

## European Solar Energy Storage

# El Salvador pillswood bess



## Overview

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What is Pillswood?

Pillswood stands as the flagship project under owners Harmony Energy Income Trust and the developers at Harmony Energy. It debuted as a game-changer, claiming the title of Europe's largest Battery Energy Storage System (BESS) by MWh.

What is Pillswood Battery Energy Storage System (BESS)?

March 2023: Official launch and site opening  
PROJECT OVERVIEW: The Pillswood Battery Energy Storage System (BESS) near Hull in northern England was officially opened by Harmony Energy and its investment company, Harmony Energy Income Trust, in March 2023. This 98MW/196 MWh scheme is Europe's largest.

What is the Pillswood BESS project?

an energy generation and to protect the future of our planet. The Pillswood BESS project is the first of eight similar battery energy storage schemes scheduled for delivery by HEIT in the coming year. Harmony also has plans to replicate its UK success in continental Europe to address the urgent need to deploy significant volumes of BESS to support.

Who owns Pillswood Battery Energy Storage System?

Developed by Harmony Energy and owned by Harmony Energy Income Trust, the multi-award winning Pillswood battery energy storage system, was Europe's largest by MWh at the time of launch. Pillswood stands as the flagship project under owners Harmony Energy Income Trust and the developers at Harmony Energy.

Is Pillswood the biggest battery storage project in Europe?

Image: Harmony Energy. Alex Thornton, operations director at Harmony Energy, gives us a deep dive into Pillswood, the biggest battery storage

project in Europe, including the bold decision to be an early-mover into 2-hour lithium-ion BESS, in a market of much shorter duration assets.

What is the pillswood project?

With BESS touted by many as the key to unlocking the full potential of renewable energy, the Pillswood project marks a significant step forward in the role of battery energy storage systems in diversifying the UK's energy supply by providing balancing services to the grid such as demand support to combat inefficiencies.

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### Harmony Energy UK BESS fund scraps dividend, mulls asset sale

The fund, which is managed by developer Harmony Energy and trades as HEIT, has five operational UK battery energy storage system (BESS) projects and three set to be commissioned this year, all in all totalling 395.4MW/790MWh. Those include the two joint-largest operational systems in the UK and Europe, Pillswood and Bumpers at 198MWh each.

### Yorkshire leading the way in Green Energy Innovations as Europe's

The Pillswood BESS site was officially unveiled on 5 th March 2023 at a stakeholder event organised by Harmony Energy, which brought major international and local players together to tour the facility and discuss the advancement of decarbonisation across our electricity grid. The £75 million project, funded by Harmony Energy Income trust and delivered by Harmony ...



### PV Power Tech: How we delivered the 98MW / 196MWh Pillswood BESS ...

Alex discusses with PV Power Tech various topics of the Pillswood project including topics such as: How the project was born; Securing property rights; The design phase; Getting the project shovel-ready; HEIT acquiring and funding the project

## Harmony Energy Income Trust energises Europe's largest battery ...

The successful energisation of the Bumpers project means HEIT now owns two of the three largest operating BESS sites in Europe (by MWh), following the energisation of its award-winning 98 MW/196 MWh Pillswood BESS project in Yorkshire in November 2022.



## How we delivered the 98MW/196MWh Pillswood BESS Project

Alex Thornton, operations director at Harmony Energy, gives us a deep dive into the biggest battery storage project in Europe, including the bold decision to be an early-mover into 2-hour lithium-ion BESS, in a market of much shorter duration assets.



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## Resumen de la revisión ambiental y social (ESRS) Proyecto ...

El BESS se instalará en la Central1 existente,



ubicada en la localidad de El Pedregal, municipalidad de El Rosario, departamento de La Paz, El Salvador, localizada a aproximadamente 1,55 km al este del aeropuerto internacional de El Salvador. El Proyecto se emplaza en una zona rural/industrial a 6 km al sur de la ciudad El Rosario. La población

## MV E-HOUSE 33KV FOR BESS 100MW

The project includes the design, manufacturing and supply of nr. 2 E-Houses 33kV, equipped with ATR switchgear 36kV 1250A 20kA(1s) for Pillswood BESS plants 100MW. It is the largest BESS system in Europe (by MWh). The E-House is a crucial component of the BESS plants.



