

# Outside the digester is best for AD operator

Four Landia GasMix systems are close to completing their first year of uninterrupted operation at Eco Sustainable Solutions' 1.6MW AD facility in Piddlehinton, near Dorchester, Dorset. The mixers serve two 2500m<sup>3</sup> digesters that primarily contain household food waste.

Utilising 18.5kW chopper pumps to generate a total of 700m<sup>3</sup> gas per hour, GasMix ensures that total mixing is achieved via specially angled recirculation nozzles. Compared to many energy-burning systems that have to run flat-out, 24/7, Landia's GasMix at Piddlehinton only needs to operate for approximately 10 to 20 minutes per

hour. Food waste from around 60,000 Dorset households, plus liquid waste from milk and cheese production, is kept at 410°C inside the digesters, with a retention time of 40 days.

Eco choose the GasMix system because all the pumps and pipe-work parts are on the outside of the digesters, said Stephen Harman, Operations Manager, "so importantly, [they] can be maintained without interruption to our 24/7 process". The 2.5 acre site supplies 60% of its power to Mole Valley Farmers' neighbouring Dorchester Feed Mill.

