SolarInnovate Energy Solutions

Syria Wind Power and Energy Storage Project

Overview

Can Syria match all-purpose energy demand with wind-water-solar (WWS)?

This infographic summarizes results from simulations that demonstrate the ability of Syria to match all-purpose energy demand with wind-water-solar (WWS) electricity and heat supply, storage, and demand response continuously every 30 seconds for three years (2050-2052).

Why is wind energy investment important in Syria?

So the great importance of wind energy investment in Syria, especially in the Al-Harah and the Gbaghb regions. The results show that the E70 71m 2300 kw is the optimal turbine in all areas (from the places under consideration), both in terms of the highest efficiency and the lowest energy cost.

Is there a wind potential in Syria?

Notably, there are many projects under construction now, which will support electric net by 2600 MW nearly. Theoretical wind potential in Syria is estimated by 80000 MW nearly. By primary evaluation of promising areas, we find that the actual wind potential is close to theoretical one.

How many hours a year do wind farms operate in Syria?

In case wind farms of 2500 MW capacity are installed in areas of appropriate wind speeds in Syria in accordance with wind data in such areas; and presumably , such stations will operate 2500 hours annually on average out of 8760 hours annually .

How many wind surveillance stations are there in Syria?

Currently, installing wind surveillance stations is increasing in the promising areas gradually by installing 25 stations. There are many projects under construction in different Syrian areas such as: Higani, and Sughni with 50-100 MW for each location. Now companies wishing to execute such project are being evaluated.

What is the solution to Syria's energy problems?

Various studies show that the remaining oil and gas reserves are limited, and most deposits are difficult to recover . The solution to Syrian energy problems is possible with the large-scale development of renewable energy (primarily solar and wind).

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