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# Microgrids Optimal Power Flow through centralized and distributed algorithms

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## Abstract

In this paper, the microgrids technology is outlined. Special attention is paid to the hierarchical control architecture and to the tertiary level regulation, which may also be able to coordinate the output or input power injections from the different energy resources, based both on technical as well as on economic objectives. Both centralized and distributed approaches for minimum power losses management are here presented and summarized results are given.

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