

# APDCL Smart Grid Pilot Project; A Review

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**Abstract**—Smart grid is one of the important technological innovations of the modern world. Smart Grid technology is named as one of the seven technologies besides Biotechnology, Nanotechnology, etc. that may help change the world. Driven by governments and industry, it is transforming how electricity is generated, stored, distributed, and consumed. It provides real-time monitoring of transformers and line voltage, data collection and remote control of system elements such as substations, intelligent devices, smart meters, power lines, capacitor banks, feeder switches, fault analyzers and other physical facilities. The various technology options available for introduction of Smart Grid in India were discussed in this paper. The paper also discussed about the various aspects of the Smartgrid pilot project being implemented in Assam Power Distribution Company Ltd(APDCL) like functionalities covered, technology adopted for communication ,specifications adopted for smart meter, challenges faced in the project , benefits from the project etc.