



SOLUTIONS

- Overview
- Cigar® - Biogas Reactors
- Anaerobic Digestion
- Aerobic Treatment
- Odour Control
- Waste Products
- Cap™ Retrofit

• Research & Development

- Lab Services
- Design Services
- Construction Services
- Operational Services
- Future Developments

We devote substantial resources to developing improved components, enhanced processes, increased efficiency and cost reduction strategies. The underlying objectives are to optimise wastewater treatment and waste to energy facilities and to deliver exceptional value. Currently focus is on anaerobic digestion, aerobic treatment, chemical and thermal optimisation.

Areas that are often overlooked include instrumentation, control & automation.

Wastewater treatment must continue around the clock, every day, every year. Treatment systems are exposed to harsh operating conditions. This creates a demanding challenge to the owner of a plant as process performance must continue to achieve treatment levels to satisfy resource consent discharge standards.

A suitably designed automation and control system is therefore not only crucial for achieving treatment standards in the treated effluent, but also in keeping operating costs to a minimum. Process control hinges on proper functioning of plant equipment. Treatment plants must operate in highly corrosive environments and unwanted materials entering the waste stream can upset the operation of mechanical equipment. In addition, many plants are often not attended by full-time operating personnel. Despite these restrictions plants are expected to deliver treated effluent which, under all circumstances, must comply with stringent discharge requirements.

Waste Solutions has designed, built and commissioned many automation and control systems and knows the business of running a facility inside out. Waste Solutions knows how important it is that:

- Control systems are designed by specialists
- SCADA systems access plant information logically
- Fault indications are targeted, reliable and only generated when it matters

We monitor plants across the world remotely and are able to mitigate operational risks while managing to achieve tangible reductions in capital and operating costs.