

SolarTech Power Solutions

Iran solar energy storage power station



Overview

Iran is in talks with several leading Chinese companies to develop solar power plants and battery energy storage systems (BESS) as part of its strategy to increase renewable energy capacity, a senior official from the Iran Power Generation, Transmission and Distribution Company (Tavanir) announced. Does Iran have a solar power plant?

Iran now is the world's 14th biggest of solar power plants. The country's total potential for producing solar and wind energy is estimated to be around 40,000 GW h and 100,000 MW h . Electricity production in Iran was about 212.8 (billion kW h) and electricity consumption was 206.7 (billion kW h) in 2012 , .

Where is Iran's biggest solar power plant located?

Iran officially inaugurated the country's biggest solar power plant on August 27, 2014 in Malard—which is located in Central Alborz province (Fig. 15). The peak power of the plant is 190 MW h per year.

What are solar powerhouses in Iran?

Nowadays, solar powerhouses in Iran are mainly PV with the capacity of about 0.1% of whole reproducible capacity of the country which has been raised to be compared with the previous years.

What are some important solar projects in Iran?

The Yazd integrated solar combined cycle power station is another important solar project in Iran which is a hybrid power station situated near Yazd, which became operational in 2009 , , , , , , , , , . It is the world's first combined cycle power plant using solar power and natural gas.

How much solar radiation a year in Iran?

Calculations have shown that the amount of actual solar radiation hours in Iran exceeds 2800 h per year , , , , , , . Given the area of the country and solar

radiation of the year, it is necessary to build more solar power plants for saving in excessive consumption of fossil energy , , .

How much solar energy does Iran produce a day?

Iran's total area is around 1600,000 km² or 1.6×10^{12} m² with about 300 clear sunny days in a year and an average 2200 kW-h solar radiation per square meter. Considering only 1% of the total area with 10% system efficiency for solar energy harness, about 9 million MW h of energy can be obtained in a day.

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