

# Average rooftop solar storage price per 100MW in Saudi Arabia

Does Saudi Arabia need a rooftop solar PV system?

A key policy insight from this is that current electricity prices for residential consumption in Saudi Arabia are still too low to incentivize the deployment of rooftop solar PV for economic reasons. However, this does not mean that rooftop PV deployment has to be nil.

Could solar rooftop deployment accelerate the decarbonization of Saudi Arabia's power generation mix?

This study explores the extent to which renewable energy, namely solar rooftop deployment, at the residential scale in Riyadh could be cost-efficient and could accelerate the decarbonization of the Saudi Arabian power generation mix.

Do homes in Riyadh have enough roof space to install solar panels?

Both, the villa and the traditional house types have sufficient roof space to install solar panels. This study assumes that householders living in apartments or occupying a floor of a house or villa do not have sufficient space to install a solar rooftop. Villas and traditional houses represent 66.2% of all housing units in Riyadh.

How much solar power does Riyadh need?

According to the model used in this study, and using the same average electricity price, residential solar deployment in Riyadh would have been around 56.1 MW in 2018. Blazquez et al. (2017) point out that shifting power generation from using oil as fuel to using solar power has a positive impact on the Saudi Arabian economy.

Is solar power a good investment for Saudi Arabia?

Blazquez et al. (2017) point out that shifting power generation from using oil as fuel to using solar power has a positive impact on the Saudi Arabian economy. Matar and Anwer (2017) find that PV becomes cost competitive when the price of crude oil reaches \$30 per barrel.

Does PV solar technology affect aggregate welfare in Saudi Arabia?

Blazquez et al. (2017) find that PV solar technology has a positive macroeconomic effect on aggregate welfare in Saudi Arabia. Elshurafa and Matar (2017) analyze the cost of solar energy to the Saudi power system. They suggest that PV solar deployment at the utility scale can reduce system costs.



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