

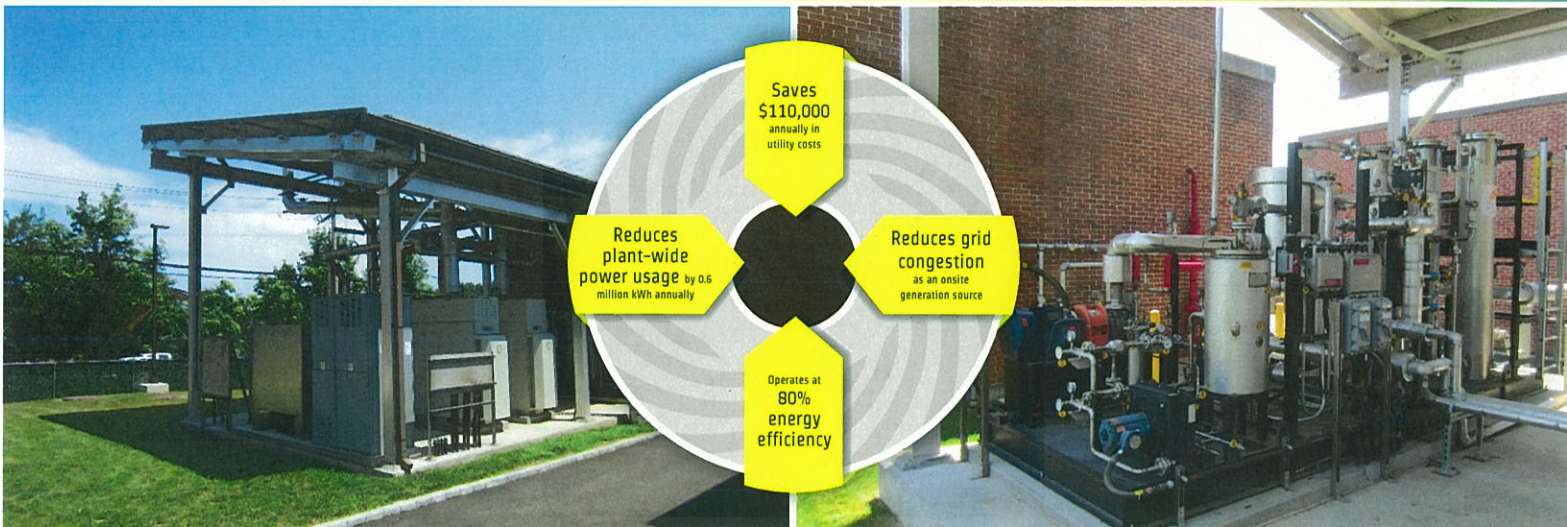
# CONVERTING POWER TO PROFIT

## Microturbine Cogeneration Facility, Great Neck, New York

It was an ambitious goal. Develop a sustainable, efficient, and economical way to power the Great Neck Water Pollution Control District's 5.3 million-gallons-per-day wastewater treatment plant. The project team delivered with an efficient solution rarely seen in the wastewater industry.

The new microturbine cogeneration facility (MCF) represents one of the most efficient heat and power generating systems available. Two 65 kilowatt microturbines integrate with exhaust gas and hot-water heat exchangers to recover heat that would normally be lost in the power generation process. This waste heat is used to heat the wastewater plant's sludge and to power plant buildings, delivering efficient, clean, and reliable energy.

Not only has the solution slashed the district's utility costs, it introduces one of only a few U.S. wastewater treatment plants in the U.S. powered by a MCF, setting a model for the future.



To ensure consistent and reliable power, a unique natural gas mixing system enables operators to draw from the gas utility if needed

### KEY FEATURES



Microturbines are equipped with remote monitoring capabilities, enabling plant workers to troubleshoot problems quickly, saving time and resources



The aluminum canopy roof is outfitted with 13 kilowatt solar panels to offer an additional natural power supply

Microturbine Cogeneration Facility,  
Great Neck, New York



New York

**Gannett Fleming**  
Engineers and Architects, P.C.  
Woodbury, New York