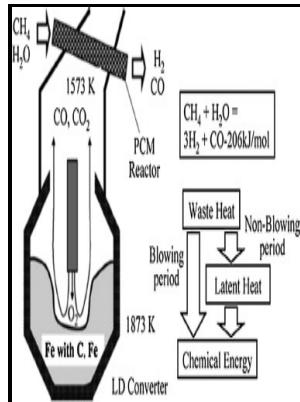


Thermal energy storage for the recovery of industrial wasteheat.

Department of Trade and Industry - Thermal energy storage (TES) for industrial waste heat (IWH) recovery: A review



Description: -

- Thermal energy storage for the recovery of industrial wasteheat.
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Thermal energy storage for waste heat recovery in the steelworks: The case study of the REslag project

The system uses gravel as the storage medium, so it offers a very low cost storage solution. These five industries--aluminum, cement, food processing, paper and pulp, and iron and steel--represent only a part albeit a significant part of the total potential for energy savings. Liquid Air Energy Storage LAES uses electricity to cool air until it liquefies, stores the liquid air in a tank, brings the liquid air back to a gaseous state by exposure to ambient air or with waste heat from an industrial process and uses that gas to turn a turbine and generate electricity.

Thermal energy storage

Although conventional systems based on sensible heat are used extensively, these systems involve technical limitations.

Thermal Energy Storage Technology

Thermal energy storage for industrial applications is a major thrust of DOE's Thermal Energy Storage Program.

Thermal Energy Storage Technology

Thermal store — The low boiling point of liquefied air means the round trip efficiency of the system can be improved with the introduction of above ambient heat. Results of study contracts awarded by the Department of Energy DOE and managed by the NASA Lewis Research Center have identified three especially significant industries where high temperatures TES appears attractive--paper and pulp, iron and steel, and cement.

Industrial waste heat recovery using an enhanced conductivity latent heat thermal energy storage

In spite of its high potential, industrial waste heat IWH is currently underutilized.

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