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3.1 Park Type and Zero-Carbon Approach Analysis. According to factors such as industrial structure, functional type, and carbon emission scenario, industrial parks can be divided into five categories: production manufacturing parks, logistics storage parks, business office parks, characteristic function parks, and integrated urban industry parks [1].

The heat from solar energy can be stored by sensible energy storage materials (i.e., thermal oil) [87] and thermochemical energy storage materials (i.e., $\text{CO}_3\text{O}_4/\text{CoO}$) [88] for heating the inlet air of turbines during the discharging cycle of LAES, while the heat from solar energy was directly utilized for heating air in the work of [89].

1.2 Types of Thermal Energy Storage. The storage materials or systems are classified into three categories based on their heat absorbing and releasing behavior, which are- sensible heat storage (SHS), latent heat storage (LHS), and thermochemical storage (TC-TES) [1]. 1.2.1 Sensible Heat Storage Systems. In SHS, thermal energy is stored and released by ...

technologies), and material and waste heat (industrial symbiosis and other material recovery technologies). Industrial parks can adopt a combination of different strategies to foster the circular economy (figure ES.1):
• Promoting higher renewable energy generation and use, and achieving carbon neutrality

A multi-energy industrial park (MIP) represents the integration of industrial loads and other supportive infrastructure, which has the characteristics of centralized distribution and multi-energy coupling. ... while the energy/material storage can charge and discharge energy/material. Over a period of time, such as an hour, energy can be ...

TES systems are divided into two categories: low temperature energy storage (LTES) system and high temperature energy storage (HTES) system, based on the operating temperature of the energy storage material in relation to the ambient temperature [17, 23]. LTES is made up of two components: aquiferous low-temperature TES (ALTES) and cryogenic ...

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