

3 ???&#0183; Open source as a procurement strategy. Open source is a low-friction way for customers to collaborate with their vendors, arriving more quickly at product requirements and ...

Technology drives grid transformation. All this will require wholesale transformation that builds intelligence into energy systems, turning utilities into companies that routinely use high-quality data to develop and deploy models - from load balancing to infrastructure planning, to predictive asset maintenance.

Digital transformation enabled by grid modernization technology in the transmission and distribution system will play a central role in the energy transition. Power grid infrastructure has been built and maintained over the past century to deliver reliable, safer, and affordable electricity across communities and industries.

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Grid modernization technologies like V2G and mobile substations offer promising solutions, enabling efficient management of charging loads, enhancing grid resilience, and facilitating the integration of renewable energy sources.

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Chief among the distribution grid needs that drove record utility capital expenditures in 2023 are adaptation, hardening, and resilience investments (figure 8), 55 which increasingly involve advanced digital technologies.

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investments of the "smart grid," focusing on physical measurement with smart metering and meter data management systems.

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In today's smart grids, IoT data is used to optimize CAPEX and investments in Intelligent Grid modernization, while Artificial Intelligence helps to derive value from existing grid data, and reduce OPEX. Data and AI in combination fuel new data-driven business models to enable transition from consumer to prosumer.

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