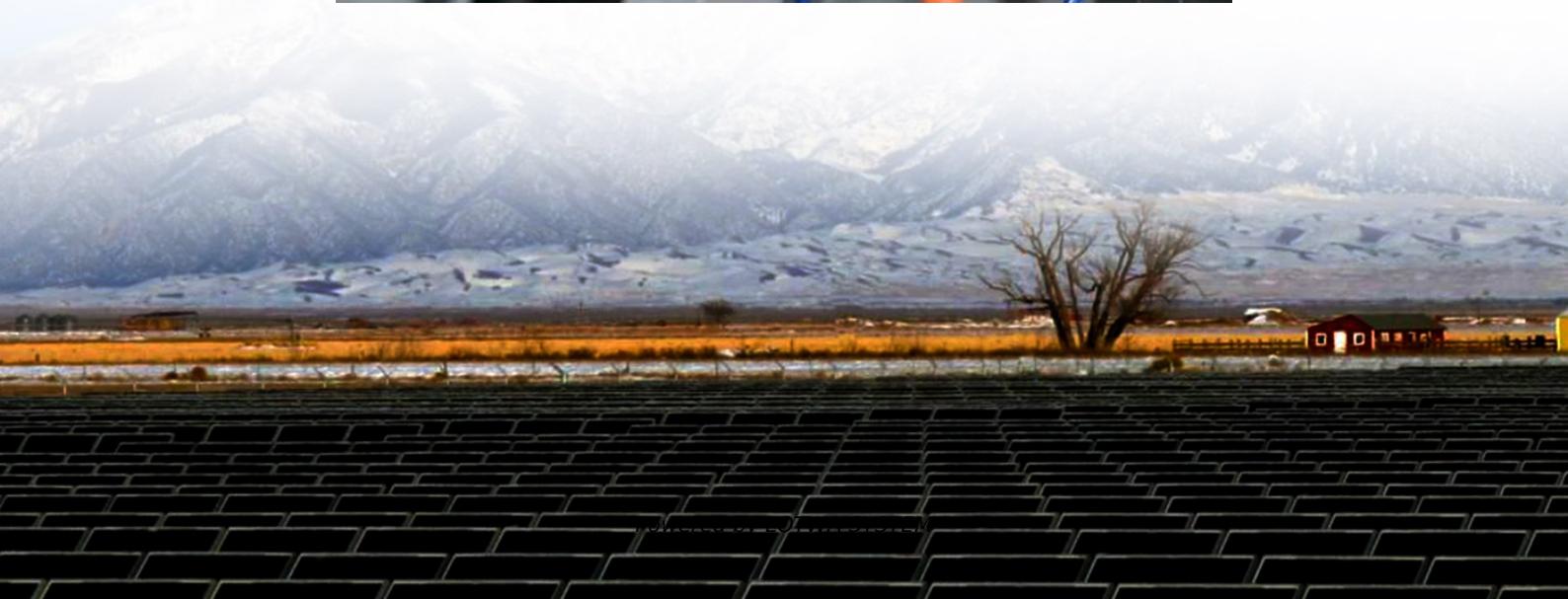
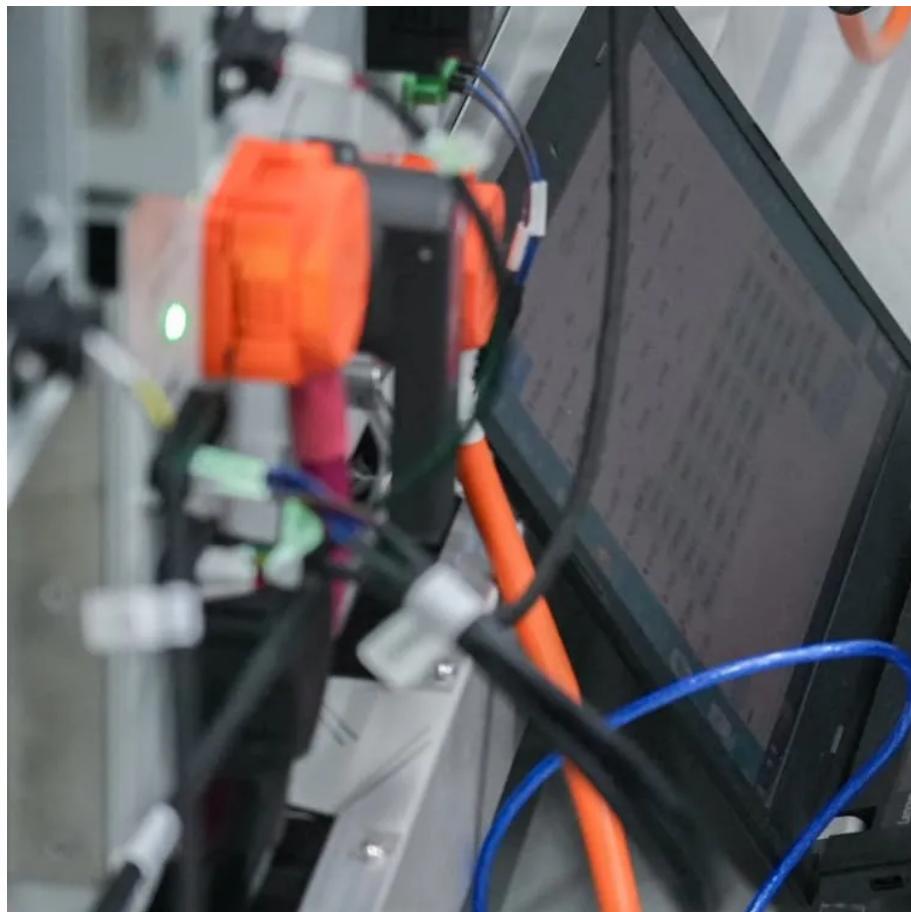




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Base station solar cell price





Overview

How much does a solar base station cost in India?

A typical Indian cellular base station running on diesel can cost up to US\$14,510 per year while a solar-powered base station with battery backup costs only US\$8215 per year. It is expected that while the cost of diesel fuel will exceed US\$20,000 in 2020, the prices of solar technology will continue to fall to less than US\$5500 per year.

What is a solar-powered base station?

A solar-powered base station as shown in Fig. 5.14 consists of a PV powering unit, a base station and a cooling unit. The base station uses radio signals to connect devices to network as a part of traditional cellular telephone network and solar powering unit is used to power it.

How much power does a solar base station use?

Maximum consumption of base station is 2.0 kW and the power generated from the solar panels is 4.19 kW. The high-capacity rechargeable batteries can store between 14 and 16 hours' worth of power when energy from sun is not available.

How much does a cellular base station cost in India?

The industry is also using real-time adjustment to optimize power usage and monitoring renewables by integrating energy monitoring capability into base stations. A typical Indian cellular base station running on diesel can cost up to US\$14,510 per year while a solar-powered base station with battery backup costs only US\$8215 per year.



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