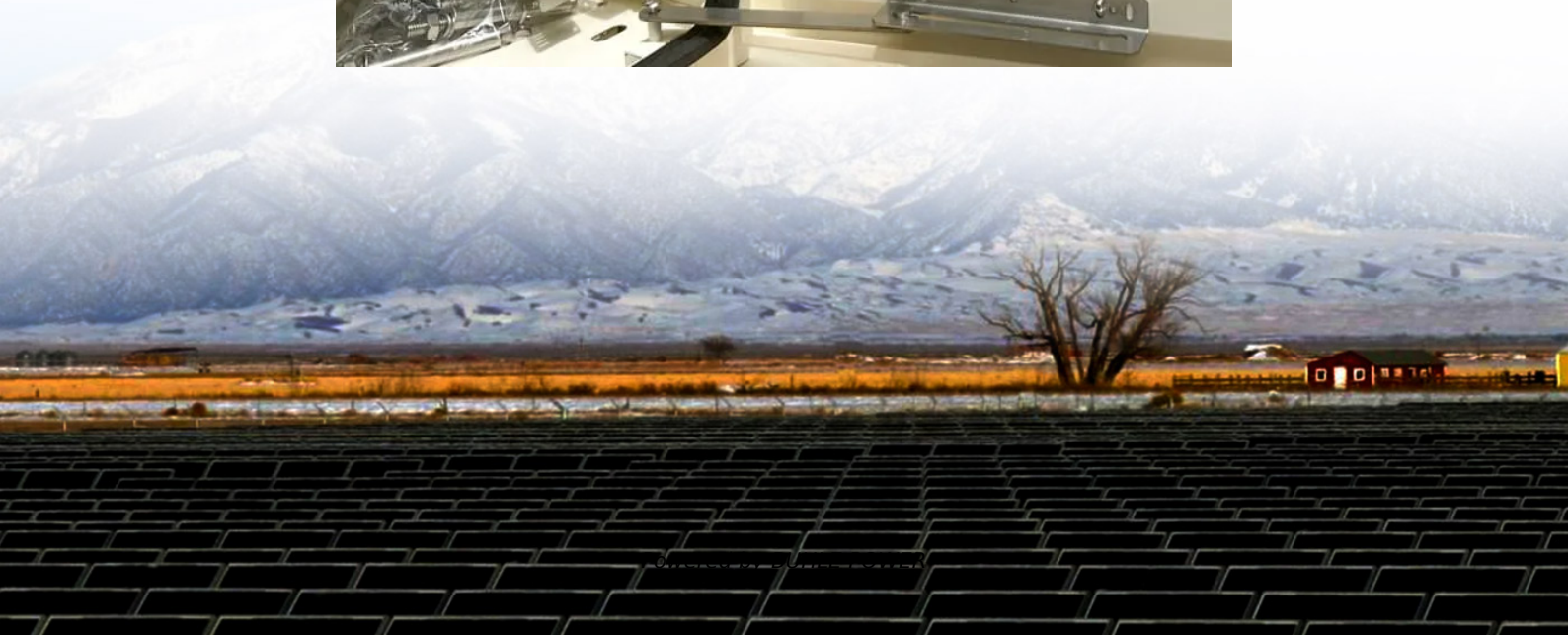


# **Oman Solar Power Generation System**





## Overview

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Does solar PV work in Oman?

In Oman, as a demo Zero energy building is constructed and solar PV performance on ZEB was analysed in some research papers [26, 27]. A 20 kW solar PV is installed on the rooftop of ZEB building located at Sultan Qaboos university and analysed the building energy performance and energy balance.

Does Oman have solar power?

Oman is blessed with abundant solar and wind energy resources, which strengthens the confidence to establish the solar PV systems throughout the Sultanate of Oman. It experiences the average 8 h of sunshine per day during winter and up to 15 h per day during summer, with an average radiation per day approximately 5 kWh/m<sup>2</sup>.

Which energy source contributes the most to electricity generation in Oman?

In Oman, natural gas contributes the maximum share to electrical power generation. The cost of avoided carbon emission due to the solar PV generation system [81, 82] can be calculated in terms of social cost of carbon (C C O<sub>2</sub> a v o i d e d) by the following equation (26).

Is investing in solar energy profitable in Oman?

Solar energy in Oman is expected to become progressively cheaper in the near future and could offer a good return for investments. The success of solar energy in Oman is merely determined by the government's regulatory policies, fiscal incentives, and public financing.



## Oman Solar Power Generation System

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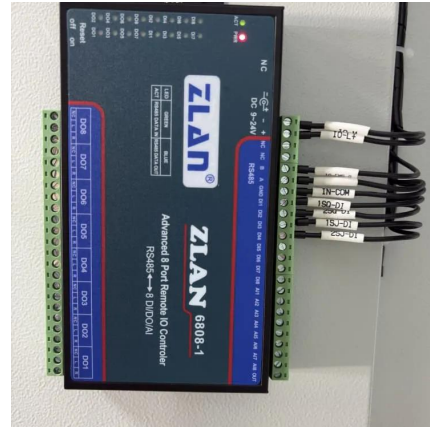






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