

## European Solar and Energy Storage Solutions

# Blackhillock bess Saint Barthélemy



## Overview

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What is the Blackhillock battery project?

The 300MW Blackhillock storage project will be the first battery in the world to deliver stability services using a transmission-connected battery. (Credit: Zenobē Energy Limited) The battery system will be located in Blackhillock, Scotland. (Credit: Zenobē Energy Limited)) Wärtsilä will supply a 200MW/400MWh energy storage system for the project.

What will Blackhillock be?

When fully built, Blackhillock will be a 300MW / 600MWh project. It will be the first to provide the full suite of active and reactive power services in the world and will be the largest transmission connected battery in Europe when commissioned.

What is the Blackhillock storage project?

It is also the first project to be delivered under the National Grid's NOA Stability Pathfinder programme that aims to address stability issues in the electricity system. The Blackhillock storage project will be located between Aberdeen and Inverness in Blackhillock, Scotland.

## Blackhillock bess Saint Barthélemy

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### Zenob? secures £147 million of project finance debt to advance ...

In February 2023, Zenob? began construction of Blackhillock, a 300MW/600MWh BESS once fully built, that will be the first in the world to deliver Stability Services using a transmission-connected battery. It will provide short-circuit level and inertia, essential for the grid to function efficiently as fossil fuel plants phase out, and ease

### Blackhillock Substation

An underground HVDC electricity cable from Blackhillock to Portgordon The new substation will be capable of carrying up to 1200MW of electricity between Caithness and Moray. It is made up of eight bays of 132kV Gas Insulated Switchgear (GIS), thirteen bays of 275kV Air Insulated Switchgear (AIS) and ten bays of 400kV Gas Insulated Switchgear



### Zenob? begins construction of three Scottish battery ...

International EV fleet and battery storage specialist Zenob? has today announced that construction has begun on three battery storage projects at Blackhillock, Kilmarnock South and Eccles in Scotland, which will ...



## Blackhillock Ltd

Blackhillock Flexpower Ltd. A 349 MW Battery Energy Storage Site located in Blackhillock, Scotland and connecting into the existing Blackhillock substation. It is our future! A renewable grid needs BESS for: Frequency regulation; Stabilisation of voltage; Instant response to 'events' (inertia) Energy buffering (enabling renewable penetration)



## Blackhillock Battery Energy Storage Facility , BG& E

The BESS is a 300MW/600MWh energy storage facility located in Scotland, UK. The BESS comprises 49 battery storage units, an HV transformer compound, up to two HV transformer units and two MV switch rooms, two synchronous compensators compound, four LV switch rooms and aux transformer, a control room, modular buildings, and a DNO building.

## Zenob? breaks ground on pioneering 300MW battery project in Blackhillock

When fully built, Blackhillock will be a 300MW / 600MWh project. It will be the first to provide the full suite of active and reactive power services in the world and will be the largest transmission connected battery in Europe when commissioned.



## Zenob? begins construction of 300MW battery energy storage

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Zenob? Energy has started construction of a 300MW/600MWh battery energy storage project



in Blackhillock, Scotland, following the news earlier this week of a £235 million long-term debt facility secured from five banks.. The project, which will be situated between Aberdeen and Inverness, will be the first in the world to deliver stability services using a ...

## Field to build 40MWh battery storage site in South Wales

ILI Group granted consent for 100MW Ayrshire BESS. Changes to balancing and settlement code support large energy storage facilities. Upcoming Events. Solar Finance & Investment Europe 2025. 4 February 2025. London, UK. Energy Storage Summit 2025. 17 February 2025. London, UK. PV CellTech Europe 2025.



## Zenob? breaks ground on pioneering 300MW battery ...

When fully built, Blackhillock will be a 300MW / 600MWh project. It will be the first to provide the full suite of active and reactive power services in the world and will be the largest transmission connected battery in ...

## Energy Storage Awards 2024: Winners revealed

Zenob?'s 300MW/600MWh Blackhillock project in Scotland, featuring a pioneering grid-forming advanced inverter technology, was awarded the Best UK Project Over 100MW prize. Zenob? Energy's Semih Oztreves and Georgina Morris (centre) as the company collected the Best UK

Project Over 100MW from Solar Media Market Research analyst ...



### Zenob? battery project reaches pivotal electrification ...

Once built, the Blackhillock site will provide a capability of 300 MW/600 MWh and the first full suite of active and reactive power services to be witnessed globally. In line with the sustainable credentials of the project, ...



### Zenob? reaches financial close on Phase 1 of world's first 300 MW

Ground is being broken at Blackhillock, between Aberdeen & Inverness, to deliver the first 200MW of a planned 300MW storage project. Zenob? say it's the world's first battery designed to deliver stability services using a direct connection into a transmission network. The project's tech, from a consortium including Wärtsilä, H& MV, inverter makers SMA Solar ...

LPSB48V400H  
48V or 51.2V



### UK's Zenob? Energy gets US\$285 million financing, ...

Zenob? Energy has started construction of a 300MW/600MWh battery energy storage project in Blackhillock, Scotland. The announcement comes shortly after the UK energy storage and e-

mobility specialist secured a ...



