



# Average hybrid renewable storage price per 20kWh in Zambia

What will Zambia's energy demand look like in 2040?

The government anticipates that peak demand will be at 8,000 MW by 2030 and 10,000 MW by 2040 (from around 3,000 MW in 2022). It also projects that the demand will be largely driven by mining and agricultural consumers and not residential consumers as projected in the COSS (Government of Zambia, 2022).

#### 4. Zambia's renewable energy landscape

How much power does Zambia have in 2021?

Thus, the installed capacity in Zambia in 2021 is composed as follows: 2,705 MW in hydro-power (including 1,080 MW for the Kariba complex and 990 MW for Kafue Gorge), 330 MW in coal, 85 MW in diesel, 110 MW in heavy oil and 89 MW in solar. In total, about 84% of the installed capacity is renewable.

Why should German and European service providers invest in Zambia?

For German and European service providers active in the energy sector, Zambia presents significant potential for business development. There are clear needs across the solar energy and storage value chain, including project development and financing, equipment manufacturing, system integration and contracting.

What is PV production & how does it work in Zambia?

In that case, the PV production is used to reduce the electricity bill and/ or the diesel fuel bill. As of 2022, the cost of diesel in Zambia was around USD 1.5/litre (Global Petrol Prices, sd) and the efficiency of a generator varies between 25% and 35% if operated at at least 30% of its capacity (Skylas-Ka-zacos, 2012).

How many GWh did Zambia export in the first half of 2022?

This is also demonstrated by the data from the first half of 2022. According to the figures from the "Statistical Bulletin" of ERB for the months January to June for the year 2022, in the first half of 2022 Zambia saw total exports of 1,199 GWh and imports of 9.6 GWh (ERB, 2022).

How much does electricity cost per kWh (thermal)?

approximately 10 kWh (thermal), the cost per kWh (electrical) generated is USD 0.50. The current price of electricity for the commercial or industrial consumer depends on the ZESCO tariff and on whether the consumer has to make use of a diesel generator as a back-up in case of grid outages.

**Residential Battery Storage** The 2021 ATB represents cost and performance for battery storage with two representative systems: a 3 kW / 6 kWh (2 hour) system and a 5 kW / 20 kWh (4 hour) system. It represents lithium-ion batteries only at ...



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