

# Total investment cost of warehouse solar storage project in Iran

Why does Iran have a low storage capacity?

In terms of storage, the low installed capacities can be explained by the fact that Iran has a high availability of RE sources, particularly wind energy, solar PV and hydropower, which can produce electricity all-year-round (Fig. 6). The total storage capacities soar from 9.7 TWh in the country-wide scenario to 110.9 TWh in the integrated scenario.

Is solar energy a viable option in Iran?

The potential for PV is extremely high in Iran, mainly due to having about 300 clear sky sunny days per year on two-thirds of its land area and an average 2200 kWh solar radiation per square meter (Najafi et al. 2015).

Is LCOE a competitive cost for 100% RE energy systems in Iran?

From Table 11, it can be seen that the total LCOE for both analyzed scenarios are low. However, the integrated scenario shows a much more competitive cost for 100% RE energy systems for Iran in the year 2030. An 11% decrease in total LCOE can be observed in the integrated scenario due to a reduction of all estimated levelized costs (Fig. 5).

What is the energy system based on RE generation & energy storage technologies?

In the country-wide scenario, the energy system based on RE generation and energy storage technologies covers the country's power sector electricity demand. The total annual cost and the total capex required to generate 377.7 TWh are 15 and 167 bEUR, respectively.

How does the Integrated Scenario affect the cost of electricity?

In the integrated scenario, the renewable energy generated was able to fulfil both the electricity demand of the power sector and the substantial electricity demand for water desalination and synthesis of industrial gas. By adding sector integration, the total levelized cost of electricity decreased from 45.3 to 40.3 EUR/MWh.

The Upfront Costs of Solar Installation Having solar installed on your warehouse roof may reduce your monthly energy bills. And solar can provide a great benefit in taking a warehouse into a more sustainable future if planned properly. But ...



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