

# **Hotel Solar Container Grid-Connected Investment**





## Overview

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The tourism sector is a key source of national income, and the use of renewable energy resources promotes green and sustainable tourism. In addition, ensuring a reliable supply and efficient use of clean energy.

Does a hotel building sector need a net-zero energy strategy?

This study proposes a net-zero energy analysis and optimization approach for the hotel building sector in a typical city. Specifically, the hotel will be powered by HRES based on the installation potential of solar PV, wind energy, and a biogas generator.

Can hybrid PV/wind stand-alone systems meet energy demand in remote resort areas?

Hemeida et al. proposed hybrid PV/wind stand-alone systems integrated with battery storage as a practical solution for meeting energy demand in remote resort areas in Egypt. They simulated their energy system based on real measurements of wind and solar irradiance.

Which hybrid grid-connected energy systems are best?

To achieve this, HOMER Pro software was utilized to perform an economic evaluation of various hybrid grid-connected energy systems (HRES). The optimal HRES chosen for this study is a PV/wind grid-connected system, with renewable energy generators consisting of 143 kW of photovoltaic modules and one 20 kW wind turbine with a hub height of 18 m.

How much does a hybrid energy system cost?

The optimal HRES chosen for this study is a PV/wind grid-connected system, with renewable energy generators consisting of 143 kW of photovoltaic modules and one 20 kW wind turbine with a hub height of 18 m. This hybrid energy system has a net present cost of 388 k\$, which is significantly lower compared to the electricity grid's cost of 873 k\$.



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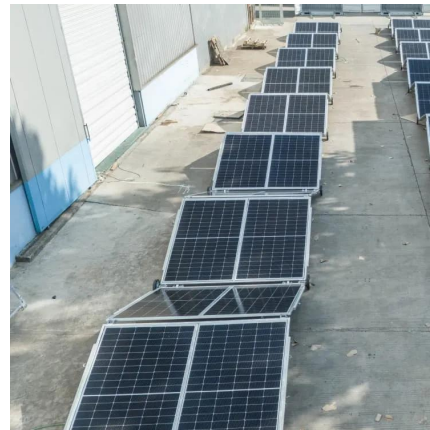
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