

ContainerPower Energy Solutions

Costa Rica Zero Carbon Energy Storage Industrial Park Project



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Overview

Can green hydrogen accelerate Costa Rica's path to net-zero?

The high potential for renewable energy in the country – Costa Rica has produced more than 98% of its electricity in the last six years through renewables – implies there is a clear opportunity for green hydrogen production to accelerate Costa Rica's trajectory towards net-zero in hard-to-abate sectors.

Is green hydrogen a key element in Costa Rica's decarbonisation efforts?

The NGHS positions green hydrogen as a pivotal element in Costa Rica's decarbonisation efforts, mainly targeting challenging sectors to electrify, such as heavy-duty transportation and industry. The strategy emphasises utilising the nation's renewable energy matrix, which is nearly 100% renewable, to produce green hydrogen competitively.

What is Costa Rica's 2023 Green Hydrogen strategy?

Costa Rica's 2023 Green Hydrogen Strategy aims for a potential production capacity of up to six million tonnes per year and an installed electrolysis capacity of 150 and 500 megawatts by 2030, marking their target for green hydrogen production capacity within the country.

Why is Costa Rica a green energy hub?

By establishing itself as a regional hub for green hydrogen technology and knowledge, Costa Rica seeks to reduce greenhouse gas emissions, enhance energy independence, and stimulate economic growth through sustainable energy solutions.

What is Costa Rica's green hydrogen vision?

Costa Rica's green hydrogen vision revolves around leveraging its nearly 100% renewable energy matrix to become a leader in green hydrogen production and innovation.

Can Costa Rica achieve a fully decarbonised energy system?

This policy roadmap complements the study “100% Renewable Energy for Costa Rica – A decarbonisation roadmap” by the University of Technology Sydney – Institute for Sustainable Futures. It aims to provide policy pathways for Costa Rican to achieve a fully decarbonised energy system in Costa Rica.

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