



# Expected ROI of off grid solar storage project in Cyprus 2026

How many energy storage applications have been approved in Cyprus?

The Cyprus Energy Regulatory Authority (CERA) representatives reported establishing a regulatory framework for energy storage in 2019, followed by market rules approval in 2021. The Cyprus Transmission System Operator has received 13 storage applications totaling 224 megawatts capacity, with eight applications processed and five under review.

Why does Cyprus have a lack of solar energy?

**Lack of Storage:** Unlike other countries with hydroelectric dams or large battery storage facilities, Cyprus has nowhere to store excess solar energy during peak hours. **Grid Congestion:** In some areas, distribution lines can't handle the extra electricity being pushed into them, forcing operators to curtail solar production.

What is happening with solar energy in Cyprus?

**Curtailment Issues & Grid Limitations** - Recent articles highlighting curtailment of excess solar energy due to grid instability. The magnitude of the curtailment problem in Cyprus - In 2024, 29% of green electricity was curtailed. This is equivalent of the total annual consumption of approximately 28,000 households.

What happens if you put solar energy into the grid at the same time?

Here's what that means in practice: **Voltage Instability:** When thousands of households inject solar energy into the grid at the same time, voltage levels can spike, leading to power quality issues and potential damage to infrastructure.

**Expected Profits from Solar Energy Investments** The profitability of investing in solar energy systems in Cyprus varies based on several factors, including installation size, electricity consumption, and local grid connectivity.



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