

ContainerPower Energy Solutions

Algeria s new energy storage configuration ratio



Overview

The installed ratio of new energy is 20%, the configuration of energy storage is 20%, and the duration of the energy storage is 2 h. How is Algeria diversifying its energy sector?

Algeria is progressing with its strategy to diversify its energy sector, with a focus on a balanced mix of renewable energy, green hydrogen and traditional oil and gas development.

Does Algeria have a strong energy supply?

Fossil fuels maintain a significant role, highlighting Algeria's dependence on hydrocarbons. Meanwhile, the share of renewables (solar+ wind) rises, reaching 24% of the total energy supply by 2070 (from 4% in 2040). Primary energy supply under the BAU scenario.

Is the times-DZA model applicable to Algeria's power and gas system?

Chabouni N (2022) Long-term energy prospective modeling: development and application of the TIMES-DZA model to Algeria's power and gas system for the horizon 2070. *Economie et statistique Appliquée, ENSSEA (Thesis), Algeria.*

Will Algeria's energy system be decarbonized by 2070?

The analysis of the decarbonization scenario for Algeria's energy system has unveiled an expected shortfall in gas and hydrogen supply by 2070. These shortages pose challenges in meeting final energy requirements, as depicted in Fig. 10.

Does Algeria need more shale gas?

Due to limitation in expertise and infrastructure, Algeria faces constraints in shale gas extraction. Aligning with the SH2030 target, we derived a scenario projecting additional shale gas capacity based on the country's natural gas production growth rate (2011–2021), set at 2.4% in the latest BP Statistical Review of World Energy (BP 2022).

When will Algeria's solar power plant be completed?

With completion expected by late-2025 or early-2026, the plant is set to support Algeria's energy grid with a capacity of 362 MW. In the same month, China State Construction Engineering Corporation began construction of a 300 MW solar power plant in Ouargla Province, as well as a 200 MW solar power plant in El M'Ghair.

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