## **SSE Renewables kicks off largest UK BESS under-construction**

The Pillswood BESS currently the largest in operation in the UK at 198MWh. Image: Harmony Energy. The renewable energy IPP arm of UK utility SSE is to start building a 320MW/640MWh battery energy storage system (BESS), which could be the largest under-construction in the country.

## **Pillswood BESS wins at Energy Storage Awards 2023**

HEIT's winning entry nominated the Pillswood project in Hull, which is one of the largest BESS in Europe by MWh at 196 MWh (98 MW). Norman Crighton, Chairman of HEIT, commented: "We

are delighted to receive the Grid-scale Standalone Energy Storage Project of the Year Award at this year's Energy Storage Awards for our Pillswood project.



## Renewable Energy Projects

We develop, build, own and operate renewable energy infrastructure projects across Europe and New Zealand to power a more sustainable future for everyone. Our first battery energy storage site went live in June 2020, and since then, Harmony Energy has developed the three largest BESS sites in Europe including the multi-award winning Pillswood site.

## High ancillary services revenues for BESS in Europe won't last

Harmony Energy's Pillswood project in northern England. At 196MWh it is the largest capacity BESS in Europe so far. Image: Harmony Energy. Europe's energy crisis has resulted in high frequency regulation ancillary services revenues for battery storage, with some assets earning up to four times more money than had been expected.



## UK's Harmony Energy Income Trust BESS portfolio sale ...

HEIT's 98MW/196MWh Pillswood project, developed by Harmony Energy, during construction ahead of its start of commercial

operation in 2023. Image: Harmony Energy  
HEIT's portfolio includes two of the biggest ...



## Work begins on UK's 'largest under-construction BESS' ...

The Pillswood BESS currently the largest in operation in the UK at 198MWh. Image: Harmony Energy. SSE Renewables has commenced construction of a 320MW/640MWh battery energy storage system (BESS), ...



## New BESS projects power up in Europe

With the startup of the Bumpers project -- developed by Harmony Energy Limited -- HEIT now owns two of the three largest operating BESS sites in Europe (by MWh), following the energization of its 98 MW/96 MWh Pillswood BESS project in Yorkshire in November 2022. Activation of these two systems increases HEIT's total operational capacity to 277.5 ...

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## Tesla Megapack powers £75M BESS in Europe, the continent

Located at Pillswood near Cottingham, East Yorkshire, the facility is capable of storing up to 196 MWh of energy in a single cycle, which could power roughly 300,000 homes in the area for two hours.



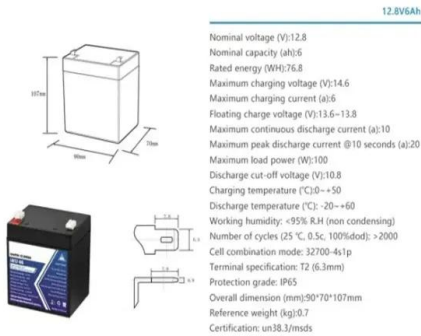
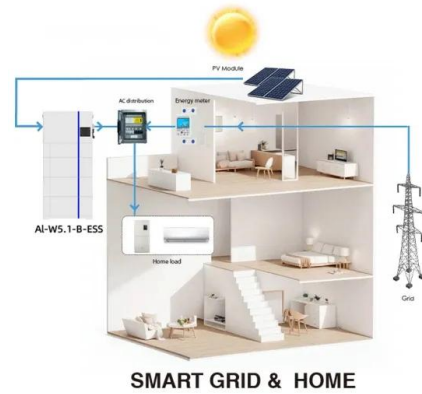
## Harmony Energy secures £10m credit facility for EU ...

