



Average BESS price per 5kW in Iran

How much does a Bess battery cost?

Factoring in these costs from the beginning ensures there are no unexpected expenses when the battery reaches the end of its useful life. To better understand BESS costs, it's useful to look at the cost per kilowatt-hour (kWh) stored. As of recent data, the average cost of a BESS is approximately \$400-\$600 per kWh. Here's a simple breakdown:

How much does Bess cost?

The cost of BESS has fallen significantly over the past decade, with more precipitous drops in recent years: This is nearly a 70% reduction in three years, owing to falling battery pack prices (now as low as \$60-70/kWh in China), increased deployment, and improved efficiency.

How much energy does Iran use a year?

Energy consumption has stabilised since 2018 and stood at 274 Mtoe in 2021. It grew by +3.7%/year between 2010 and 2018. Iran aims to develop its hydrocarbon resources, particularly its gas exports, which have been slowed due to the COVID-19 pandemic in 2020, on top of the renewed US sanctions and increased geopolitical tensions.

How will Iran's power exports be multiplied by a factor of 7?

The country plans to multiply power exports by a factor of 7 by 2026. Iran is the world's 9th largest CO₂ emitter. The power sector is controlled by state-owned companies Tavanir, TPPH, and WRM. Iran has the world's second largest gas reserves, about 40% of which comes from the South Pars field.

The previous version of the forecast capped BESS buildout at a rate of 3 GW per year, constrained by the availability of installation contractors. In version 3.3, installation capacity grows each year, meaning capacity comes online more ...



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