



Southern Europe Air Energy Storage Project





Overview

Air4NRG is a European project developing innovative isothermal compressed air energy storage (I-CAES) technology to enhance renewable energy storage, reduce reliance on critical raw materials, and promote Europe's energy independence.

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Air isothermal compression technology for long term energy storage Air4NRG will help address the growing need for stable and reliable long-term energy storage solutions to stabilise intermittent renewable generation due to increasing reliance on these energy sources. Compressed Air Energy Storage.

The 'EU Policy Priority' trackers document the expenditures of the Research and Innovation framework program in specific policy areas that have established spending targets, such as climate and biodiversity. These trackers also cover areas where the Commission has reporting requirements, including.

The primary objective of Air4NRG is to develop a scalable, efficient, and environmentally friendly compressed air energy storage system. This system will significantly enhance renewable energy availability and support Europe's transition to renewable energy. By leveraging isothermal compressed air.

That's exactly the approach taken by Air4NRG, where partners SEGULA Technologies and ABC Compressors are working together to design, test, and optimise an innovative compressed air energy storage solution. In an in-depth conversation, David Guyomarc'h, the project's scientific coordinator, shared.

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Eneco and Corre Energy have signed a provisional agreement for the joint development of and investment in Corre Energy's first compressed air energy storage (CAES) project in Germany. The partnership will enable Eneco to use the



full capacity of the first phase of the project in Ahaus. This project.



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Compressed-air energy storage

Compressed-air-energy storage (CAES) is a way to store energy for later use using compressed air. At a utility scale, energy generated during periods of low demand can be released during ...

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Will Europe Promote Air Energy Storage Projects? The Green ...

Welcome to Europe's energy paradox in 2025, where renewable abundance and scarcity play tug-of-war. Last January alone, Germany recorded 468 hours of negative ...

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Scaling Energy Storage, One Step at a Time: A Conversation ...

About Air4NRG: Air4NRG is a Horizon Europe-funded project aimed at developing an innovative and sustainable energy storage solution based on isothermal compressed air ...

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Home

The project combines air-based central receiver Concentrated Solar Power and Compressed Air Energy Storage to maximize conversion efficiency and power grid energy management.

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Air isothermal compression technology for long term energy storage

In this context, the EU-funded Air4NRG project aims to improve long-term energy storage. Specifically, it targets over 70 % round-trip efficiency, sustainability, and integration ...

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Eneco and Corre Energy join forces in German compressed air energy

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Air4NRG Project: Pioneering clean energy storage solutions

Air4NRG is a European project developing innovative isothermal compressed air energy storage (I-CAES) technology to enhance renewable energy storage, reduce reliance ...

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[Compressed Air Energy Storage \(CAES\)](#)



[for Large ...](#)

Join us for insightful discussions on the future of energy storage, system costs, integration timelines, and the dynamic landscape of large, grid ...

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Air4NRG , Air isothermal compression technology for long term energy

This project will combine advanced research on the isothermal compression/expansion process with the development of a robust, industrial-grade gas compressor stored in a containerised ...

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Compressed Air Energy Storage (CAES) for Large Scale Power Storage

Join us for insightful discussions on the future of energy storage, system costs, integration timelines, and the dynamic landscape of large, grid-scale storage.

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Air isothermal compression



technology for long term energy ...

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[Scaling Energy Storage, One Step at a Time: A ...](#)

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About the project

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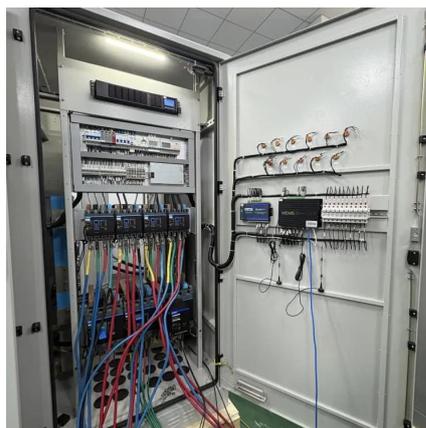
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[technology ...](#)

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