

In the past few decades, electricity production depended on fossil fuels due to their reliability and efficiency [1]. Fossil fuels have many effects on the environment and directly ...

To develop highly predictive models, Sun's research employs artificial intelligence to process large and complex datasets. Together with her students, she conducts tests at the Washington Clean Energy Testbeds, part ...

A clean energy transition to net-zero emissions requires a radical change in both the direction and scale of energy innovation. Drawing from the descriptions in the previous chapter, a national ...

Low-cost energy storage will usher in a new era in power systems, allowing for extensive use of renewable energy technology. This hybrid energy storage device uses a super-capacitor in ...

Developing novel EV chargers is crucial for accelerating Electric Vehicle (EV) adoption, mitigating range anxiety, and fostering technological advancements that enhance ...

Europe and China are leading the installation of new pumped storage capacity - fuelled by the motion of water. Batteries are now being built at grid-scale in countries including ...

6 ???&#0183; Due to the intermittency of renewable energy, integrating large quantities of renewable energy to the grid may lead to wind and light abandonment and negatively impact the ...

This article delivers a comprehensive overview of electric vehicle architectures, energy storage systems, and motor traction power. Subsequently, it emphasizes different charge equalization ...

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