WEF Press Release

Kerala Green Hydrogen Valley Joins World Economic Forum Initiative to Decarbonize Industrial Clusters

- The Kerala Green Hydrogen Valley, led by ANERT, is among the new cluster signatories joining the World Economic Forum.
- The Forum's initiative, "Transitioning Industrial Clusters towards Net Zero," connects industrial clusters worldwide to advance decarbonization efforts.
- The Kerala Green Hydrogen Valley will focus on leveraging green hydrogen to drive decarbonization in mobility and hard-to-abate sectors.

Kerala, India, 23-Sep-2024 – The Kerala Green Hydrogen Valley, spearheaded by the Agency for New and Renewable Energy Research and Technology (ANERT), has joined the World Economic Forum's initiative "Transitioning Industrial Clusters towards Net Zero." This global initiative aims to connect industrial clusters across the world to reduce CO_2 emissions, create jobs, and contribute significantly to global GDP.

The Kerala Green Hydrogen Valley is designed to decarbonize local industries and transportation by leveraging the region's renewable energy resources. The initiative will integrate multiple decentralized clusters, encompassing the entire hydrogen value chain—from production and storage to distribution and diverse end-use applications. By joining the World Economic Forum's clusters initiative, the project will benefit from shared knowledge and best practices among global members.

ANERT's Strategic Goals and Collaborative Efforts

ANERT's commitment under the Transitioning Industrial Clusters Initiative includes several key goals:

- Deployment of hydrogen-powered buses and trucks.
- Integration of fuel cell-electric boats for urban waterways.
- Installation of hydrogen fuelling stations for mobility applications.
- Development of renewable energy generation and hydrogen production infrastructure.

In addition to reducing CO_2 emissions, the Kerala Green Hydrogen Valley will promote economic growth by creating jobs and advancing sustainable energy practices. The Valley is set to play a significant role in Kerala's strategy to achieve net-zero emissions by 2050.

Expanding Global Collaborations

ANERT is actively pursuing several pilot projects in the green hydrogen space in collaboration with technology partners and hydrogen-consuming industries. By joining the initiative, Kerala's Green Hydrogen Valley will be part of a larger global network working towards decarbonizing industrial clusters. This collaboration is expected to accelerate the adoption of green hydrogen technologies and support the state's ambition to become a leader in the global energy transition.

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Mr. Narendra Nath Veluri IFS, Chief Executive Officer of ANERT, stated: " Green hydrogen offers a transformative opportunity for Kerala. By harnessing our renewable resources, including biomass, and integrating green hydrogen into our energy ecosystem, we are not only advancing towards our net-zero targets but also setting a benchmark for clean and efficient transport solutions. The Kerala Green Hydrogen Valley stands as a testament to our commitment to a greener, more resilient future for both our state and the world."

Future Developments

Looking ahead, the Kerala Green Hydrogen Valley is expected to achieve significant cost reductions in low-cost hydrogen production and advance decarbonization efforts across various industries. In the short term, the Valley anticipates an investment activity of around USD 30 million. Additionally, the Valley is evaluating proposals worth approximately USD 1.2 billion for ammonia exports.

About ANERT

The Agency for New and Renewable Energy Research and Technology (ANERT) is Kerala's state-level nodal agency under the Department of Power, Government of Kerala. It is responsible for implementing renewable energy and green hydrogen programs across the state. ANERT is dedicated to advancing Kerala's sustainability goals through innovative energy solutions and collaborative efforts.

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