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temperature, place or power. TES systems are divided in three types: sensible heat, latent heat, and thermochemical. Clues for each TES system are presented in this chapter and requirements for each technology and application are given.

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goal in the building sector, thermal energy storage offers a number of benefits by reducing energy consumption and promoting the use of renewable energy sources. This manuscript reviews recent advances in the development of thermal energy storage materials for building applications oriented towards zero

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offset energy needs. Mechanical Storage
A other innovative technologies to
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Professor Richard Wirz at UCLA proposed
a novel high-temperature thermal

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storage solution (SulfurTES) by using elemental sulfur as storage medium. With low cost for the storage and containment materials, high thermal stability from room temperature to above 1000 ° C, and high heat transfer rate at liquid stage, SulfurTES shows great potentials to be a competitive technology for the next-generation

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enhancing the efficiency of thermal energy conversion and utilization by employing the polymeric phase change composite materials, which has attracted enormous interest in recent years owing to its merits of high energy density and strong stability of energy output.

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Thermal energy storage approaches
There are three main approaches for thermal energy storage: sensible heat storage (SHS), latent heat storage (LHS) and thermochemical energy storage (TCS). Sensible heat refers to heat that can be detected (“sensed”) by a

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temperature change in a linear relationship with temperature (as seen in Fig. 1).

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The Antora Energy team will develop key components for a thermal energy storage system (solid state thermal

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battery) that stores thermal energy in inexpensive carbon blocks. To charge the battery, power from the grid will heat the blocks to temperatures exceeding 2000°C (3632°F) via resistive heating.

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