

Can Algeria supply Europe with dispatchable solar electricity?

Several key factors that can make Algeria an attractive place to supply Europe with dispatchable solar electricity have been identified and discussed. The factors have been identified from the European perspective and can be used to analyze the potentials of neighboring countries.

How much solar power does Algeria need?

Algeria currently has around 450 MW of solar capacity installed and would need to deploy 5000 MW by 2028 to meet its 2030 target of 22,000 MW. Fig. 11. Renewable energy program (data Source: MEM). Fig. 12. Renewable energy installed capacity (MW Share) in the new program.

Should Algeria export solar electricity?

While the export of solar electricity holds promise, it requires careful consideration of its potential adverse effects on the Algerian economy and energy security. Therefore, adopting a meticulous and balanced approach to electricity exports is essential to mitigate these impacts and ensure long-term economic stability and resilience in Algeria.

Can Algeria become a major energy hub of Europe?

Conclusion The paper clearly shows that Algeria has the potential to become the major energetic hub of Europe in fossil and renewable energies. The country has enormous potential both for solar and wind energy, where the government has consistently set ambitious programs for energy efficiency improvement and renewable energy development.

Can Algeria become a key energy supplier for Europe?

With the right strategies in place, Algeria can secure its role as a pivotal energy supplier for Europe and a leader in the global energy transition.

Does Algeria have a high solar radiation potential?

According to the Center for the Development of Renewable Energies (CDER), data collected in the renewable energies guide report by the Ministry of Energy and Mines (MEM) indicate that Algeria has a high solar radiation potential, among the highest in the world (MEM, 2007). Fig. 4.

A successful path forward for Algeria's energy sector will depend on three key areas: public-private partnerships, infrastructure investment and regulatory efficiency. Strengthening collaboration between Sonatrach, Sonelgaz and international energy players is essential to driving major initiatives like the South H2 Corridor and scaling renewable ...

The Algerian energy minister, has reaffirmed his desire to "invest in hydrogen", an energy source presented as one of the solutions to the climate crisis. In October 2021, Algeria launched a hydrogen plan worth several



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billion dinars, including 100 million for research, to enable the country to develop "green" hydrogen, i.e. produced ...

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Algeria has launched an ambitious program to develop renewable energies and promote energy efficiency to diversify its energy sources in order to meet surging domestic demand and eventually export energy to European countries.

Algeria, which controls nearly 4.5 trillion cubic metres of gas, approved the programme in 2020 as part of a drive to reduce reliance on conventional energy sources and save its oil and gas wealth. According to the plan, the projects will produce 15,000 Mw by 2035 including nearly 4,000 MW by the end of 2024.

The plan includes three substantive pillars: a National Energy Conservation and Efficiency Program, a National Renewable Energy Development Program, and a new National Energy Mix Model. Energy conservation and efficiency efforts will improve energy efficiency by ten percent annually in transportation, housing, and industry.

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In this chapter, we explore the contributions to SDG 7 and SDG 13 offered by three alternative energy pathways designed for Algeria using TIMES-DZA, a bottom-up energy systems optimization model widely employed for informing public policy decisions related to energy planning.



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