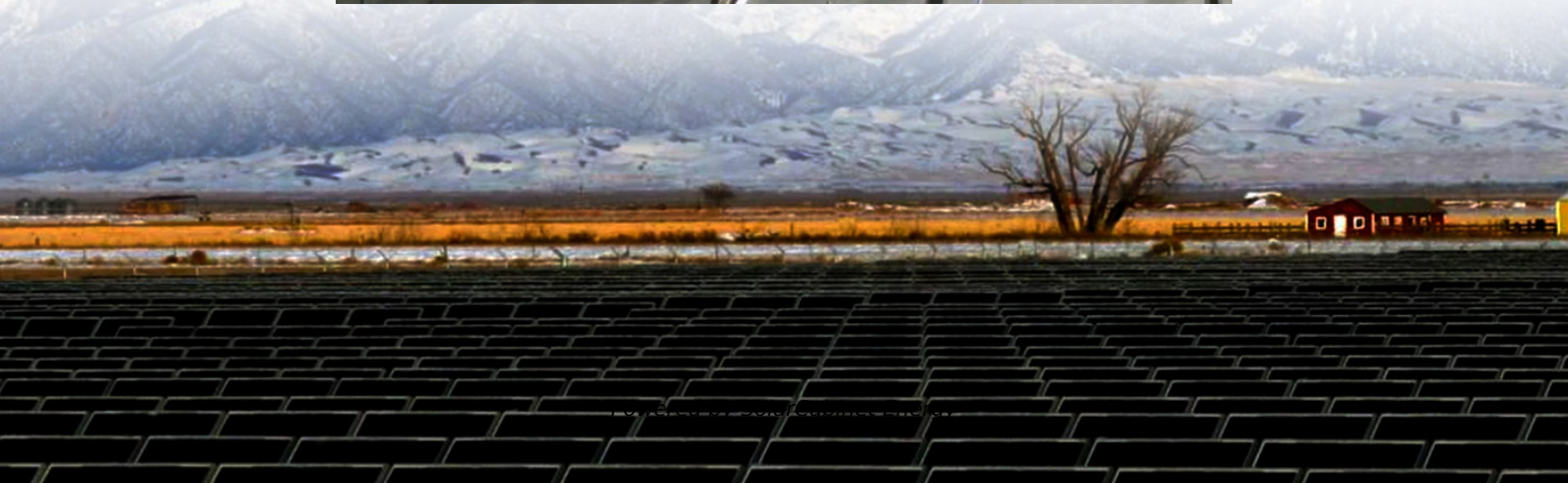


Briefly describe the architecture of the base station power system





Overview

What are the components of a base station?

Power Supply: The power source provides the electrical energy to base station elements. It often features auxiliary power supply mechanisms that guarantee operation in case of lost or interrupted electricity, during blackouts. **Baseband Processor:** The baseband processor is responsible for the processing of the digital signals.

What are the properties of a base station?

Here are some essential properties: **Capacity:** Capacity of a base station is its capability to handle a given number of simultaneous connections or users. **Coverage Area:** The coverage area of a base station is that geographical area within which mobile devices can maintain a stable connection with the base station.

How do you choose a power system architecture?

The various components of a power system can be arranged in different ways. The complexity of the resulting architecture determines the availability of electrical energy and the cost of the investment. Selection of an architecture for a given application is therefore based on a trade-off between technical necessities and cost.



Briefly describe the architecture of the base station power system



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[What is Power System? Definition & Structure of Power System](#)

The power plant of the generating substation is mainly classified into three types, i.e., thermal power plant, hydropower plant and nuclear



power plant. The generator and the transformer
...



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