Definitions Relevant Chapter 045

RTO means regional transmission operator.

- Smart grid means an intelligent, autobalancing, self-monitoring power transmission and distribution grid that accepts any source of fuel and transforms it into a consumer's end use with minimal human intervention. It is a grid that has the ability to sense when a part of its system is overloaded and reroute power to reduce that overload and prevent a potential outage situation; a grid that enables real time communication between the consumer and utility to allow the customer's energy usage to be optimized based on environmental and/or price preferences. A smart grid is characterized by:

 (A) Increased use of digital information and controls technology to improve reliability,
 - (A) Increased use of digital information and controls technology to improve reliability, security, and efficiency of the electric grid.
 - (B) Dynamic optimization of grid operations and resources, with full cyber-security.
 - (C) Deployment and integration of distributed resources and generation, including renewable resources.
 - (D) Development and incorporation of demand response, demand-side resources, and energy-efficiency resources.
 - (E) Deployment of `smart' technologies (real-time, automated, interactive technologies that optimize the physical operation of appliances and consumer devices) for metering, communications concerning grid operations and status, and distribution automation.
 - (F) Integration of 'smart' appliances and consumer devices.
 - (G) Deployment and integration of advanced electricity storage and peak-shaving technologies, including plug-in electric and hybrid electric vehicles, and thermal-storage air conditioning.
 - (H) Provision to consumers of timely information and control options.
 - (I) Development of standards for communication and interoperability of appliances and equipment connected to the electric grid, including the infrastructure serving the grid.
 - (J) Identification and lowering of unreasonable or unnecessary barriers to adoption of smart grid technologies, practices, and services.