# Zero-carbon smart microgrid in Sousse Tunisia



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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 ...

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., ...

Sousse inaugurates its first green energy plant that generates power from household waste, marking a significant step towards sustainable development and ecological ...

"Smart grid" is a concept with many elements where monitoring and control of each element in the chain of generation, transmission, distribution and end- use allow the electricity delivery and ...

This paper aims to analyze the techno-economic and environmental feasibility of a solar PV microgrid system which is able to supply the load during both grid availability and ...

In the first part, the proposed smart grid optimal sizing is determined under real weather data (solar radiation) of the city of Sousse, Tunisia, using the Hybrid Optimization of ...

This article investigates the characteristics, operation and challenges of zero carbon microgrids, including size, generation from renewable sources, energy balance, and ...

Anticipated advancements in smart microgrids will revolutionize Tunisia"s industrial zones, targeting a 50% reduction in carbon emissions and a 75% increase in energy efficiency by 2056.

The ELMED interconnection project, which will link Tunisia to Italy by 2028, will play a key role in

stabilizing energy supply, while supporting the energy transition in Tunisia and Europe.

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