D, FCR-N, and mFRR. Ancillary services is, overall, currently the most profitable use case for batteries.

Energy Arbitrage

Batteries can profit from the price differences in electricity, buying when prices are low and using or selling when prices are high. This can either be done by a homeowner on a time-of-use contract or through CheckWatt by trading directly with the electricity stored in the battery via a balance responsible party.

Local Flexibility

In certain areas, local grid owners procure flexibility during the coldest days of the year. It only happens a few hours per year, but these are often well-paid. Within a couple of years — driven by legislation in the EU and an increasingly rapid electrification — it is likely that all grid companies will need to purchase flexibility to avoid unnecessarily expensive grid expansion

Services within the property

There are several ways batteries can add value in homes, such as storing self-produced solar power and reducing peak power demands. While savings from these services are comparatively low, they play an important role ensuring stable income and cost savings compared to other services, which are likely to be more volatile.



How do earnings compare to batteries not connected to CheckWatt?



A 10 kW / 10 kWh battery system in the Stockholm area. CheckWatt's control in this case increased the profit by around 300 percent. The calculation takes into account a performance-based fee of 20 percent of the value created as well as a monthly fee of \notin 5. The income generated is proportional to the peak power of the system in kW, meaning a ten times bigger system will give ten times higher earnings.

For a customer who used CheckWatt to deliver ancillary services between July and October 2024 in the Stockholm area, earnings amounted to around €170. In comparison, a battery that relied solely on its inverter's built-in functionality increasing self-consumption as well as charging during low-price hours and discharging during high-price hours, achieved savings below €45 for the same period. The exact revenue will vary depending on prices for power and ancillary services locally, as well as rules and regulations in various markets.

