Hydrogen energy storage saudi arabia

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RIYADH: As global efforts to combat climate change intensify, Saudi Arabia is making bold strides in green hydrogen production, positioning itself as a world leader in the manufacture and export of sustainable energy.

At the heart of this transformation is the NEOM Green Hydrogen Company, a key component of Vision 2030, the Kingdom"s blueprint for diversifying its economy away from oil and achieving sustainability.

Green hydrogen, produced by splitting water into hydrogen and oxygen using renewable energy sources like wind and solar power, has emerged as a critical solution in the fight against climate change.

Unlike gray or blue hydrogen, which are produced from natural gas and emit carbon dioxide or require carbon capture technologies, green hydrogen offers a zero-emissions alternative that can be used across various sectors, from transportation to manufacturing and energy storage.

The initiative will not only help Saudi Arabia reduce its domestic carbon footprint but also position the Kingdom as a major global supplier of green hydrogen, helping other countries reduce their emissions.

"We are proud to say that our vision is driven by Vision 2030," he said. "Our product, our green ammonia, will be saving the world 5 million tonnes of carbon emissions."

NGHC is set to be a cornerstone in Saudi Arabia"s green energy ambitions, producing up to 600 tonnes of green hydrogen daily using renewable energy from the vast solar and wind farms situated in NEOM -- a futuristic city being built in northwest Saudi Arabia.

Indeed, NEOM"s geographic position, with optimal sunlight and wind conditions, makes it an ideal hub for green hydrogen production.

At the core of NGHC is its cutting-edge technology.

According to Al-Ghamdi, this will enable us to scale production at the plant to effectively support global decarbonization efforts, even within traditionally hard-to-abate sectors.

Additionally, ENOWA"s Hydrogen Innovation and Development Center (HIDC), located at Oxagon features a project by NGHC and will focus on R& D, training and development and will ensure the Kingdom stays ahead of evolving green energy technologies.

Al-Ghamdi stressed the entire development was designed with environmental considerations in mind. "Since we started the development and the design phase, we have been building the plant to be environmentally

friendly," he said.

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