

IMPROVEMENT OF MICROTURBINE GENERATOR OUTPUT VOLTAGE USING MATRIX CONVERTER

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ABSTRACT

In distributed generation (DG) Microturbine-generator is used for different applications. Due to its high speed and low inertia, frequency converter is used to deliver power at 50/60Hz. In this paper, implementation of Matrix Converter is interfaced to microturbine-generator. The simulation results are shown by using matrix converter, to enhance output voltage.

KEYWORDS: Matrix Converter (MC), Harmonics, Microturbine-Generator (MTG), Bi-Directional Switch, Converter