

ANALYSIS OF THE CONNECTION OF A MICROTURBINE TO A LOW VOLTAGE GRID

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ABSTRACT

Expected advantages to customers, utilities and environment, from the connection of a microturbine to a low voltage grid, are presented in this article. The main components and type of loads, which integrate the designed microgrid, are characterized. Some performance results to achieve on the system are also presented. Furthermore, some technical challenges are emphasised regarding the microgrid implementation barriers in the Portuguese study case.