Alternative energy storage systems Yemen

The main aim of this research is to give an economic comparison of renewable energy sources and their storage (as hybrid systems) with other sources used in Yemen, which is the fossil fuel that Yemen depends on for electricity production.

In Yemen, less than half of the population has access to electricity. In 2010, the government launched a National Strategy for renewable energy and energy efficiency, which aims to develop grid and off-grid renewable energy and targets a 15% share of rene

The paper encourages the utilization of PV system in Yemen as a clean energy option, confirms the cost effectiveness of the system for rural electrification. It is also demonstrates the design procedure of the system using number of subsequent cases typical to Yemeni communities, and provides a practical study to support Bedouins backpackers.

This paper documents the potentials of renewable energy (solar, wind and geothermal) as one of the most important alternatives for solutions most of the power problems in Yemen. The barriers and challenges facing the implementation of renewable energy investment projects in Yemen has been clarified.

Accordingly, this paper aims to study the potential for renewable energy in Yemen and assess the technical and economic feasibility of hybrid energy systems. Firstly, this paper introduces the status and challenges of Yemen"s electricity sector, the status of renewable energy, and the status of GHG emission.

This study investigates the factors that promote the expansion of renewable energy technologies at the rural and national levels in Yemen, as well as the challenges that impede the development of renewable energy techniques and recommends modern tools to meet Yemen"s current and future needs.

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