

Minimally Innovative Inventions for the Power Grid



Overview

Several technologies are beginning to emerge as key solutions in powering the energy grid in the decades ahead, including carbon capture and storage (CCS), hydrogen, small modular reactor (SMR) nuclear technology, and fusion energy. How are grid technological innovations changing the way power substations work?

In this article, we discuss four grid technological innovations that are changing the way power substations work and giving grid operators the ability to better manage those substations and the network as a whole-paving. Advanced Metering Infrastructure (AMI) is revolutionizing the power industry, with estimates projecting that over half of American households will have a smart meter by 2025. This cutting-edge technology provides utility companies with real-time data on electricity consumption. It also provides. Carbon dioxide is transferred from this plant to Blue Planet System's Global Innovation Center, where it is turned into mineralized carbon dioxide, effectively recycling greenhouse gases into material that can be used to build city infrastructure. The energy landscape is. Argonne is leading efforts to modernize the electric grid, ensuring it meets future demands with advances in energy storage, AI and grid resilience. (Image by. It does this using state-of-the-art visual imaging, thermal imaging and acoustic imaging, as well as LiDAR (laser imaging, detection and ranging) for 3D scanning and site mapping.

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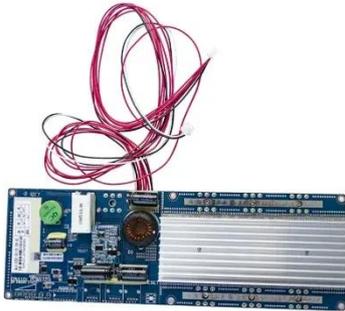
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