

ContainerPower Energy Solutions

The role of solar power generation and energy storage in Malta



Overview

This article outlines Malta's renewable energy laws, key authorities, incentives, and permitting process, with a focus on solar energy and emerging opportunities— ideal for developers and investors in the clean energy sector. Is nuclear energy a viable alternative to solar energy in Malta?

Furthermore, while solar is a natural fit given Malta's climate, considering nuclear energy could offer a consistent and reliable source of clean energy.

Does Malta have low-carbon electricity generation?

Malta's history of low-carbon electricity generation, particularly through solar power, reveals a clear pattern of stagnation until recent years. From 2010 to 2024, solar electricity generation remained constant without any additional input, highlighting a period of missed opportunities for growth and innovation in the last decades.

How much energy does Malta use?

Currently, Malta's electricity consumption is heavily dominated by fossil energy, with more than half of its electricity, approximately 58%, generated from fossil fuels. Gas is the primary contributor, representing nearly all of the fossil energy used.

Is electricity consumption on the rise in Malta?

Electricity consumption in Malta is on the rise, reflecting an encouraging trajectory towards growth. The latest data for 2024 indicates electricity consumption at 5850 kWh per person, surpassing the previous record set in 2023 by a noteworthy increase of 277 kWh per person.

What is the main source of energy in Malta?

Gas is the primary contributor, representing nearly all of the fossil energy used. In addition, Malta relies significantly on net imports, accounting for almost a third of its energy supply.

Does Malta have an offshore wind project?

Malta has also taken important steps to explore offshore renewable energy potential. While no offshore wind projects have yet been commissioned, consultations and preparatory tenders have generated interest from international stakeholders.

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