

# Tehran integrated energy storage cabinet high temperature resistant cooperation

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Are thermal energy storage technologies a key enabler of industrial decarbonization?

In this context, thermal energy storage (TES) technologies have the potential to be a key enabler of increased renewables penetration and industrial decarbonization.

How can ERDF support innovation in thermal storage?

At European Member State level or at Regional level (ERDF), there are also many instruments that could support innovation in thermal storage, such as the long duration energy storage challenge launched by Sprin-D in 2023 .

What is sensible solid based thermal energy storage?

Sensible solid based thermal energy storage Sensible solid based TES are among the most mature technologies, and several companies propose similar solutions. Sensible TES technologies store heat by changing the temperature of the TES media.

Is latent heat-based TES a viable solution for residential applications?

Latent heat-based TES represents a commercial solution for residential applications (both for cooling and heating needs). However, their development at high temperatures is more limited. The main challenges are represented by the cost and availability of the phase change materials (PCM) and the scalability of the TES unit.

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