

Most promising energy storage technology

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As the world moves towards a more renewable and decentralised energy system, energy storage is becoming increasingly important.

Energy storage technologies allow us to store energy when it's available and release it when it's needed, providing a range of benefits for the grid, businesses, and households.

One of the primary reasons efficient energy storage is crucial for the green transition is the need to manage variable energy supply. Renewable energy sources like wind and solar are intermittent and don't provide a consistent energy supply. Energy storage can help smooth out these fluctuations by storing excess energy when it's available and releasing it when needed.

As many renewable energy sources are becoming cheaper and cheaper, storing them and using them later can be very cost-efficient for society.

Energy storage can also provide backup power during emergencies and help reduce peak demand, which occurs when many people use electricity simultaneously.

By storing excess energy during off-peak hours and releasing it during peak hours, energy storage can help prevent blackouts and reduce the need for expensive infrastructure upgrades or reliance on fossil fuels.

Improving energy storage infrastructure and overcoming the issues posed by the intermittent renewable energy supply is essential to achieve decarbonisation targets and can drastically help eliminate our fossil fuel dependence.

Thermal energy storage (TES) is an innovative technology that offers a promising solution for storing and releasing heat energy. It allows us to leverage renewable energy sources such as wind and solar by utilising the energy they generate to heat a "thermal battery" that can store the heat for several hours or even days.

This stored energy can be used to generate electricity when needed, especially during periods when renewable energy sources are not readily available. This approach is a game-changer for renewable energy as it enables us to use it when it's most cost-effective, which typically occurs during sunny or windy periods.

As a result, the overall cost of electricity can be reduced, and the grid's stability can be improved.

One of the main benefits of TES is that it offers a simple approach to energy storage. Thermal batteries are typically constructed from abundant materials that are cheap to assemble and maintain and can operate for many years.

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