



**BUHLE POWER**

# **Dhaka Hydrogen Energy Station**





## Overview

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The country's first on-site hydrogen refueling station (HRS) is installed at the Hydrogen Energy Laboratory, Bangladesh Council of Scientific and Industrial Research (BCSIR), and its performance is studied to penetrate and prepare the hydrogen refueling network for the future. Does Bangladesh have a hydrogen power plant?

Fig 1: Installed capacity trend in Bangladesh (IRENA 2022) Bangladesh set up its first hydrogen energy laboratory with a small hydrogen production plant in Chittagong, a port city on the south-eastern coast of Bangladesh.

Where is Bangladesh's first Hydrogen Energy Laboratory located?

Bangladesh set up its first hydrogen energy laboratory with a small hydrogen production plant in Chittagong, a port city on the south-eastern coast of Bangladesh. The plant was inaugurated by the Bangladesh Council for Scientific and Industrial Research (BCSIR) on January 20th, 2021. Currently, the plant will use waste and biomass as a feedstock.

Can Bangladesh become a green hydrogen producer?

The determined cost is very competitive concerning the international market price which is about US\$13.99/kg. If production cost becomes comparatively lower, Bangladesh could become a remarkable green hydrogen producer with a remarkable impact in the international market.

What is the power generating sector of Bangladesh?

The power generating sector of Bangladesh largely depends on natural gas since the reserve of natural gas is higher compared to all other fossil fuel-based energy resources. Although gas will remain the main source of power generation, a more diversified mix is developing, and sources also include coal, nuclear energy, and renewable energy.



## Dhaka Hydrogen Energy Station

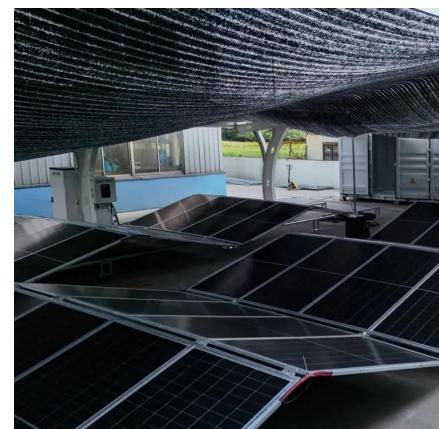


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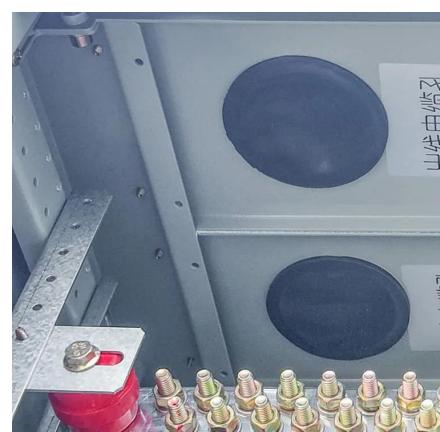
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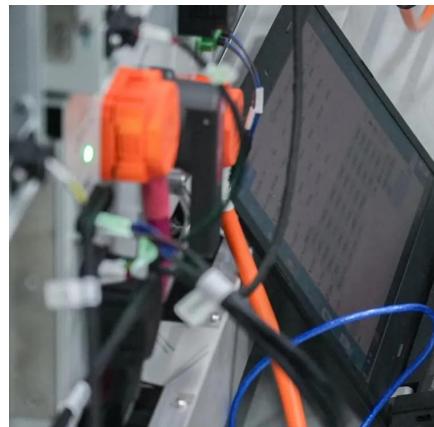


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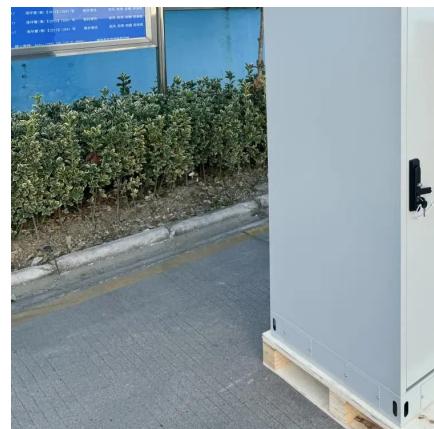


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