

Do mobile base stations use solar energy





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.

Can solar energy be used in cellular base stations?

One obstacle of entry of solar energy to cellular base stations is an intensive power requirement of the current base stations. As a result, the electronic industry is exploring new methods to reduce the power requirements for the electronic equipment used in the base stations.

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.

What are some examples of solar-powered base stations?

Below are some examples of the use of solar-powered base stations for disaster-struck and remote areas. In Vermont, United States, a Canadian border town of Norton maintained communications with the outside world by using a solar panel and battery system on a cell tower during flooding from Tropical Storm Irene in 2011.



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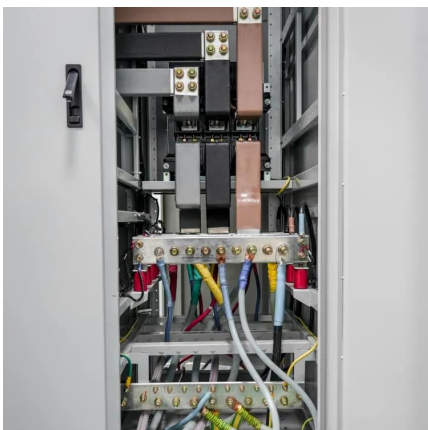


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