

# **North Cyprus Hydrogen Energy Site 3 44MWh**





## Overview

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Is Cyprus a good destination for hydrogen production?

Cyprus' case as a destination for use and production of hydrogen is a particular one. On the one hand its geographical location and abundance of solar radiation make it a partially attractive option for renewable hydrogen production, where costs can be lower than in continental central and northern Europe.

Does Cyprus have a hydrogen refinery?

This can be a challenge for the local industry. There are no refineries in Cyprus, which currently constitutes a significant user base of hydrogen in other countries. A refinery was operating on the island between 1972 and 2004, when it ceased its operations. As Cyprus gradually decarbonises, local refining of petroleum products is not foreseen.

Does Cyprus need a hydrogen pipeline?

To achieve a constant blend, hydrogen storage would be required that will drive costs up. Since however Cyprus does not have an existing gas pipeline network to leverage on, any new pipeline project should be able to carry hydrogen in any blending ratio, even in pure form.

Does Cyprus need a hydrocarbon storage system?

Moreover, Cyprus needs a systematic and rigorous survey of geological formations that would be suitable for hydrogen (and CO<sub>2</sub>) storage, such as salt caverns and depleted aquifers since there are no hydrocarbon reservoirs to take advantage of yet.

Does Cyprus have solar power?

Cyprus is endowed with ample solar potential, but modest wind potential. While hydrogen can be produced with very low GHG emissions via either the biogas – reforming, biomass – gasification route or via nuclear electricity,



renewable hydrogen usually refers to water electrolyzers connected to renewable electricity generation units.

Is direct electrification a viable solution for low- and medium-heat applications in Cyprus?

While this study does not perform an exhaustive analysis of every potential low- and medium-heat application in Cyprus, international literature indicates that direct electrification using renewable electricity will be the preferred, but not only, solution instead of hydrogen.



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### Support to REPowerEU Cyprus

The development of a roadmap for the introduction of renewable and low-carbon hydrogen (H2) as an energy vector in the energy system of Cyprus is considered now a priority by the ...

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### Green Hydrogen Innovation Centre , International Solar Alliance

This goal is part of the revised National Energy and Climate Plan (NECP), which aims to transition the country to a green economy. To achieve this target, Cyprus is focusing on increasing the ...

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### [Know-how puts Cyprus on green hydrogen map](#)

President of the Cyprus Hydrogen Association, Makis Ketonis, said 27 companies from Cyprus, Greece, the Netherlands, Lebanon and ...

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President of the Cyprus Hydrogen Association, Makis Ketonis, said 27 companies from Cyprus,



Greece, the Netherlands, Lebanon and Romania have collaborated to submit a ...

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## Know-how and geostrategic position put Cyprus on green hydrogen ...

Cyprus has the necessary know-how, conditions for the development of Renewable Energy Sources that will contribute to the production of green hydrogen as well as ...

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## Green Hydrogen Innovation Centre , International Solar Alliance

To achieve this target, Cyprus is focusing on increasing the use of renewable energy sources like solar and wind, as well as developing energy storage systems and hydrogen-based solutions.

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## Cyprus' Energy Transition to Hydrogen Economy: ...

nsive simulation assessing Cyprus' transition towards a hydrogen-based economy from 2030 to 2060. To explore the power-water-transport nexus, an integrated mathematical optimization ...

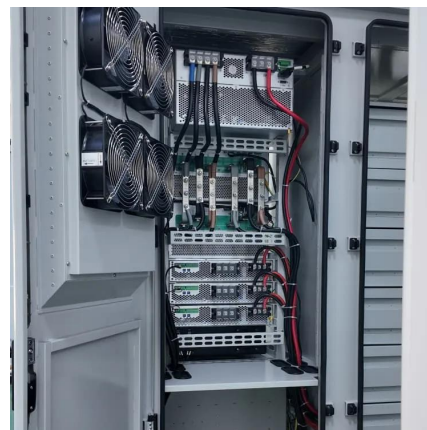
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## [Cyprus well-positioned for green H2 production and export](#)

Cyprus has the necessary know-how and conditions for the development of Renewable Energy Sources to contribute in the production of green hydrogen, experts said on ...

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## [Hithium Launches Eastern Europe's Largest BESS ...](#)

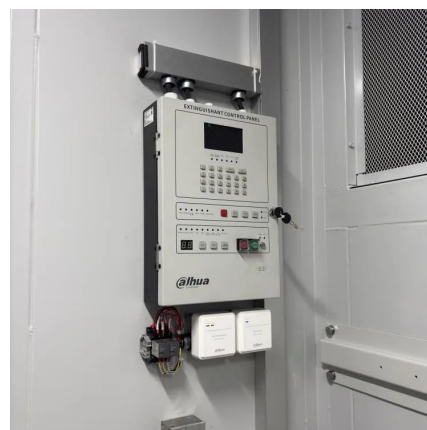
The new facility officially went live in early June, with the delivery of Hithium's 16 energy storage containers, each with a capacity of 3.44MWh, to ...

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## [Welcome address by the Minister of Energy, ...](#)

Notably, direct electrification represents the most suitable option for Cyprus, particularly considering our island's renewable energy potential, ...

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## **Cyprus: Energy Country Profile**

Cyprus: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on decarbonizing our ...

