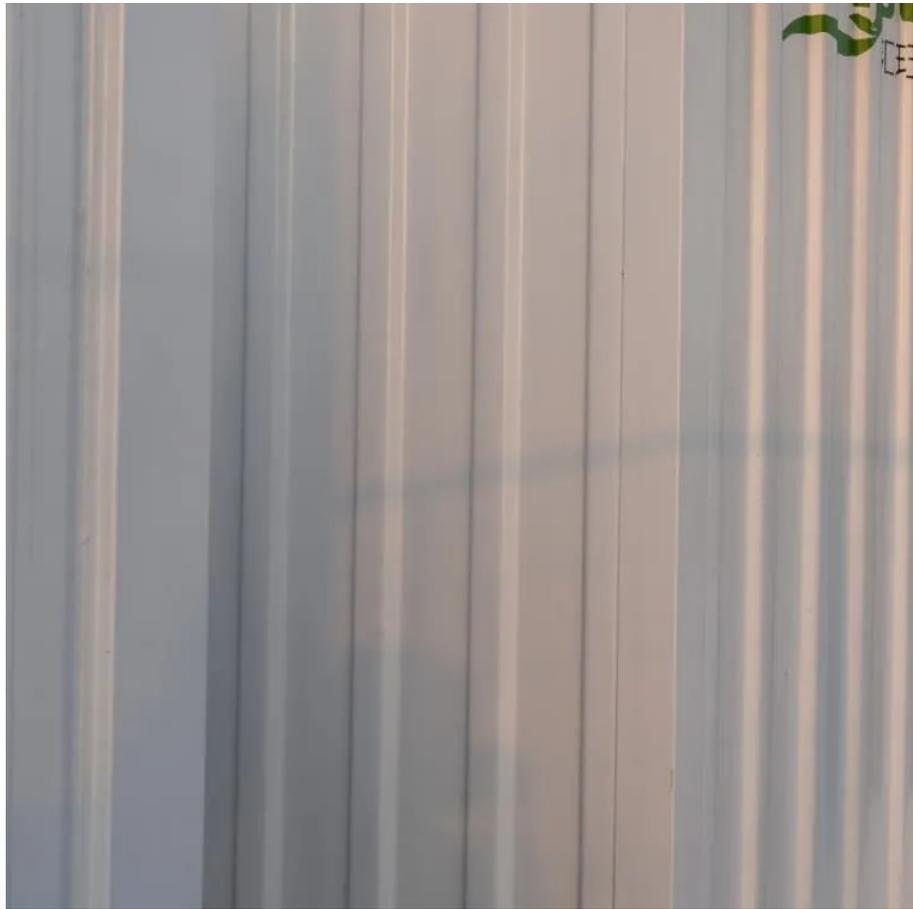


Charging base station new energy equipment





Overview

How many types of charging stations are there?

Minimized storage energy for seven scenarios across three types of charging stations. (a-c) are results for three charging stations near residential areas, commercial areas, and an airport, respectively. Three charge/discharge current rates are considered: 1C, 2C, and 3C. C1 and C2 are the two charging station power constraints.

What are the power constraints for airport EV charging stations?

C1 and C2 are the two charging station power constraints. Higher discharge/charge current rates can effectively bring down the requirement for storage energy. With a rise in the charge/discharge rate from 1C to 3C, the required energy of the storage is reduced by 61%–67% for the airport EV charging station.

Can EV charging stations support ultrafast charging?

For future charging stations without sufficient power capacity, we investigate two generalized solutions that can help manage the load increase: dynamic waiting for EV charging and use of energy storage. Lastly, we discuss the costs of different upgrade strategies for fast-charging stations to support ultrafast charging.

Why do EV charging stations need a higher power capacity?

This is because, despite high peak power demands, the daily average EV ultrafast charging power of the station is sufficiently low. Raising the total power capacity of the station to C2 (120 kW times the number of chargers) can greatly lower requirements for energy storage in the first few scenarios. Fig. 8.



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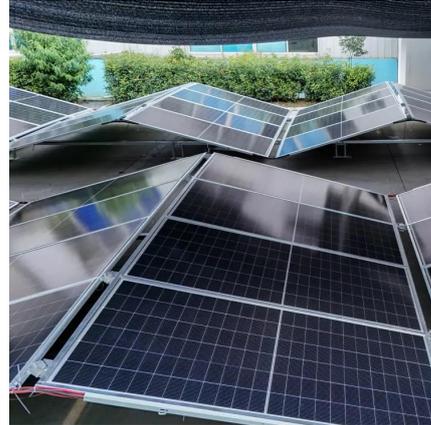
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