

# Microturbines

by

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(received on March 28, 2003, accepted on May 28, 2003)

## Abstract

Recently, much attention has been paid on a “microturbine”. Distributed resources offer a non-grid-connected remote power and have been integrated into a grid system with large generating stations. There are many reasons for this change, such as peak shaving, power quality and reliability, grid stability, combined heat and power (cogeneration), and energy management. A microturbine is one of the most attractive candidates for these distributed energy systems. This paper describes the history, current status and future of microturbines and their related technologies. The efficiency of a microturbine is highly desired to be increased to more than 40% in the near future.

**Keywords:** Microturbine, Gas turbine, Distributed energy system, Cogeneration, Ceramic gas turbine, Thermal efficiency

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