

Sungawa Clean Plaza Kurukuru Hokkaido, Japan

A waste-processing center in Hokkaido, Japan, creates its own clean-and-green electricity from decomposed kitchen waste. The waste produces methane gas that fuels four Capstone C30 microturbines onsite. The 120kW of electricity the low-emission microturbines produce runs all equipment at the center, while the microturbines' clean exhaust heat keeps the plant's bioreactor tank temperature at a steady 55°C (131°F) – the temperature needed to decompose 10 tons of garbage brought to the plant each day. The exhaust heat also is used to melt snow on city streets in the winter and to heat nearby buildings. The low-maintenance Capstone microturbines have run more than 25,000 hours since they were installed in 2003. ■



Methane gas fuels four C30 microturbines at a waste-processing center in Japan.