

Uk liquid air energy storage project



Overview

What is liquid air energy storage?

Yoav Zingher, CEO at KiWi Power Ltd, said “Liquid Air Energy Storage (LAES) technology is a great step forward in the creation of a truly de-centralised energy system in the UK allowing end-users to balance the national electricity network at times of peak demand.

What is a liquid air energy storage plant?

The liquid air energy storage plant uses cryogenically-liquefied air as a medium for storing energy. It is especially suitable for special applications that require large amounts of energy over a discharge time of several hours, and enables fluctuating, renewable sources to bear base-loads.

Where is Highview Power storing liquid air energy?

A render of Highview's liquid air energy storage facility near Manchester. Image: Highview Power. Liquid air energy storage firm Highview Power has raised £300 million (US\$384 million) from the UK Infrastructure Bank (UKIB) and utility Centrica to immediately start building its first large-scale project.

Can liquid air energy storage power 480,000 homes?

The facility has been described as the UK's first commercial scale liquid air energy storage plant, and could have the capacity to power 480,000 homes. Energy compressed into air, liquified and then cryogenically frozen can be held at the plant for several weeks, which is longer than battery storage.

Could a £300m energy facility store excess power as liquid air?

An energy firm starts work on a huge £300m facility in Trafford to store excess power as liquid air.

Is Highview Power ready to build a 300 MWh liquid air energy storage plant?

Highview Power is ready to start building a 300 MWh liquid air energy storage (LAES) plant in the United Kingdom after securing GBP 300 million (\$383 million) from a syndicate of investors. The British LAES company raised the capital in a funding round led by the state-owned UK Infrastructure Bank and energy multinational Centrica.

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MAN Energy Solutions to Partner on World's Largest ...

The liquid air energy storage plant uses cryogenically-liquefied air as a medium for storing energy. It is especially suitable for special ...

UK: Push for large-scale liquid-air energy storage project

Highview Power, has selected MAN Energy Solutions to provide its Laes turbomachinery solution for its Cryo-battery facility, a 50 MW liquid-air, energy storage facility - ...



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10 years warranty



Axiscades' subsidiary Epcogen secures contract for UK's largest liquid

The contract is part of Highview Power's initiative to build the world's largest liquid air energy storage (LAES) facility at the Carrington Power Project in Manchester, UK. ...

UK confirms cap-and-floor mechanism for LDES from ...

UK energy storage developer Field, to date

focused on shorter-duration battery energy storage system (BESS) projects, has also welcomed ...



UK Infrastructure Bank, Centrica & Partners Invest ...

Highview Power has secured the backing of the UK Infrastructure Bank and the energy industry leader Centrica with a £300 million ...

Evaluating economic feasibility of liquid air energy storage ...

Liquid air energy storage is a clean and scalable long-duration energy storage technology capable of delivering multiple gigawatt-hours of storage. The inherent locatability of ...



Green Light for Long Duration Energy Storage in ...

On 10 October 2024 the UK Government gave the green light to a cap and floor scheme to help bring long duration energy storage (LDES) projects to market. ...

MAN Energy Solutions to Partner on World's Largest ...

Phase 2 will represent the integration of stability services with a full-scale long-duration energy storage system, and in doing so promote the ...



Four 2.5 GWh long-duration energy storage systems announced for the UK

10 GWh of liquid air energy storage is set to come online, starting in Scotland, with Highview Power jumping on an a new investment support scheme for long-duration ...

World first grid-scale liquid air energy storage project ...

The UK's energy storage sector took "a great step forward" after completing what is thought to be the world's first grid-scale liquid air energy ...



Highview Power secures £300M to build UK's first ...

UK scaleup Highview Power has secured £300mn to build a liquid air storage plant in Manchester. The UK government's Infrastructure ...

OEM service

Hot Colors:



Color can be customized
more questions just do not hesitate to contact us

LOGO Position: (Screen printing)



Centrica invests in renewable energy storage ...

Centrica plc announces a strategic partnership and £70 million investment in Highview Power and its first clean energy storage project in ...



