



The Strategy of Micro-Network for Research on Network Connections

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Abstract

This paper emphasizes mainly on the grid-connected control strategy of the micro-grid during the grid-connected process. The typical configuration of the micro-grid is presented. The power flow in the micro-grid is analyzed based on the characteristic curve of frequency-power, and the method of the best connection point selection is given. In consideration of the harmonics, disturbances and time delay, the grid-connected control strategy is proposed. The micro-grid is simulated by the simulation tool Matlab/Simulink. The results indicate that the selection of the best connection point has a great effect on the power quality in the micro-grid.

Keywords: Micro-network; characteristic curve; frequency-power; control strategy