

Hydrogen energy storage costa rica

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In 2019, as part of the BID Lab project ATN/ME-16972, "Path to Decarbonization: Promoting the Hydrogen Economy in Costa Rica," the Costa Rican Hydrogen Alliance was established. Initially driven by various private stakeholders interested in fostering the hydrogen ecosystem in Costa Rica as a sustainable energy storage medium for transportation and industrial applications, the Alliance aims to contribute to the country's efforts towards economic decarbonization.

The primary goal of the Alliance is to become a coordination mechanism for the hydrogen ecosystem, positioning itself as a facilitator of the energy transition and advocating for sector support schemes and the adoption of public policies.

As an organization, the Alliance seeks high-level technical expertise to quantify the impacts and benefits of hydrogen in the country, as well as to develop proposals for regulatory frameworks that facilitate the development of the hydrogen market.

Hydrogen is going to have a major role in replacing fossil fuels worldwide. Hydrogen is unique, compared to other energy storage solutions, because it has a greater storage capacity, longer unit life, is fast-charging, and the only by-product is pure water. AASEA has proven that green hydrogen production in Costa Rica is possible and practical. Expanding the hydrogen economy throughout the region will stimulate job opportunities, reduce dependence on oil imports, and move Costa Rica closer to becoming a carbon-free country.

This process, however, is not exclusive to Costa Rica, the infrastructure we have put in place in Costa Rica can be replicated worldwide, along with the economic and environmental benefits that accompany it.

Our goal at AASEA is to develop and implement clean energy solutions tailored to our customers. We chose hydrogen as our specialization because of its extraordinary power to mass ratios (kW/kg) and its ability to scale up. Those two things give it an advantage over other electric technologies when it comes to heavy duty cargo transportation and larger scale stationary operations, two major contributors to the global carbon-footprint. By focusing our attention on technology that can solve larger scale industry problems, our efforts will aid in the diversification of available green energy solutions, hopefully making the shift to a carbon-free society a little smoother.

The following is some informational one-pagers we have put together regarding hydrogen technology.

Hydrogen Energy Storage Solution

Hydrogen Fuel Cells Overview

Hydrogen and the Costa Rican Economy

AASEA's Hydrogen Firsts in LATAM

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