

Does Oman have potential for new energy storage





Overview

Building on Oman's efforts to deploy sufficient energy storage capacity to address grid intermittency challenges associated with the renewable energy transition, Oman's authorities have identified approximately 10-11 sites suitable for pumped hydro storage around the country. Can Oman generate 30% of its electricity from renewables?

Oman has embarked on many projects in line with its goal to generate 30% of its electricity from renewables. These projects include a wind farm in Dhofar; two solar IPPs in Manah; 11 solar-diesel hybrid facilities; and the 'Sahim' initiative to install small-scale solar panels on residential and commercial buildings, among others.

How has Oman restructured its energy sector?

In 2018, Oman restructured its utilities sector, making the Ministry of Oil & Gas (MOG) the main policymaker for all energy projects, and the MOG has also led on the implementation of several renewable energy projects.

Is Oman ready for a return to a stable electricity supply?

In recent years, following energy market reforms, Oman has become accustomed to having a relatively reliable and stable electricity supply. However, today with rapidly rising demand, a return to the days of unscheduled power outages and voltage fluctuations could just be round the corner.

What is the solar power potential in Oman?

Oman receives a tremendous amount of solar radiation throughout the year, which is among the highest in the world. There is significant scope for harnessing and developing solar energy resources throughout the Sultanate.

How much energy does Oman produce?

In 2011, Oman has produced a total amount of 73,508 ktoe of energy, which is



about 3,078 PJ or 854,898 GWh. Its sole energy sources are crude oil (65%) and gas (35%). Oman has no other energy sources, such as coal, nuclear power, heat, or renewable energy. The following table provides an overview of Oman's energy production in 2011.

What percentage of Oman has access to electricity?

According to the World Bank, access to electricity amount to 98.0 %. The Oman Power and Water Procurement Company (OPWP) is the planning body for power supplies in the country. OPWP is responsible for securing electricity and water production capacities in the country and the single buyer of power and water for all IPP/IWPP projects.



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