

# The Market for Microturbine Electrical Power Generation 2019-2028



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# Analysis 2

## The Market for Microturbine Electrical Power Generation 2019-2028

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# The Market for Microturbine Electrical Power Generation

## Executive Summary

In the period 2018 to 2027, Forecast International is projecting a worldwide unit production of 7,054 microturbine electrical power generation units, a significant increase over last year's projection of 3,821 units. Value of production, however, is projected to be \$631 million, a slight decrease from the \$654 million forecast in last year's edition. Average unit price over the period is projected to be \$92,713 in 2018 dollars, a 45.8 percent decrease from last year's forecast of \$171,159.

The increase in unit production and the decrease in average unit price are attributable to the new, very small microturbines that are currently coming to market. Although they do not add much to the 2018-2027 overall value estimates, their production numbers are indeed significant.

Microturbines have generally grown in power output over the years, and that generally still holds true. When microturbines started to become a significant market factor in 1999, the average unit on sale had a power output of about 35 kW. Ten years later, this had increased to approximately 100 kW and is now approaching 150 kW. There is no indication that the trend of power increases is slowing.

There is also a trend developing in Europe of utilizing turbine technology in very small applications. There

was a time when microturbines were too powerful for a private residence, but times are slowly changing. MTT's EnerTwin produces 3.2 kW of electricity and 15.6 kW of thermal power, which puts the machine in a prime position to be utilized in smaller buildings. These new turbines change the forecast significantly. From last year's prediction to this current analysis, unit production increases significantly, average unit value decreases significantly, and the total value for the forecast period remains nearly the same.

These new small machines (e.g., MTT's and Bladon Jets' products) might change the landscape somewhat, but previous trends still hold true: microturbines have become more powerful, more fuel options are becoming available, and Capstone is still the market leader in terms of value.

Today, microturbines are primarily used for remote power applications in the oil and gas (O&G) industry and for cooling, heating, and power (CHP) and combined CHP (CCHP) applications in the commercial, industrial, and residential high-rise markets. An increasing energy demand-supply gap, a rise in the adoption of low-emission power generation sources, and the need to generate power cost-efficiently are some of the factors that will hold microturbines' place in the market globally.

\* \* \*

## PROGRAMS

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The following reports are included in this section: (**Note:** a single report may cover several programs.)

Ansaldo Microturbines  
Bladon Jets MTG12  
Capstone Microturbines  
FlexEnergy Microturbines  
MTT EnerTwin

SAMPLE

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