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North Cyprus Hydrogen Energy Site 3 44MWh



Overview

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 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 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 hydrocarbon storage system?

Moreover, Cyprus needs a systematic and rigorous survey of geological formations that would be suitable for hydrogen (and CO₂) 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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