

## European Solar and Energy Storage Solutions

# Pitcairn Islands cactus battery

### HEAT DISSIPATION

Cold aisle containment,  
making optimal refrigeration effect;



## Overview

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Can solar energy replace fossil fuels on Pitcairn Island?

Pitcairn's authorities have launched a renewable energy project designed to replace fossil fuels with solar energy. The goal is to replace 95% of the current diesel consumption on Pitcairn Island (75,000 liters per year) with a combination of energy saving and solar electricity through the installation of a hybrid photovoltaic solar energy system.

Are cactus batteries still useful?

When Cactus launched in 2021, second-life batteries were the most cost-effective component for BESS applications. But today, new lithium iron phosphate cells have become cheap enough to replace the old Teslas in most new storage units. Nonetheless, the elderly batteries still play a useful role.

Does cactus have a second-life battery?

With the new cash injection, Cactus plans to build a portfolio of over 1,000 storage systems. For the Tesla batteries, however, the second job is not guaranteed forever. When Cactus launched in 2021, second-life batteries were the most cost-effective component for BESS applications.

Are the Pitcairn Islands Green?

Pitcairn Islands, a group of five islands with a total area of 47 km<sup>2</sup> and which constitute one of the most remote archipelagos in the world, turn to safer, greener energies that best meet the needs of the population. Pitcairn's authorities have launched a renewable energy project designed to replace fossil fuels with solar energy.

Is cactus reconditioning Tesla EV batteries?

Best known for its reconditioning and use of spent Tesla EV batteries as source material for its BESS systems, Cactus now has aspirations far larger. Cactus, a Helsinki-based battery energy storage systems (BESS) startup has

raised over €26 million in equity capital as part of a larger €70 million investment project.

Does cactus offer fresh lithium phosphate batteries?

Perhaps best known for its innovative reconditioning and use of spent Tesla EV batteries as source material for the company's first market offer, Cactus now also offers fresh lithium iron phosphate batteries as part of its lineup.

## Pitcairn Islands cactus battery

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### The startup giving EV batteries a second life as energy storage

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Built in the startup's factory in Muhos, Finland, Cactus offers two "Cactus One Energy Storages" -- the first, the "Classic," which is made from spent Tesla batteries and has a capacity of 100 kWh and power of 45 kW per unit, and the second, the "Cactus One Cardo," which is built from a new lithium iron phosphate (LFP) batteries

## History of the Pitcairn Islands

The earliest known settlers of the Pitcairn Islands were Polynesians who appear to have settled on Pitcairn and Henderson Islands by at least the 11th Century, [1] and on the more populous Mangareva Island 540 kilometres (340 mi) to the northwest, for several centuries. These first inhabitants may have maintained a trading relationship with Mangareva, in which they ...



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## Ostrova Pitke`rn -- Vikipediya

Karta Ostrovov Pitke`rn. Ostrova? Pi?tke`rn (angl. The Pitcairn Islands, [ð ? ? p ? t k e r n ' a ? l ? n d z], pitk. Pitkern Ailen) -- edinstvennaya zamorskaya territoriya Velikobritanii v Tixom okeane. Vključaet v sebya pyat` ostrovov, odin iz kotory`x



## Helsinki-based startup Cactus secures over EUR26M for ...

Dubbed Cactus Spine, the platform is able to create an optimized matrix of battery units that offer clients including logistics company Logitri

Test certification  
CE   



Oy, protection against electricity price volatility,  
level out local demand ...

## Storing energy becomes effortless and sustainable with

...

They developed Cactus One, a unit that can store up to 100 kW/h of electricity. Like cactuses store and optimize water usage, so does Cactus' unit, which makes efficient use of energy, bringing advantages to ...



## The Pitcairn Islands: Perfect Odyssey Across The World's Most

Adamstown , Image credit: Balou46, CC BY-SA 4.0, via Wikimedia Commons Adamstown: The capital city and the island's only settlement, Adamstown is where you can meet the locals and learn more about Pitcairn Island's history. You can stroll around the town and explore the market area, the post office and the treasury. Pitcairn Islands Museum: Another ...

## Cactus raises over EUR26 million to increase BESS portfolio

Cactus, a developer of smart energy storage systems, has raised over EUR26 million worth of

equity investments in its Cactus Fleet Finland Limited Partnership to finance the growth of its battery energy storage system ...



## Tesla EV battery packs repurposed into energy storage systems in

The money will go towards productising the firm's enclosure system into second and third iterations, certify its product to thermal runaway test certification UL 9540A and its manufacturing facility to UL 1974, a certification specifically for second life energy storage systems (ESS), he added.. Its current product, MOAB, is a 250kW/500kWh system that uses ...



## Pitcairnsaaret - Wikipedia

Pitcairnsaaret [1] (englanniksi Pitcairn Islands, pitcairniksi Pitkern Ailen) on neljästä saaresta (asuttu Pitcairn, asumattomat Oeno Island, Hendersoninsaari ja Ducie Island) koostuva saariryhmä eteläisellä Tyynellä valtamerellä, suurin piirtein Uuden-Seelannin ja Perun välisen matkan puolivälissä. Se on Britannian viimeinen siirtomaa Tyynellämerellä.

## Cactus raises over EUR26 million to increase BESS portfolio

Cactus, a developer of smart energy storage



systems, has raised over EUR26 million worth of equity investments in its Cactus Fleet Finland Limited Partnership to finance the growth of its battery energy storage system (BESS) portfolio. Lead investors in the round are OP Finland Infrastructure LP and the Finnish Climate Fund.

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## Battery Energy Storage System (BESS)

In a time of heightened awareness of the need for energy security at local, national and international levels, battery energy storage systems, such as the Cactus One, offers a localised solution for businesses and consumers to ensure back-up of their electricity supply in the event of outages and interruptions due to unforeseen events, as well



## Kepulauan Pitcairn

Kepulauan Pitcairn, resminya bernama Kepulauan Pitcairn, Henderson, Ducie dan Oeno, adalah kumpulan dari empat pulau-pulau vulkanis di selatan Samudera Pasifik. Keempat pulau tersebut tersebar beberapa ratus mil di samudera pasifik dan memiliki daratan yang kalau digabungkan luasnya menjadi 47 hektar





## Storing energy becomes effortless and sustainable with Cactus

They developed Cactus One, a unit that can store up to 100 kW/h of electricity. Like cactuses store and optimize water usage, so does Cactus' unit, which makes efficient use of energy, bringing advantages to users - mostly building owners - and grid operators.



## The role of Battery Energy Storage Systems (BESS) in securing

Battery storage systems can be used for numerous roles in terms of grid services and localised uses. From a Grid services perspective, these applications range, from short-term balancing of supply and demand, to restoring grid operation following a blackout, to providing operating reserves or deferring investment in new transmission and



## Helsinki-based startup Cactus secures over EUR26M for BESS

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Dubbed Cactus Spine, the platform is able to

create an optimized matrix of battery units that offer clients including logistics company Logitri Oy, protection against electricity price volatility, level out local demand peaks, offer backup power, and where applicable, optimise the use of the property's own electricity production.



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