

Base station hydrogen fuel backup battery





Overview

Can hydrogen fuel cell backup power a data center?

Although early in development, large-scale hydrogen fuel cell backup power is gaining interest, particularly in the data center market. Cloud computing firm Equinix has begun evaluating hydrogen in its global network, piloting fuel cells at sites in Dublin and Singapore as part of a demonstration program to use hydrogen for emergency power.

Can hydrogen be used as a backup power?

Hydrogen is not solely used as backup power but also as primary power to complement the BESS (battery energy storage system). Hydrogen will be produced from excess renewable energy from solar and wind sites that already support the region.

Can hydrogen fuel cells replace diesel generators?

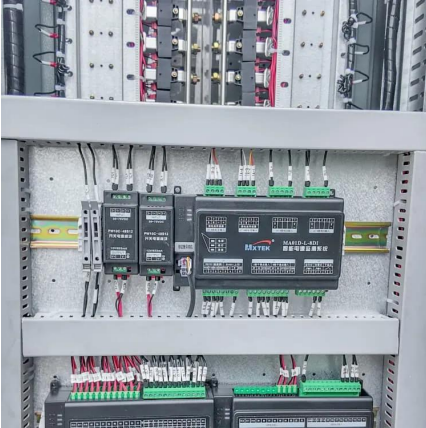
Some data center owners have already begun testing the use of hydrogen fuel cells in place of diesel generators for backup power. Today, the primary hurdle preventing wider adoption is not the technology itself, but rather procuring a reliable and low-cost supply of clean hydrogen for fuel.

What is a hydrogen fuel cell?

This is where hydrogen fits into the puzzle. Hydrogen fuel cells are utilized for emergency power for both small-scale and large-scale applications. Small-scale stationary power fuel cell sites, generally less than 100 kW, offer longer run times than batteries alone and require less frequent refueling than traditional generators.



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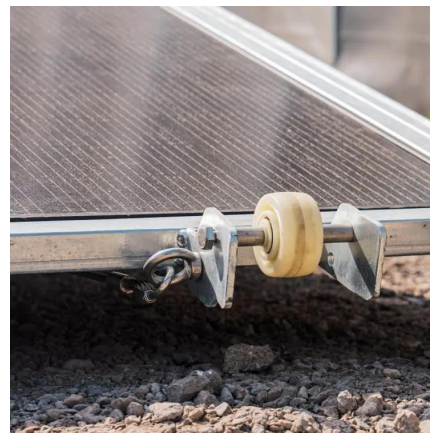
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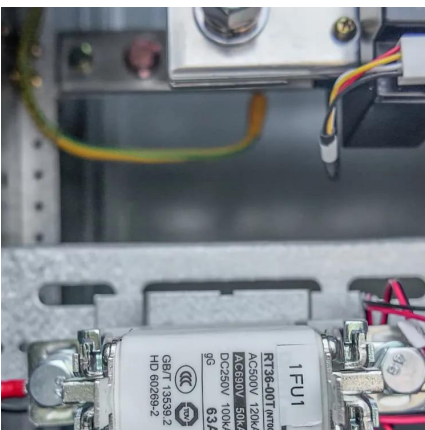
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