

<div class="df_qntext">What is particle-based solar thermal energy storage (TES)?

Particle-based solar thermal energy storage (TES) is an attractive pathway towards operating at elevated temperatures while extending electricity production beyond diurnal periods of on-sun operation for concentrated solar power (CSP).

<div class="df_qntext">How can solar energy be used in buildings?

Solar energy can be effectively used in buildings for heat, cooling, and electricity supply. Plenty of solar thermal, PV and hybrid PV/T systems have been integrated with buildings for energy supply.

<div class="df_qntext">Can particle-based solar TES be integrated with CSP?

Numerous advances have been made in integrating particle-based solar TES with Concentrated Solar Power (CSP) to make them less expensive, more efficient, and capable of longer continuous operation. A principal enabler has been extensive research and technology development of subcomponents, including solar receivers, storage tanks, and heat exchangers.

<div class="df_qntext">Can photovoltaics meet global decarbonization goals?

To meet the global decarbonization goals of the economy, it is important to ensure a large-scale deployment of renewable energy, including photovoltaics (PV). The cumulative installed capacity of PV systems in the world at the end of 2020 was about 775 GWp (DC), and it is expected to exceed 1 TWp in 2022 to meet these goals.

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