Turning our attention to Europe, in October 2023, Harmony Energy Income Trust (HEIT) energised the "joint-biggest BESS in Europe" in the form of Bumpers, a 99MW/198MWh asset in Surrey, England. The output of ...

## Harmony Energy brings Europe's 'largest BESS in MWh'

...

Aerial view of Harmony Energy's Pillswood project in northern England, UK. Image: Harmony Energy. UK clean energy developer Harmony Energy has brought online a 98MW/196MWh battery energy storage system ...



## Harmony Energy Becomes Europe's Largest Battery Energy ...

The Pillswood BESS Project. Near the port city of Kingston Upon Hull in Yorkshire's East Riding, Harmony has developed its third, and largest, BESS project with a Tesla 2-hour Megapack system to boot. This is Europe's largest BESS by energy capacity with the ability to store up to 196 MWh of electricity in a single cycle.

## 'Europe's largest' BESS goes online in UK

'Europe's largest' BESS goes online in UK Harmony Energy Income Trust, an investment firm, announced on November 21 that its Pillswood project, in Yorkshire, UK had gone live some four months' earlier than previously planned. The 98MW/196MWh facility is the largest BESS project in Europe by MWh, Harmony said. This is equivalent to



## UK's Harmony Energy Income Trust BESS portfolio sale update



HEIT's 98MW/196MWh Pillswood project, developed by Harmony Energy, during construction ahead of its start of commercial operation in 2023. Image: Harmony Energy  
 HEIT's portfolio includes two of the biggest BESS projects in Europe, Pillswood and Bumpers, equally sized at 98MW/196MWh each. The eight project portfolio totals 395.4MW output

## Harmony Energy brings Europe's 'largest BESS in ...

Aerial view of Harmony Energy's Pillswood project in northern England, UK. Image: Harmony Energy. (BESS) project. The site, located in Hull, northern England, uses a Tesla two-hour Megapack system. It was ...



## UK's new Battery Strategy misses potential of BESS

The 196MWh Pillswood BESS project in northern England is the largest of its type in Europe. Image: Harmony Energy. A national solar energy industry association has criticised the UK government's newly-released Battery Strategy for paying "insufficient attention" to opportunities presented by battery energy storage systems (BESS).

## Yorkshire leading the way in Green Energy Innovations ...

With BESS touted by many as the key to unlocking the full potential of renewable energy, the Pillswood project marks a significant step forward in the role of battery energy storage systems in diversifying the UK's energy supply by

providing ...



## How we delivered the 98MW/196MWh Pillswood BESS Project

The Pillswood Battery Energy Storage System (BESS) near Hull in northern England was officially opened by Harmony Energy and its investment company, Harmony Energy Income Trust, in ...

## Pillswood BESS wins at Energy Storage Awards 2023

The Pillswood battery energy storage system (BESS), developed by Harmony Energy Limited and owned by Harmony Energy Income Trust (HEIT), has won the "Grid-scale Standalone Energy ...



## Capella Solar (Proyecto BESS)

- 1.2 Permisos 2. Obtener la licencia medioambiental para el proyecto BESS. 2. Licencia medioambiental para el proyecto BESS.
2. Antes del primer desembolso del crédito BESS.
- 1.3 Políticas 1. Implementar la política integrada medioambiental, social, de salud y de seguridad ("MASS"). 1. Evidencia de la Implementación. 1.



## Envision supplying BESS to 166MWh of Harmony Energy's UK ...

Harmony Energy's Pillswood project in northern England. At 98MW/196MWh, the 2-hour BESS is Europe's largest, featuring Tesla Megapacks. Image: Harmony Energy. Wormald Green and Hawthorn Pit, the BESS projects Envision is contracted for, are set to commence in Q2 2023, both anticipated to be fully completed and connected to the grid in



## Projects Overview

The flagship project, Pillswood (196 MWh / 98 MW), was energised (ahead of the original schedule) in November 2022. The final project: Wormald Green (66 MWh / 33 MW) was energised in September 2024. The portfolio is therefore 100% operational (790.8 MWh / ...

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