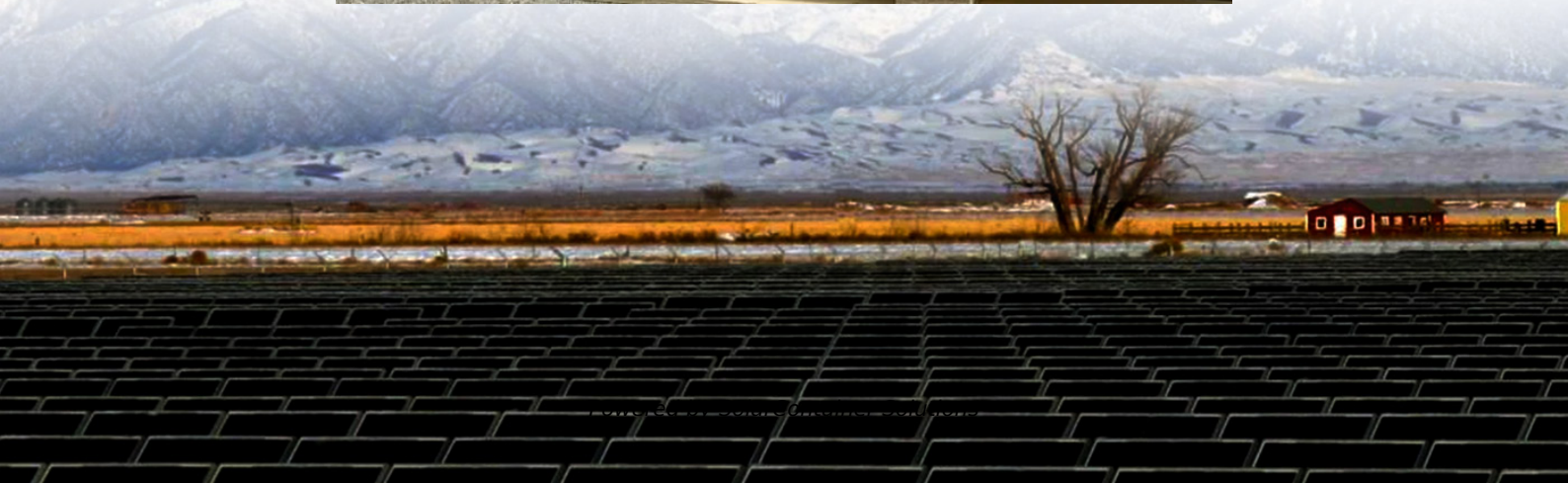


Somalia communication network base station energy method





Overview

What are the standardized energy-saving metrics for a base station?

(1) Energy-saving reward: after choosing a shallower sleep strategy for a base station, the system may save more energy if a deeper sleep mode can be chosen, and in this paper, the standardized energy-saving metrics are defined as (18) $R_{ie} = E_{SM=0} - E_{SM=i}$, $E_{SM=0} - E_{SM=3}$.

What is the power consumption of a base station?

The power consumption of each base station is considered about the number of mobile subscribers and random mobility to minimize the energy-saving cost of the cellular network.

What is the access mechanism between EMCs and BSS?

To describe the access mechanism between the EMCs and the BSSs, we introduce an $N_{bs} \times N_{mg}$ connection matrix A , where N_{mg} is the EMCs number and N_{bs} is the number of power towers which is also the number of candidate locations for base stations. It is not necessary for all power towers to be selected as communication power sharing towers.

What is adaptive base station sleep strategy?

Adaptive base station sleep strategy Adaptive base station sleep strategy is a strategy that dynamically adjusts the sleep and wake-up states of the base station based on real-time network conditions, user demands, and traffic modes.

Why does network sensitivity affect the energy consumption of base stations?

In addition, the high sensitivity of the existing policies to network conditions during the period when the network load is relatively smooth may lead to unnecessary and frequent switching of the sleep mode of the base stations, thus adding non-negligible additional energy consumption.



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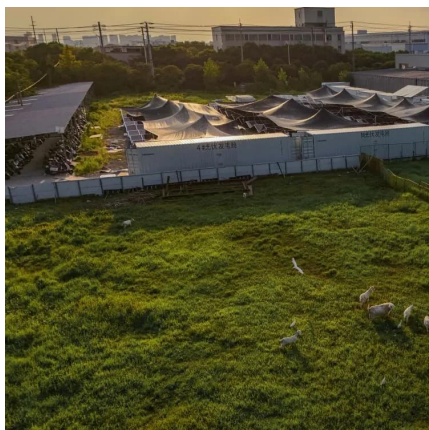
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