SolarCabinet Energy

# Solar Base Station Issues

## Overview

Are solar powered cellular base stations a viable solution?

Cellular base stations powered by renewable energy sources such as solar power have emerged as one of the promising solutions to these issues. This article presents an overview of the state-of- the-art in the design and deployment of solar powered cellular base stations.

How many solar-powered base stations does Verizon have?

Verizon has about 20 solar-powered base stations. T-Mobile, one of the earliest big carriers to switch on a fully solar-powered cell site in 2011, has added renewables to more sites and sometimes uses solar energy as temporary backup power, a practice that the company said it will expand in the coming years.

How many kilowatts does a cellular base station use?

The average cellular base station, which comprises the tower and the radio equipment attached to it, can use anywhere from about one to five kilowatts (kW), depending on whether the radio equipment is housed in an air-conditioned building, how old the tower is and how many transceivers are in the base station.

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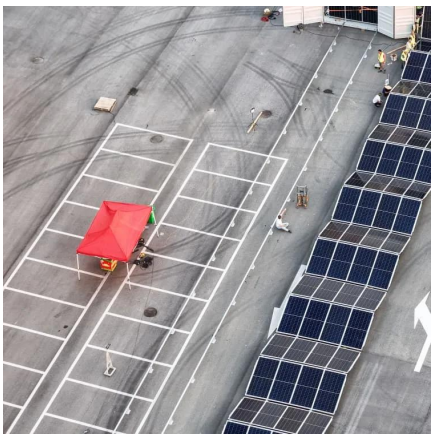

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