5g base station and charging pile sharing

The rapid deployment of Fifth-generation base stations (5G BSs) in urban communities has led to rising electricity costs for mobile network operators.

To optimize the operating profit of the 5G BS-BSC joint system, the charging/discharging strategy is optimized using the SAC algorithm. The process begins by initializing the policy network, ...

Through this new sharing model, resources such as land, pipelines, and electricity will be integrated to reduce the cost of 5G network deployment. ...

Aiming at the defect of single function of the miaow table or the charging pile in the prior art, the invention provides the charging pile with the 5G base station.

To this end, electricity and communications are "married" to build 5G micro stations on charging piles by sharing power infrastructure.

Its integration of 5G base stations, charging piles, and environmental monitoring systems positions it as a critical element in creating sustainable, high-tech cities.

With the widespread popularization of distributed photovoltaic and new infrastructure facilities such as charging piles and 5G base stations, residential statio

The proposed algorithm can promote the cost reduction of base station and the local consumption of renewable energy, and contribute to the construction of 5G network and new power system.

Cellular modem is essentially an IoT communication terminal that enables bidirectional data transparent transmission between charging piles and cloud platforms by integrating wireless communication ...

By exploring the overlap between base station distribution and electric vehicle charging infrastruc-ture, we

demonstrate the feasibility of efficiently charging EVs using base station batteries and renewable ...

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