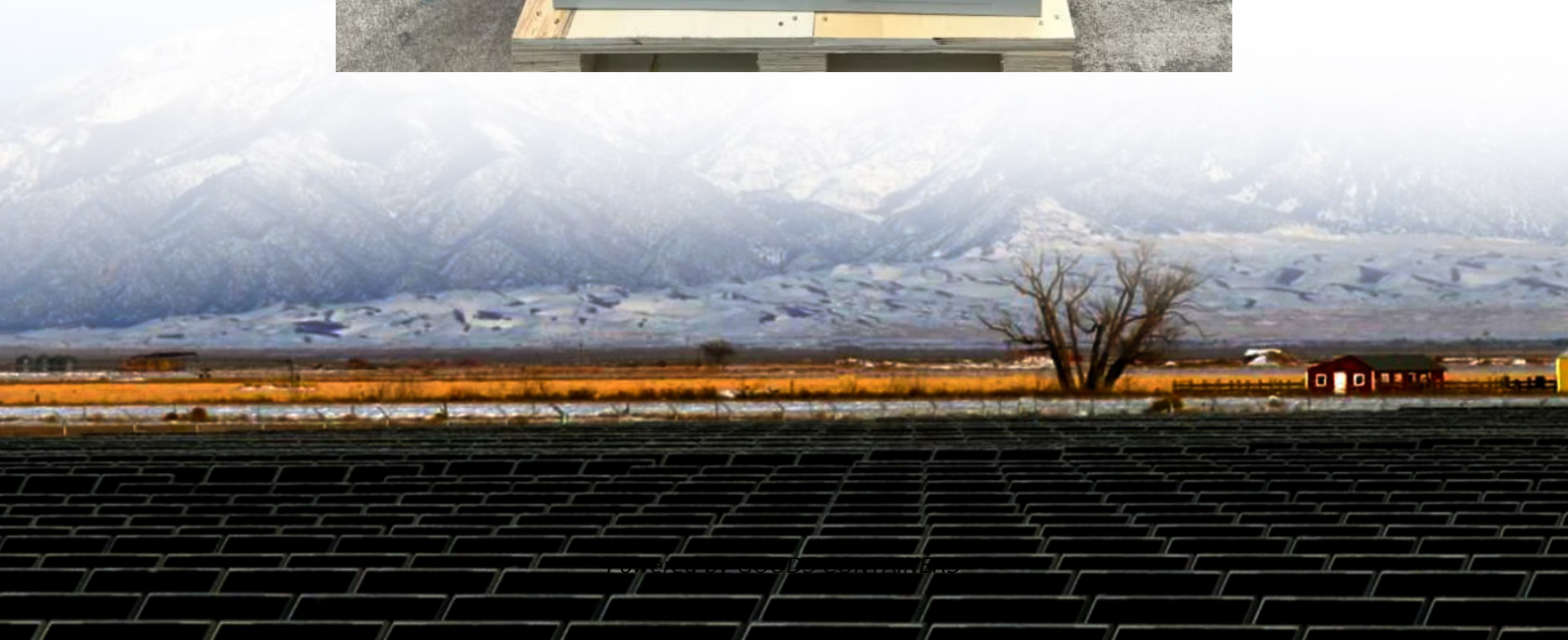


# **Muscat Villa Solar Power Generation System**





## Overview

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Which areas in Oman are suitable for solar PV projects?

The Northern part of Oman, coastal areas and Salalah are the most populated areas in Oman, which are suitable for solar PV projects. Off-grid solar PV projects are suitable for the central areas of Oman. Fig. 3. Population density of Oman. Source: NCSI, Oman. 2.5. Discussion on solar PV project suitability in various regions across Oman.

How much does solar PV cost in Oman?

Fig. 18. LCOE of solar PV for various UTAS branches. Electricity generation in Oman mostly depends on natural gas, with the estimated Levelized Cost of Electricity (LCOE) ranging from \$30 to \$40 per megawatt hour, as stated in a report by the International Energy Agency.

Does dust accumulation affect solar PV performance in Oman?

Dust accumulation and soiling of solar panel affects the solar PV performance significantly. In Oman, there are many factors to cause dust accumulation, such as emissions from power plant chimneys, smelters from the industry, movement of vehicle and sandstorms.

Is a rooftop PV-Grid independent system feasible in Oman?

A rooftop PV-grid independent system is feasible in Oman by considering reduction of energy demand per household, the introduction of support policies and a reduction in battery costs [29, 30]. A 1 MW grid connected solar PV in Adam city, Oman was assessed.



## Muscat Villa Solar Power Generation System

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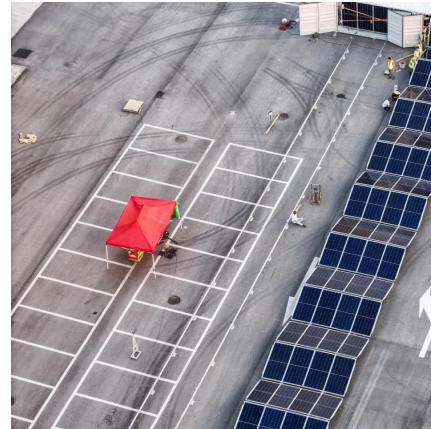
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