



# Xionghuang Microgrid Technology

Why is micro-grid important in China?

Micro-grid is becoming an important aspect of future smart grid, which features control flexibility, improved reliability and better power quality. This paper conducts an overview of research and development of micro-grids in China. There are abundant renewable resources in China, which can benefit the development and application of micro-grids.

What is the development process of micro-grids in China?

Similar to other countries, development of micro-grids in China has gone through from the early stage of AC microgrids to the current varieties of AC, DC and hybrid AC/DC micro-grids based on their applications. Many technical problems have been solved and new problems are continuously appeared during the development process.

Are hierarchical control techniques used in AC microgrid?

A comprehensive analysis of the peer review of the conducted novel research and studies related recent hierarchical control techniques used in AC microgrid. The comprehensive and technical reviews on microgrid control techniques (into three layers: primary, secondary, and tertiary) are applied by considering various architectures.

Can DC microgrids be used in China?

Although research and applications of DC microgrids in China start later, a good progress has been achieved. In March 2014, China's first practical building integrated photovoltaic DC microgrid system ran successfully. The DC micro-grid locates at the campus of Xiang'an Energy Engineering, Xiamen University.

What is AC microgrid in China?

AC microgrids are most commonly used architecture in China. Several commercial AC micro-grids have been set up in several cities. Wenzhou Nanji of Zhejiang microgrid project was funded as a national "863" demonstration project by National Research Foundation of China. The total investment is about 0.15 billion yuan.

What is a microgrid?

The term "microgrid" refers to the concept of a small number of DERs connected to a single power subsystem. DERs include both renewable and /or conventional resources. The electric grid is no longer a one-way system from the 20th-century. A constellation of distributed energy technologies is paving the way for MGs ..

1 ??&#0183; DC Electric Spring (ES) is an emerging and feasible method to stabilize the fluctuating critical loads (CL) voltage caused by renewable energy. However, conventional single DC ...

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