

What are integrated energy service stations?

Integrated energy service stations (IESSs), which comprise substations, multi-energy conversion stations, data centres, communication base stations, and other functional units, constitute the emerging generation of energy and information control centres.

What is a generation-integrated energy storage system?

Generation-integrated energy storage (GIES) systems store energy before electricity is generated. Load-integrated energy storage (LIES) systems store energy (or some energy-based service) after electricity has been consumed (e.g., power-to-gas, with hydrogen stored prior to consumption for transport or another end-use).

What is a load-integrated energy storage system?

Load-integrated energy storage (LIES) systems store energy (or some energy-based service) after electricity has been consumed (e.g., power-to-gas, with hydrogen stored prior to consumption for transport or another end-use). GIES systems have received little attention to date but could have a very important role in the future.

What is integrated energy service station (IESS)?

The integrated energy service station (IESS) is the core of the EI, and functions as the centre of energy regulation and data integration. In addition to the substation function, it also performs the functions of information integration and sharing, multi-energy coordination, and deployment.

Can integrated energy storage be integrated?

An increasingly critical challenge for the utilities would be to maximize the integration of integrated energy storage in the near future. The key goal is to build an integration plan for integration of the distributed storage systems on a general and incredibly scalable basis using common platforms for software and hardware.

Where is CNPC's first integrated energy station located?

On December 22, CNPC's first pan-industry integrated energy station became operational in Huaqiao, Jiangsu Province.



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