

This study investigates the thermal performance of cabinet-type solar dryer using paraffin wax-based NEPCM enhanced with 0.5% functionalized multi-walled carbon nanotubes (FMWCNT). ...

This project, costing approximately OMR 155 million, underscores the country's efforts to diversify its energy sources and meet growing electricity demands. More information can be found in ...

Jamie Gibbs Hot water accounts for around 11% of the average energy bill. So, if you're looking to lower your energy costs and improve your carbon footprint, it's worth considering solar water heating. Solar water heating ...

Solar-thermal power can replace fossil fuels in a wide variety of industrial applications, including petroleum refining, chemical production, iron and steel, cement, and the food and beverage industries, which account for 15% of ...

Solar energy is radiation from the Sun that is capable of producing heat, causing chemical reactions, or generating electricity. The total amount of solar energy incident on Earth is vastly in excess of the world's energy ...

From the desert interiors of Ibbri to the coastal winds of Dhofar, Oman's energy future is shifting dramatically. The Ministry of Energy and Minerals' Annual Report 2024 outlines a bold ...

The Al Kamil Wal Wafi Solar Project is a key component of Oman's renewable energy strategy, and its successful implementation will set the stage for future solar projects in the country. ...

The share of solar and wind energy in Oman's total electricity generation surged to approximately 11.5 per cent in the first five months of 2025, more than doubling from around 4.88 per cent at the end of December 2024, Zawya News Agency ...

Creating an artificial geothermal energy reservoir by injecting pressurized sub-critical fluids into permeable rock formations, which are preheated using geothermal, solar thermal, or waste ...

Solar thermal can fulfill a substantial amount of heat demand in industrial and agricultural food processes within any given country and irrespective of the geographical location. In developed economies, solar ...

Solar thermal technologies have surfaced as viable options in this global challenge for the utilization of renewable energy sources. Global warming, driven by increased greenhouse gas ...



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