

# Power for the Coombabah Wastewater Treatment Plant



The Coombabah Wastewater Treatment Plant, operated by Gold Coast Water, underwent a transformative upgrade with the installation of a 550 kW 2G avus500plus CHP unit and a comprehensive biogas treatment system. This initiative was designed to optimise the use of existing digesters for power generation and efficiency, leading to the production of about 4000 MWh of renewable electricity each year. The implementation of these technologies not only reduced the plant's energy consumption and operational costs but also supported the City of Gold Coast's environmental objectives.

The cogeneration unit produces electricity to offset the facility's electrical consumption, while the heat generated ensures optimal functioning of the digester system. This project, executed with Pensar as the principal contractor, demonstrates a successful integration of sustainable energy solutions in wastewater management, setting a benchmark for similar facilities.



**Gold Coast Water**

avus 500plus  
Biogas  
550 kW electrical  
569 kW thermal

