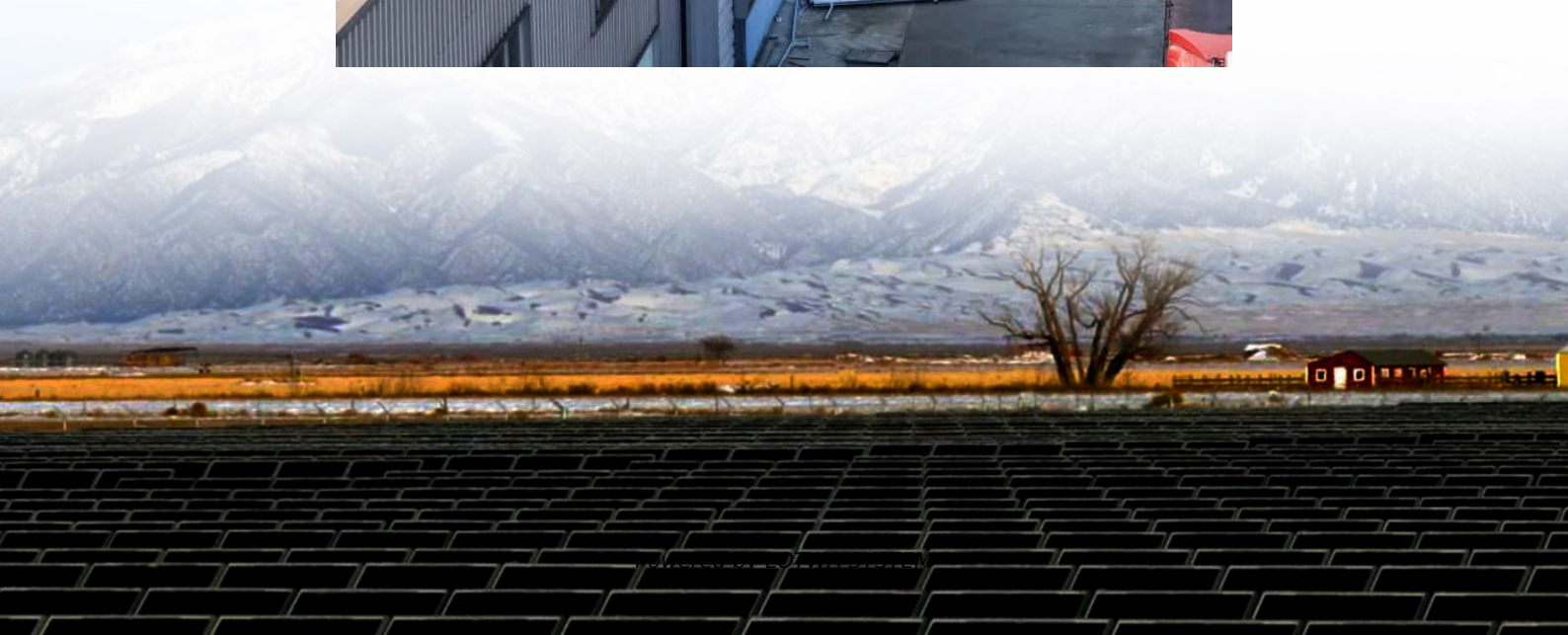


Solar energy on-site charging battery heating





Overview

What is a heat battery & how does it work?

The heat battery provides continuous high-pressure heat and steam to a Holmes Western oil facility, and is the first large-scale commercial project of its kind, the company said. The heat battery operates alongside gas-fired boilers at the facility.

How can on-site solar PV & energy storage improve sustainability?

To achieve sustainability goals while meeting the increasing electricity demands of electrification, organizations are pairing on-site solar PV generation with on-site energy storage. These systems, which are considered as “behind-the-meter” (BTM) systems, allow facilities to maximize the benefits of on-site renewable generation.

Can on-site storage be used alongside solar PV?

If a utility restricts the exports from a facility to the grid, the use of on-site storage alongside solar PV can provide a solution to avoid costly infrastructure upgrades, thus increasing the feasibility of larger on-site PV installations.

Can a rooftop PV system charge a passenger EV overnight?

Yes. A 5 kW rooftop PV array paired with a 10 kWh battery and a 7 kW AC charger can fully charge most passenger EVs overnight without importing grid power. How long does installation take?

Fixed stations need 6–10 weeks for permitting, civil works and commissioning; mobile containerised units can be operational within a fortnight.



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