

Helsinki benefits of energy storage

This study presents the first performance results of a large battery energy storage system (BESS) that is connected to a medium-voltage distribution network and used simultaneously by multiple stakeholders.

This paper presents results how an industrial-sized battery energy storage has been tested in an urban distribution network in order to improve local power quality. The power quality cases are compensation of reactive power in a distribution area and two cases of moderating rapidly altering electricity usage: a metro train load and a production ...

Advantages of a BESS for FCR include e.g. extremely fast reaction time and flexible modification of the control curves. The reaction time of a BESS to achieve full power is few hundreds of milliseconds compared to traditional reserve power suppliers' tens of seconds.

Large penetration of electrical energy storage (EES) units and renewable energy resources in distribution systems can help to improve network profiles (e.g. bus voltage and branch current...

Helsinki's Hot Heart will use electric energy when it is cheap, contributing to balancing the national grid as it moves toward a higher percentage of renewable energy generation.

If you run a business or property that doesn't operate 24/7, your energy demand only rises during working hours. Cactus One charges when electricity is cheap and discharges when you need it most during the expensive hours. This way you can lower the electricity bills.

Cactus One stores locally produced green electricity, such as from solar panels, and uses this emission-free electricity during periods when it's most needed - cloudy, windless days or when energy prices are especially high. This gives you greater energy independence.

Cactus One acts as an active backup power source, anticipating future events using AI and machine learning by continually monitoring live and historic data. Like a crystal ball, it can prepare for power outages in advance, ensuring no loss of electricity at your facilities.

When the localised consumption causes a significant spike in the load curve, you could end up with an imbalanced grid and a higher energy bill. Cactus One levels out those load spikes for you by using stored electricity without disruptions to your schedules or production.

Spiralling costs and market turbulence have become everyday topics. Cactus One energy storage units back up your business or property by enabling access to the most affordable and consistent energy available 24/7. The units are built using fully operational, recycled electric vehicle batteries, further reducing environmental



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impact. Whether you run a small, local business, represent a governmental entity or an industrial enterprise, Cactus One can help you store and optimise your energy, offer backup and cut costs just by running in the background. It's the unit you now know you need.

We offer a full service, not just a set of batteries. Once your units are set up and running, you'll gain access to Cactus Spine - our very own energy software through which all of your property's critical info can easily be tracked in real time via your personal dashboard. You can find system status, consumption and production data as well as other key metrics all in one place. We like to think of One as the body and Spine as the brain.

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