

Summary of Microgrid Course Design Experience

What is a microgrid course?

The course details the fundamental concepts of microgrid and its components, types of microgrids, advantages of microgrid compared to the central conventional grid. Particularly the course describes general concepts and application, control strategies and principle of operation of DC microgrid.

Why is microgrid important in Smart Grid development?

Microgrid is an important and necessary component of smart grid development. It is a small-scale power system with distributed energy resources. To realize the distributed generation potential, adopting a system where the associated loads and generation are considered as a subsystem or a microgrid is essential.

Are microgrids a viable solution for integrating distributed energy resources?

1. Introduction Microgrids offer a viable solution for integrating Distributed Energy Resources (DERs), including in particular variable and unpredictable renewable energy sources, low-voltage and medium-voltage into distribution networks.

What are the studies run on microgrid?

The studies run on microgrid are classified in the two topics of feasibility and economic studies and control and optimization. The applications and types of microgrid are introduced first, and next, the objective of microgrid control is explained. Microgrid control is of the coordinated control and local control categories.

Does microgrid design depend on specific applications?

Microgrid topology and architecture Lessons drawn from the examination of the existing microgrid projects suggest that both the topology and structure of such systems strongly depend on their specific applications, thus making the generalization of the microgrid design more difficult.

What challenges must be addressed when developing a microgrid?

The design of an adequate protection scheme is another important challenge that must be tackled when developing a microgrid. In fact, differently from traditional distribution networks, fault currents in microgrids may drastically change depending upon the location of the fault.

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