

# Advantages of AC DC Microgrid

Do Microgrids offer advantages compared to AC and DC technology?

This paper has presented a full description of microgrids. AC and DC technology in transmission lines has been described concluding that DC technology offers several advantages in comparison with AC technology, specially for long distances. The PCC in AC and DC microgrids has been also analysed.

What are the advantages of a coupled AC microgrid?

The main feature of this configuration is that the ac network is directly connected to the power grid by a transformer. The advantage is that the ac network of the microgrid is fixed by the utility grid in normal operating mode. In addition, the development of a coupled ac microgrid is less expensive than the decoupled one.

How to improve power quality in AC microgrids?

Some solutions have been proposed in order to improve power quality in AC microgrids . DC distribution networks ensure a higher power quality to the customers than in AC distribution network and facilitates more DGs connection .

Can AC loads be used in DC microgrids?

In addition, the change in classical loads to DC loads is also another aspect that will contribute to this change. Aspects related to the adaptation of AC loads to DC microgrids were focused on. It was verified that typical AC loads can be directly used in DC microgrids, avoiding adapters and changes in the equipment.

Can a DC network be used to manage power flow between AC microgrids?

In this approach the use of the dc network is limited to manage the power flow between both ac microgrids, but it could be employed to integrate dc-based devices in order to reduce the number of converters. This would improve the flexibility of the system as well as increasing its efficiency.

Are AC and DC microgrids more mature?

This study shows that the normative for AC microgrids is more mature than for DC microgrids, but there are several companies and organisms currently dealing with this subject. Economic analysis of AC and DC microgrids is also an important point to be considered.

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