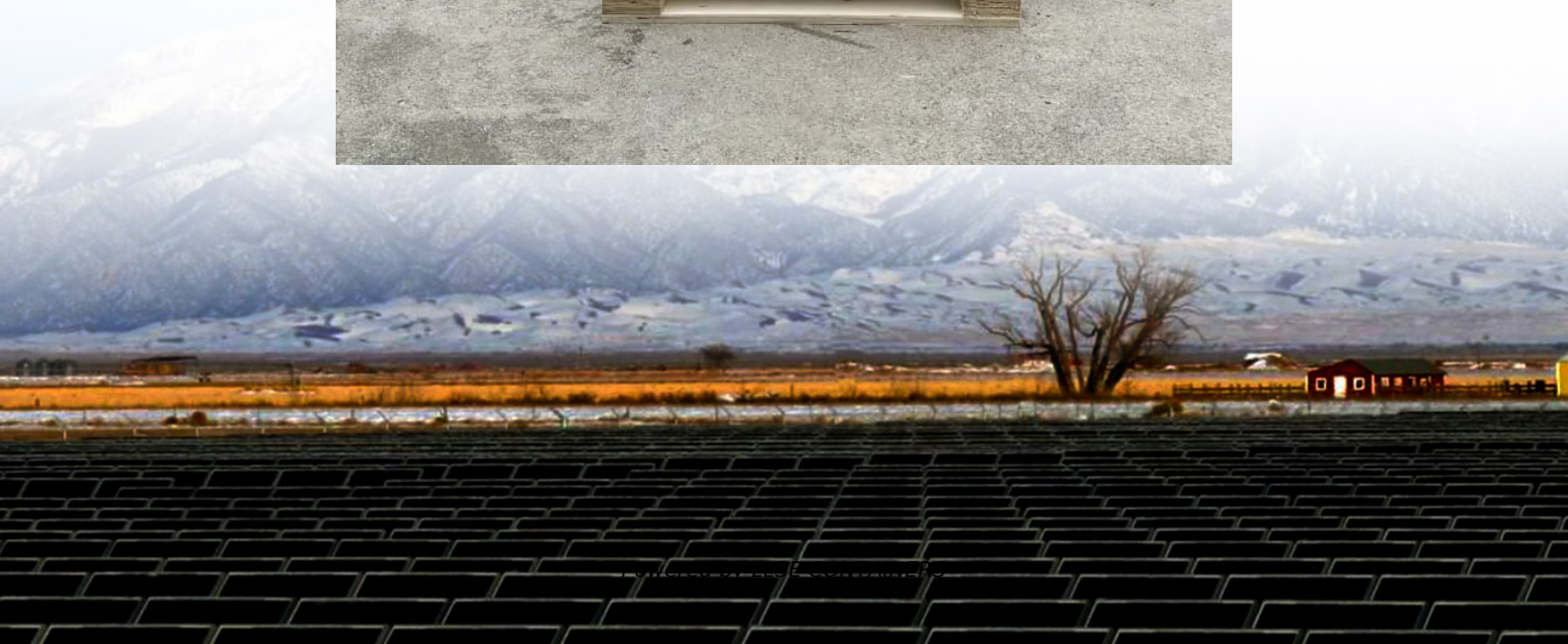


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Overview

The growing penetration of 5G base stations (5G BSs) is posing a severe challenge to efficient and sustainable operation of power distribution systems (PDS) due to their huge energy demand and ma.

What is a 5G photovoltaic storage system?

The photovoltaic storage system is introduced into the ultra-dense heterogeneous network of 5G base stations composed of macro and micro base stations to form the micro network structure of 5G base stations .

Do 5G base stations use intelligent photovoltaic storage systems?

Therefore, 5G macro and micro base stations use intelligent photovoltaic storage systems to form a source-load-storage integrated microgrid, which is an effective solution to the energy consumption problem of 5G base stations and promotes energy transformation.

What is P0 in 5G microgrid?

P0 is the base power consumption generated by the four base stations when there is no traffic load. In the 5G base station microgrid, the traffic of the macro and micro base stations exhibits obvious periodicity in time, and the upward and downward trends are in step.

Does a 5G base station microgrid photovoltaic storage system improve utilization rate?

Access to the 5G base station microgrid photovoltaic storage system based on the energy sharing strategy has a significant effect on improving the utilization rate of the photovoltaics and improving the local digestion of photovoltaic power. The case study presented in this paper was considered the base stations belonging to the same operator.



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