



Havana hospital uses 10mw photovoltaic energy storage cabinet





Overview

Can photovoltaic panels be used in hospital facilities?

1.2. Novelty and contribution of the study The current study stands out on optimizing photovoltaic (PV) panels combined to the PEMFC-CHP unit in hospital facilities representing a significant advancement in the field of sustainable energy management.

How does a hospital's solar energy system work?

The system's cornerstone is the PV panels for solar energy conversion into electricity for the hospital's use. The fuel cell combined with a condensing boiler operate with hydrogen and air. Heat produced by the FC during electricity generation is used for pre-heating the domestic hot water.

What are the benefits of a hospital energy management system?

Intelligent Energy Management: The developed energy management system dynamically adjusts energy distribution based on real-time hospital demand, improving system efficiency. Environmental and Economic Impact: The proposed system significantly reduces CO2 emissions and also achieves a reduction in operational costs.



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