

# Jordan grid-connected wind power generation system





## Overview

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How is wind energy used in Jordan?

In Jordan, the use of wind energy production is being taken into consideration due to the international trend of the exploitation of renewable sources of energy. Two small size wind power plants were installed. The first wind power plant is Hafa power plant. It is located in the North of Jordan, less than 92 km away of Amman.

How does the power grid work in Jordan?

In the north, the power grid is connected to the Syrian grid by means of a 230-kV and a 400-kV power line. In the south, there is a 400-kV connection to the Egyptian grid. The interconnected grid feeds the local distribution systems via which almost the entire population of Jordan receives its electricity.

Which Jordanian site is suitable for wind farm power generation?

The present research investigates the most suitable Jordanian site for wind farm power generation. The following conclusions are made: 1. Ras Moneef site has the highest values of wind potential, total energy produced, and annual net profit among all other sites investigated. It has the lowest cost of generating 1 kW h of wind energy. 2.

Could a hybrid system of windmills and solar arrays be possible?

Because of the government enthusiasm to promote renewable energy, a thorough investigation has been conducted to study the possibility for a hybrid system of windmills and solar arrays for electricity generation. Data collected over many years by the JMD has helped in locating the sites for both windmills and solar arrays.



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Power Quality Issues on Jordan Wind Farm Connected to ...

Managing these power quality issues is crucial for ensuring the stable operation of the electrical grid [6]. Engineers and operators in Jordan employ advanced monitoring and control systems ...

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Photovoltaic Dominance Over Wind in Grid-Connected Hybrid Systems...

Abstract Objectives This study evaluates the feasibility of a grid-connected hybrid photovoltaic (PV)/wind power plant in Ma'an, Jordan, as a response to rising electricity demand and ...

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Wind-Solar Hybrid Electrical Power Production to ...

Dec 24, 2013 · Abstract: The paper presents the next generation of power energy systems using solar- and wind-energy systems for the country of Jordan. Presently with the oil prices are on ...

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Impact Study of Wind Generation on power quality of ...

Jun 3, 2017 · Jordan is a small and ambitious country trying to embrace renewable energy. Jordan Wind Farm (JWF) is the first wind power generation project in Jordan was carried out ...

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(PDF) Power Quality Issues on Jordan Wind Farm Connected to Grid System

Jun 1, 2025 · This paper presents a comprehensive research endeavor focused on evaluating the influence of renewable energy, particularly wind power, on power quality within the context of ...

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Architectural Roof-Integrated PV Systems These roof-integrated photovoltaic systems provide a dual benefit: structural coverage and clean power generation. Tailored for building-integrated ...

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Techno-Economic Feasibility Analysis of Grid-Tied PV ...

Other studies focused on wind power systems for electricity generation. Reference [6] investigated the techno-economic feasibility of a grid-connected wind farm in Jordan using MATLAB.

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Integrating hybrid wind-PV system for reliable electricity generation

Mar 31, 2025 · The system, designed for two days of autonomy, includes 20,350 PV panels (300 Wp each) and 81 wind turbines (100 kW each). Results indicate that wind power is more ...

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(PDF) Power Quality Issues on Jordan Wind ...

Jun 1, 2025 · This paper presents a comprehensive research endeavor focused on evaluating the influence of renewable energy, particularly wind ...

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Impact of large PV and wind power plants on voltage and ...



Jan 1, 2018 · The impact of integrating large photo voltaic (PV) and wind power (WP) renewable energy plants (REPs) to the national grid of Jordan is presented. The capacity of the national ...

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Wind Power Generation in Jordan: Current Situation and Future ...

Oct 11, 2019 · With this law, and for the first time in Jordan, investors had the opportunity to identify and develop renewable grid - connected electricity production through the Direct ...

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