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Title: Data center using baghdad solar energy storage cabinet 500kwh

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How to develop a green data center driven by solar energy?

The system parameters are analyzed. In order to develop the green data center driven by solar energy, a solar photovoltaic (PV) system with the combination of compressed air energy storage (CAES) is proposed to provide electricity for the data center. During the day, the excess energy produced by PV is stored by CAES.

What is the PV power consumption of a data center?

During the period from 8:25 to 17:07, the PV power generation is higher than 17.5 MW. Therefore, during this time, the power consumption of the data center can be fully supplied by the PV system, and the excess PV power is used for the charging process of CAES system to compress the air and store the compressed energy.

How much solar power does a data center need?

Thereafter, system performances under design conditions and the effects of system parameters are analyzed. The results indicate that under design conditions, for the 17.5 MW data center, the required solar PV area is 257075 m², and the highest PV power can reach up to 55 MW. The all-day efficiency of the PV system is 18.37 %.

How to establish a green data center?

Conclusions In order to establish the green data center, a PV system driven by solar energy is used to power the data center.

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