

What is phelas energy storage?

We at phelas are developing an electricity storage system to use solar and wind power even when the sun is not shining and the wind is not blowing. Our Aurora Liquid Air Energy Storage (LAES) system is at the heart of this vision, transforming renewable sources into a stable, around-the-clock power supply.

How does phelas work?

With this approach, phelas aims to completely eliminate the need for fossil electricity production. The replacement of coal and gas plants necessitates large electricity storage capacities. Renewable energy sources provide energy only when the sun shines and the wind blows - which is not always.

Is phelas the future of telecommunications?

Deutsche Telekom hub:raum Fund sees phelas' technology as a promising component for further exploration in ensuring network reliability and resilience in the telecommunications sector, aligning with their vision of a 100% renewable and secure communication network. "phelas is leading the charge in transforming the energy storage system space.

Who are phelas investors?

phelas, a pioneer in the energy storage sector, announced a seed financing round of EUR4.1 million. This investment round is led by E44 Ventures, an Israel-leading climate tech fund, with participation from Axon Partners Group, Deutsche Telekom hub:raum Fund, BNV Partners, other investors and existing angel investors.

Why did phelas start?

CEO Justin Scholz of phelas shared the core vision: "Making 100% renewable energy globally a no-brainer. We started phelas to make this vision reality and enable our customers build the renewable energy system of the future. Renewables + storage must become the cheapest, most sustainable, and most reliable power supply globally."

How does phelas liquefy a cryogenic liquid?

The phelas-team is developing Aurora, a standardized, modular, mass-manufactured and cheap large-scale electrical storage system that uses electricity during the charging process to cool air down to cryogenic temperatures and thus liquefy it. For discharging, the cryogenic liquid is heated and thus evaporated.

A: I was working for a large international company in Argentina, and I realised that I was not making as much impact as I wanted to make to create a better world. This realisation prompted me to take a break and reassess my career. When I moved to New Zealand, I saw the potential for a greener future and renewable energy solutions. The meeting ...

A: I've only been at phelas for a few months, so I'm still learning a lot about both my role and the organisation, and the energy sector itself was completely new to me. But I very much enjoy being surrounded by super smart and motivated people, and so far, every day at phelas teaches me something new.

Founded in 2020, phelas is developing Aurora, a modularised and scalable energy storage system based on a new proprietary air liquefaction and thermal management process to achieve low-cost, scalable sustainable, and easy energy storage. Phelas has already been working with customers to accelerate energy storage deployment through Catalyst ...

By closely collaborating with Ørsted, phelas aims to reduce technological and market risks, ensuring a faster adoption of phelas' energy storage solution for commercial use. Ørsted's industry insights, market knowledge, and commitment to green energy provide invaluable support as phelas works towards bringing Aurora to the mass market.

Aurora and Catalyst place phelas at the forefront of the renewable energy sector. Starting in Germany and Europe, our aim is global: making renewable energy a practical, sustainable choice for all. Our cutting edge utility-scale long duration ...

phelas Aurora is a completely new thermodynamic storage system, that builds on the principles of Liquid Air Energy Storage (LAES). We use the strengths of LAES (no harmful materials, reliable components with high technological maturity), ...

Munich-based phelas, a pioneer in the energy storage sector, announced Wednesday that it has secured EUR4.1M in a seed round of funding. The funding round is led by E44 Ventures, an ...

December 22, 2022 - Munich, Vienna. Photo: phelas Liquid Air Energy Storage System AURORA. Long duration energy storage provider phelas and Austria's largest regional utility, Wien Energie will work together to explore possibilities to deploy long-duration energy storage systems to support Wien Energie's vision in strengthening its green energy portfolio and ...

Consequently, energy storage is needed to enable the shift for energy production from renewable sources. To achieve this ambitious goal, the phelas team works together on three main areas. Justin Scholz with over six years of start-up experience and Christopher Knoch with five years of professional experience as a management consultant work in ...

Phelas is focused on developing and commercializing large-scale energy storage solutions using their Aurora Liquid Air Energy Storage (LAES) technology. This innovative system allows renewable energy from solar and wind to be stored efficiently and used when needed, ensuring a stable power supply.

phelas, a provider of long-duration energy storage solutions, secured EUR4.1 million (~\$4.5 million) in a seed funding round led by E44 Ventures, an Israel-leading climate tech fund. It also saw participation from Axon



Phelas energy Tokelau

Partners Group, Deutsche Telekom Hubraum Fund, BNV Partners, other investors, and existing angel investors. phelas specializes in the development ...

Today marks an important day for phelas - we're celebrating our third anniversary! ... Together we are shaping the future of renewable energy, making tomorrow's sustainable energy a reality. Our journey wouldn't have been possible without the continuous support of our partners, who have been with us through the ups and downs. Our ...

Energy Insights "Energy Insights" is a dedicated space where we share our expert analyses, market trends, and cutting-edge research in the energy sector. It's designed to equip you with the knowledge and foresight to make informed decisions in a dynamic energy landscape.

Munich, Germany - 06.03.2024 - phelas, a pioneer in the energy storage sector, announced today a seed financing round of EUR4.1 million. This investment round is led by E44 Ventures, an ...

The Achilles heel of weather based renewable technologies, such as solar and wind, is the intermittent nature of their supply. By virtue of their inherent dependence on a non-controllable variable (the weather), weather-based renewables can, at times, produce too much energy (leading to either congestion or grid curtailment), and at times produce too little (Figure 1).

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