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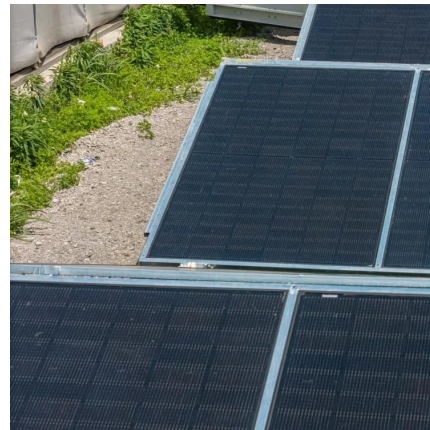


## [2025 H1 Global Shipment of Energy Storage Batteries](#)

HiTHIUM's first 6.25MWh Energy Storage Solution is tailored for the North American market and the 4-hour long-duration energy storage application

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## [Know-how and geostrategic position put Cyprus on green ...](#)

Cyprus has the necessary know-how, conditions for the development of Renewable Energy Sources that will contribute to the production of green hydrogen as well as ...

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## **Cyprus**

New hydrogen technologies to support European Union's REPowerEU Plan: energy supply diversification, energy savings, clean energy transition acceleration, investment and reform.

...

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### [Cyprus plans to roll out hydrogen buses, trucks by 2030](#)

The draft strategy until 2030 envisages the first hydrogen buses and trucks. With the increase in the share of renewable sources in the energy system in Cyprus and their ...

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## Cyprus

The core aim of New Hydrogen Hub is to make Cyprus, given its small size relative to other EU countries, a testbed for having a functional solution to advancing a hydrogen economy in Europe.

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### [Cyprus' hydrogen strategy lacks clear targets, expert warns](#)

However, according to energy professor Andreas Poullikkas, the plan lacks the necessary depth, clear targets, and concrete implementation measures needed for a robust ...

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## Support to REPowerEU Cyprus

Opportunity for Cyprus to position itself as a future hub of production and distribution of hydrogen, or hydrogen-based derivatives that might emerge as trade commodities.

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### [Cyprus well-positioned for green H2 production and ...](#)

Cyprus has the necessary know-how and conditions for the development of Renewable Energy Sources to contribute in the production of ...

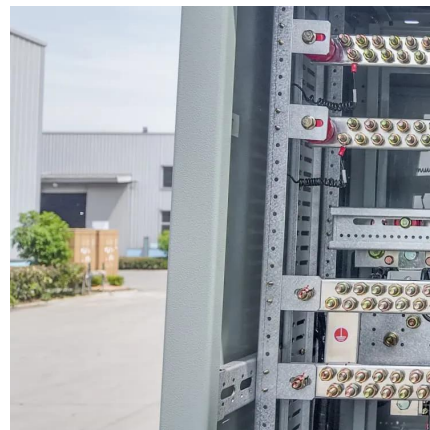
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### [Cyprus Bets on Hydrogen: Key Data, Challenges, and Timelines](#)

Cyprus advances energy storage and hydrogen solutions to enhance its green transition, supporting its goal of establishing the Mediterranean as a regional green energy ...

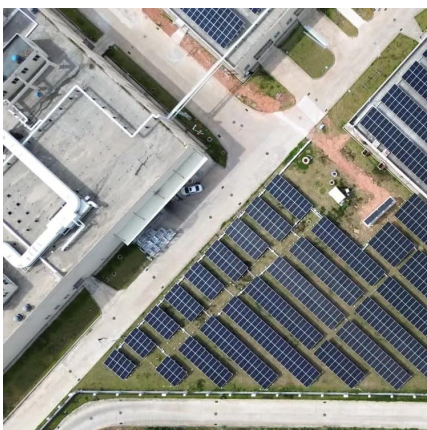
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### [Cyprus Pioneers Europe's First Hydrogen Valley](#)

This ambitious project aims to revolutionize the region's energy landscape, with a strong focus on green hydrogen production. Green hydrogen, produced using renewable ...

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### [George Papanastasiou: Energy storage and hydrogen ...](#)

The Minister noted that while advancing on energy storage, Cyprus is also simultaneously exploring its hydrogen capabilities as a ...

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### **Energy storage and hydrogen solutions align with Cyprus' ...**

In addition "we recognize the need for a comprehensive regulatory framework, which we aim to complete by 2027" Energy storage and hydrogen solutions align perfectly with ...

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### [Cyprus hydrogen project secures permits and EU support](#)

4 days ago· Cyprus is moving forward with its first hydrogen production and refuelling station, which has now received the necessary building permits and secured EUR7.5 million in funding, ...

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### [Cyprus' hydrogen strategy lacks clear targets, expert ...](#)

However, according to energy professor Andreas Poulikkas, the plan lacks the necessary depth, clear targets, and concrete implementation ...

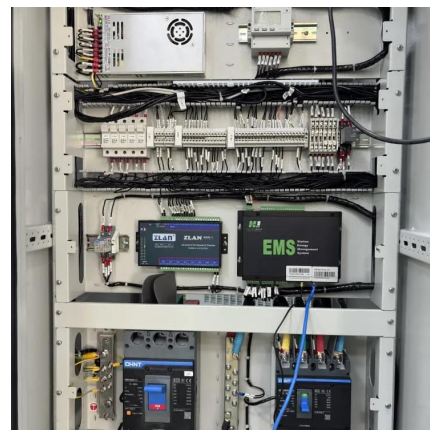
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## Latest information on the operation of the North Cyprus energy ...

But a few hours of energy storage won't cut it on a fully decarbonized grid. It announced it would commit AU\$14.2 billion to construct a 2000-megawatt, 24-hour plant above Lake ...

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