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Syria Energy Storage Wind Power



Overview

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

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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 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.

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.

What is a law of preserving energy in Syria?

Full exploitation of new and renewable energy resources in both demand and provision altogether. 2-1- Government Policy to deal with this energy fact in Syria: President Bashar Al-Assad issued law no. 3 of 22-2-2009 (law of preserving energy). The aims of such law are: - Supporting economic and social development in Syrian Arab Republic.

How much SYP does Syria need?

Everyday Syria needs 500 million SYP as a fuel cost for electric generation stations, which is equal to 170 billion SYP per year. There are 5.3 million subscribers, each of them receives annual subsidies of 320 US\$.

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