



Historical Development Plan of Smart Microgrid

When was the first microgrid built?

According to Pike Research, the first "modern industrial microgrid in the United States was a 64 MW facility constructed in 1955 at the Whiting Refinery in Indiana," but most people are not aware the concept is much older. The microgrid concept dates back to the beginning of our industry.

What is the future of smart microgrids?

With the increasing penetration of probabilistic RESs, using storage devices is an inevitable part of the smart microgrids. Appearance of advanced electricity storage technologies has greatly influenced the vision for the future of this technology.

How does microgrid fulfill the requirement of Smart Grid Initiative policy (GIP)?

Microgrid fulfills the requirement of Smart Grid Initiative Policy (GIP). Microgrid also enables active customer participation by giving accessibility of real time information and control to the customer [8,9].

Can communication technology improve power quality of smart microgrids?

Communication technology will play an important role in improving the power quality issues of smart microgrids. Previously, most of these devices were trying to become dependent on communication that will have some drawbacks such as uncertainty of data and latency.

What drives microgrid development?

The driving forces in microgrid development at the state and local levels include renewable energy requirements as reflected in renewable portfolio standards (RPS) in 29 states and Washington, DC; renewable portfolio goals in eight states; and increasing concerns regarding power system resilience due to growing extreme climate events [38,39,40].

When did OE start a microgrid program?

Figure 1. Select U.S. Federal microgrid assessment and demonstration projects (source: OE) OE's first major program, the Renewable and Distributed Systems Integration (RDSI) program, began in 2008. The nine projects initiated in 2008 are shown in green on Figure 1*.



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