

## Mexico city hydrogen energy storage

As the world races towards decarbonization by 2050, Mexico and other Latin American countries are beginning to embrace clean hydrogen technologies. With international partnerships and a growing emphasis on green energy, the region is poised for transformation.

"Her administration is looking to accelerate decarbonization, and we see potential in working together on projects that align with this vision," Nakano said. He highlighted that JBIC already has 45 projects underway in Mexico, totaling \$1.359 billion in loans, many of which are focused on sustainable energy initiatives such as green hydrogen.

Clean hydrogen, also known as green hydrogen, is produced using renewable energy sources, unlike traditional hydrogen production, which relies on fossil fuels. As a nascent industry in Mexico, clean hydrogen could become a major component of the country's future energy mix. However, it faces significant challenges in areas such as regulation, technology, infrastructure, and a need for skilled labor.

Despite the excitement surrounding the potential of clean hydrogen in Mexico, industry experts are cautious. During the forum, Jos? Luis S?nchez, a representative from the consulting firm ERM, emphasized that the road ahead will not be easy. "As with any emerging industry, there are barriers to entry," S?nchez explained. "There's still much to be done to establish a regulatory framework, provide investment incentives, and advance technology for production, distribution, and storage."

A pressing issue is a lack of a clear roadmap for hydrogen development in Mexico and the broader Latin American region. Governments and industries must collaborate to create the necessary regulatory frameworks that can drive investments and facilitate the growth of the hydrogen sector. "Training in new technologies will also be crucial," S?nchez added, highlighting the need for skilled workers to manage and operate the complex infrastructure required for hydrogen production and distribution.

While the challenges are significant, the potential rewards are immense. The Mexican Hydrogen Association (AMH2) estimates that the green hydrogen sector could create up to three million jobs in Mexico alone. This is a crucial opportunity for a country where job creation is a top priority, especially in sustainable industries. As Mexico looks to scale up its hydrogen production capabilities, it could become a significant player in the global green hydrogen market, positioning itself as a hub for clean energy technologies.

Mexico is not the only country in Latin America looking to green hydrogen as a solution for decarbonization. Across the region, several countries are exploring how this clean fuel can meet their energy needs while reducing carbon emissions.

Chile has been a leader in this space, with its ambitious plans to become the world's leading producer of green

hydrogen by 2030. With its abundant renewable energy resources, particularly solar and wind power, Chile has attracted significant investments from international companies. The country's Atacama Desert, one of the sunniest places on Earth, is ideal for large-scale solar projects to generate the energy needed for hydrogen production.

Uruguay is also exploring green hydrogen opportunities. The country's strong renewable energy sector, which already generates over 90% of its electricity from renewable sources, provides a solid foundation for developing hydrogen infrastructure. Uruguay's government is working with private companies and international organizations to build a comprehensive hydrogen strategy, focusing on export potential.

Argentina, too, has expressed interest in developing its green hydrogen capabilities, particularly in the southern region of Patagonia, which has some of the world's most favorable wind conditions. The Argentine government is partnering with global energy firms to explore hydrogen projects that could meet domestic energy needs and position the country as an exporter of green hydrogen to international markets.

These efforts are part of a broader movement across Latin America to transition away from fossil fuels and toward renewable energy. With the region's vast natural resources, Latin America has the potential to become a global leader in green hydrogen production, contributing significantly to the worldwide goal of decarbonization by 2050.

The push for green hydrogen is not limited to Latin America. Around the world, countries and companies are investing heavily in this clean energy source to meet climate targets. Several international success stories were presented as models for the region's hydrogen future at the Clean Hydrogen Forum in Mexico.

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