Fossil fuel plant in England will get 250MWh liquid air ...

Sketch of the planned 50MW / 250MWh LAES project. Image: Highview Power. UK liquid air energy storage (LAES) start-up Highview Power ...

Ofgem super-charging clean power storage for first time in 40 years

Ofgem has launched a new cap and floor investment support scheme, unlocking billions in funding to build major Long Duration Electricity Storage projects for the first time in ...





[Technology , Highview Power](#)

Find out how our mature, proven liquid air to energy technology works: capturing excess renewables, providing long duration storage, generating dependable, ...

Highview bags £300m for large-scale liquid air energy ...

The funding will enable Highview to launch construction on a 50MW/300MWh long-duration energy storage (LDES) project in Carrington, ...



[Press Release](#)

Manchester, England. Bilfinger collaborates with UK long duration energy storage business Highview Power to pioneer the construction of the UK's first commercial liquid air energy ...

How Long Duration Energy Storage can power the UK's net zero ...

The future Long Duration Energy Storage technologies are poised to play a critical role in the UK's transition to a low carbon energy system. By providing reliable and ...



Future Energy: Liquid Air Energy Storage (LAES) ...

Liquid air energy storage (LAES) is a class of thermo-mechanical energy storage that uses the thermal potential stored in a tank of cryogenic fluid. The device is ...



Achieving a net-zero-carbon energy system in the UK by 2050 ...

Different storage technologies can offer promising solutions for integrating large amounts of intermittent and variable renewables, in which the liquid air energy storage (LAES) ...



UK's Highview Power bags £300 mn for 6-hour ...

British firm Highview Power, which specializes in liquid air energy storage, has raised £300 million (\$384 million) to set up its first large ...



Highview Power to Develop 10 Gigawatt Hours of Long-Duration Energy

Each 2.5GWh liquid air energy storage (LAES) plant will have the ability to power 650,000 homes for over 12.5 hours. The plants are strategically placed to ensure the ...

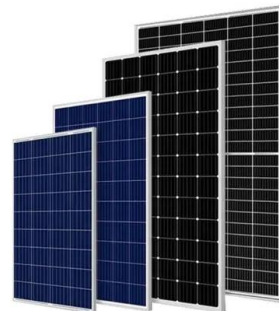


UK: Push for large-scale liquid-air energy storage project

Highview Power, has selected MAN Energy Solutions to provide its Laes turbomachinery solution for its Cryo-battery facility, a 50 MW liquid-air, ...

UK's Highview Power bags £300 mn for 6-hour duration liquid air energy

British firm Highview Power, which specializes in liquid air energy storage, has raised £300 million (\$384 million) to set up its first large scale project, and the largest liquid air ...



Volkswagen subsidiary MAN Energy Solutions signs up for 250MWh liquid

MAN Energy Solutions, a Volkswagen-owned engineering group perhaps best known for its work with diesel engines, has formally signed a deal to supply turbomachinery for ...



The liquid air alternative to fossil fuels

3 ???· An overlooked technology for nearly 50 years, the first liquid air energy storage facility is finally set to power up in 2026. It's hoping to compete with grid-scale lithium batteries and ...



Highview Power secures £300m for UK LAES energy ...

Highview Power has secured a £300m (\$383m) investment for its first commercial-scale liquid air energy storage (LAES) plant in the UK. The ...

Fossil fuel plant in England will get 250MWh liquid air energy storage

Sketch of the planned 50MW / 250MWh LAES project. Image: Highview Power. UK liquid air energy storage (LAES) start-up Highview Power said its first ever 250MWh ...





Top 10 Compressed Air Energy Storage startups (October 2025)

Country: UK , Funding: \$445.5M Highview Power's CRYOBattery delivers, clean, reliable, and cost-efficient long-duration energy storage to enable a 100% renewable ...

LIQUID AIR ENERGY STORAGE (LAES)

Installation of power recovery cycle in pilot plant Highview operation with Highview and project partners, Viridor, awarded funding for a 5MW LAES Frost & Sullivan awards Highview with ...



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