## Zenob? commences construction of its Kilmarnock South battery ...

In February 2023, Zenob? began construction of Blackhillock, a 300MW/600MWh BESS once fully built, that will be the first in the world to deliver Stability Services using a transmission-connected battery. It will provide short-circuit level and inertia, essential for the grid to function efficiently as fossil fuel plants phase out, and ease



 LFP 280Ah C&I

## Zenob? wins Battery Energy Storage System financing accolade at

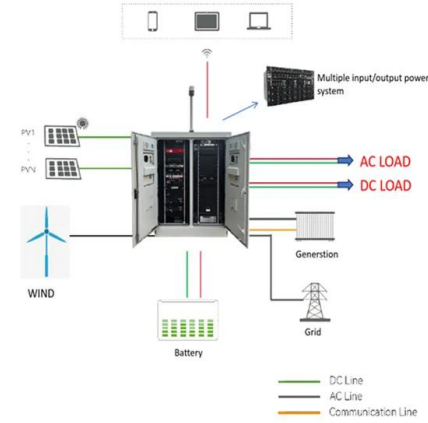
The first phases of Zenob ?'s Blackhillock and Kilmarnock South battery energy storage system (BESS) projects have been awarded European Transaction of the Year in the BESS category of the IJGlobal ESG Awards 2023.



## Zenobe reaches fin close on 300-MW Scottish BESS project

Zenobe, which recently secured an investment from KKR and Mubadala-backed Infracapital, has a 1.2-GW portfolio of BESS projects in Scotland.

According to its estimates, the operation of these assets will bring up to GBP 1 billion in energy cost savings over 15 years. (GBP 1.0 = 1.270/EUR 1.173) Sector. Energy Storage.



## Kilmarnock South Battery Energy Storage System

Zenob?'s BESS site in Blackhillock, Scotland nearing energisation. The Kilmarnock South BESS will deliver essential services to run the UK's electricity network more efficiently for the next 40 years. (BESS) that maximise the uptake of renewable power, ensuring it does not go to waste and can power our homes and our transport.

## Zenob? secures £147 million; starts building on 600MWh BESS

It is worth noting that Zenob? has a second large-scale BESS project in Scotland currently in development near Blackhillock. Construction started in February 2023 with the first phase (200MW/400MW) due to go live in Summer 2024 with the second phase (an additional 100MW) to go live in the second half of 2026.



## Explore Blackhillock 275 KV BESS Revolution in ...

Blackhillock 275 kv BESS. Case Study: Renewables Energy; H& MV Engineering

coordinated with the client regarding the delivery of the BESS to a site, which included PCS, 33 kV transformers, containerised batteries, HVAC ...



## Saint-Barthélemy

Saint-Barthélemy (zu deutsch Sankt Bartholomäus) wird neben seinen Bezeichnungen St. Barths, St. Barts, St. Barth oder Saint-Barth auch das St. Tropez der Karibik genannt. Ihren Namen verdankt die Insel Christoph Kolumbus, der sie entdeckte und nach seinem Bruder Bartolomeo benannte. Die Insel ist ein französisches Überseegebiet mit einer Größe von 21 ...



Application scenarios of energy storage battery products

## Zenob? begins construction of three Scottish battery storage ...

International EV fleet and battery storage specialist Zenob? has today announced that construction has begun on three battery storage projects at Blackhillock, Kilmarnock South and Eccles in Scotland, which will total £750 million of investment.

## Blackhillock Battery Energy Storage Project, Scotland

The 300MW/600MWh Blackhillock storage project is an under-construction battery storage project in Blackhillock, Scotland. Once commissioned, the energy storage system will become the first

battery in the world to deliver stability services using a transmission-connected battery.



## Zenob? wins Battery Energy Storage System financing ...

The first phases of Zenob ?'s Blackhillock and Kilmarnock South battery energy storage system (BESS) projects have been awarded European Transaction of the Year in the BESS category of the IJGlobal ESG ...

## Zenob? battery project reaches pivotal electrification phase

Once built, the Blackhillock site will provide a capability of 300 MW/600 MWh and the first full suite of active and reactive power services to be witnessed globally. In line with the sustainable credentials of the project, Zenob? has been selective of its suppliers who will provide sustainable services and leading expertise.



## UK's Zenob? Energy gets US\$285 million financing, starts 300MW BESS ...

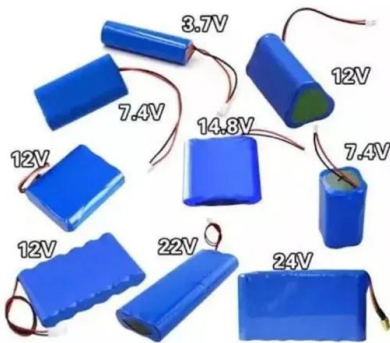
Zenob? Energy has started construction of a 300MW/600MWh battery energy storage project in Blackhillock, Scotland. The announcement comes shortly after the UK energy storage and e-mobility specialist secured a £235 million

(US\$284.8 million) long-term debt facility from five banks.



## Blackhillock Ltd

This installation marks a significant step forward in the transition to clean, renewable energy. By integrating a Battery Energy Storage System (BESS), we are maximizing the use of green energy, reducing dependence on fossil fuels, and contributing to a more stable and resilient energy grid.



## Zenob? starts US\$900 million battery storage portfolio in Scotland

Phase one of the Blackhillock and Kilmarnock South projects will go live in the first and second half of 2024 respectively, totalling 400MW/800MWh. Eccles, which is due to go live at the beginning of 2026, will have a capacity of 400MW/800MWh. System integrator EVLO Energy Storage (EVLO) has completed delivery of the BESS units for a 12MW

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