

To ensure a resilient electricity network, Tunisia is investing in modern, secure infrastructure. The ELMED interconnection project, which will link Tunisia to Italy by 2028, will play a key role in ...

This study explores the techno-economic feasibility of, both off-grid and on-grid, hybrid renewable energy systems for remote rural electrification in Thala City, located in the highest region ...

This study proved that the implementation of this type of project allows for clean and economical solutions, and for the continuous production of electricity in Tunisia, even during periods of load ...

To deal with this problem, this research first reviews the real-world and simulation cases of zero-carbon microgrids in recent years and classifies them into two categories, i.e., on-grid mode ...

In June 2023, the World Bank approved US\$268.4 million in financing for the Tunisia-Italy interconnector (ELMED) project that will link energy grids between Tunisia and European markets, ...

The Tunisia 1.5°C (T-1.5oC) scenario is designed to calculate the efforts and actions required to achieve the ambitious objective of a 100% renewable energy system and to illustrate the options available to ...

This project focused on three components: (i) improving infrastructure assets, (ii) rolling out smart grids to balance power supply with demand, and (iii) enhancing financial payment flows by ...

The Tunisian government has adopted an energy transition policy that includes multiplying the contribution of renewable energy tenfold within twelve years. To successfully make the transition, the ...

Microgrid operation tunisia Italian multinational energy corporation ENI is building an off-grid, solar-storage microgrid at an oil and gas facility in Tunisia and integrating it with existing, on-site natural ...

This microgrid will be digital by design, relying on IoT-connected devices, local controllers (e.g. ESP32), and a cloud-integrated EMS capable of real-time load and generation forecasting via LSTM models, ...

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