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Environmentally friendly solar energy system application in North Africa



Overview

What is the potential of solar energy in North Africa?

Hence, the resource of solar energy is rich in North Africa, and the potential is quite large to build solar power generation base in the most of North Africa region countries, such as Morocco Tunisia, Algeria, Egypt [1]. In recent years, North African economy is continued to grow steadily and energy demand is accelerated.

Why is North Africa rich in solar energy?

The North African region is rich in solar energy and is close to European continent. It is in line with the concept of the global energy interconnection to transport clean energy and electricity through transcontinental power connection. The development mode and scale of each country in North Africa are determined by economy of solar development.

Does photovoltaic technology provide electricity in Africa?

One of the promising aspects of photovoltaic technology was providing household electricity in developing and emerging countries . However, the fact remains that in resource-rich Africa, North Africa in particular, one of the lowest components in electricity generation is renewable energy.

How much does a solar PV project cost in North Africa?

The NPC for the PV-based solar schemes planned to be founded in Libya, Tunisia, Algeria and Morocco were determined to be about US\$3.14B, US\$16.8B, US\$13.9B and US\$13.1B, respectively. The COE and unmet electric loads of the examined twelve PVs across the four remaining North African countries are depicted in Fig. 5, Fig. 6.

What type of energy is used in Africa?

Gas and oil (6% of total in Africa) dominate in north African countries, whereas coal is mainly exploited in South Africa. Nuclear (2% of total in Africa) and

geothermal power (1% of total in Africa) have a minor role in the continental electricity generation mix.

What is the economic analysis of solar energy development?

The economic analysis of solar energy development is the basis of promoting the solar energy planning in north Africa and realizing the clean energy power transmission among continents.

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