

# Microgrid parallel connection

How many microgrids are connected in parallel?

In terms of selectivity, Fig. 7 (a) presents a simple example of parallel configuration, where there are three microgrids connected in parallel to an external grid. In addition, there are four interconnection links, numbered as 1 to 4, which are protected through protection devices, numbered as 1 and 2.

What is a microgrid power grid?

Microgrid refers to a small power grid composed of small distributed power sources that can operate independently. It can be operated separately or connected to an external power grid. Microgrids can achieve local power supply, reduce dependence on external power grids, and improve power supply reliability and flexibility.

Should a microgrid be connected to a main grid?

The question rising is if it is better in terms of security to be connected to the main grid or to other microgrids. This will depend on the type, number and strength of the connections. The stronger is the grid, the smaller the voltage changes that can occur, so it contributes to the voltage stability of the system.

Are microgrids interconnected through point to point connections?

In the same architecture is studied, and also focusing on the case where microgrids are interconnected between them through point to point connections. The point to point interconnections between microgrids is also studied in, where DC technology and power converters are used.

Are multi-parallel inverters a problem in a microgrid?

It shows that unlike the single grid-connected inverter system where the resonance frequency is mainly fixed by the inverter output LCL filter parameters, a microgrid with multi-parallel inverters presents a more challenging issue. In this condition, the interactions of inverters will excite complex resonances at various frequencies.

How to manage power electronics interconnecting microgrids in a decentralized way?

In the case the power electronics interconnecting microgrids are managed in a decentralized way, each one should be equipped with the so-called droop control-type governors. They regulate the active power exchanged with the network function of its electrical frequency, and the reactive power function of the voltage levels.

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