

East Gippsland Water invests in CHP solution for improved energy efficiency

THANKS TO THE AGENITOR 404A 500 MWH OF RENEWABLE ENERGY IS GENERATED ANNUALLY



The Australian water supplier in Bairnsdale offsets 485 tons of CO₂ per year with the CHP plant.

In order to optimize the energy supply of the Bairnsdale wastewater treatment plant in Australia, East Gippsland Water replaced the existing generator and heat pumps with a highly efficient cogeneration solution

(80 kW). The new plant not only covers the entire electricity requirements of the sewage treatment plant, but also supplies all the heat required for the digesters – and additionally feeds excess energy into the power grid.

East Gippsland Water relies on CHP technology to reduce emissions

In order to achieve its ambitious sustainability goals – to switch completely to renewable energies by 2025 and to achieve net-zero emissions by 2050 – the Australian water supplier East Gippsland Water decided for a highly efficient CHP solution for the Bairnsdale wastewater treatment plant. This project was carried out in collaboration with our partner Evo Energy Technologies.

As part of the project, an agenitor 404a CHP was installed. It uses the biogas obtained in the plant from the anaerobic fermentation process for the simultaneous generation of electricity and heat. The system not only covers the electricity needs of the plant, but also provides all of the heat energy for the fermenters. Excess energy is fed into the power grid.

Climate protection with a system - locally generated, sustainably designed

With a forecast annual output of around 500 MWh, the CHP generates enough electricity to supply around 98 average

Australian households. At the same time, it will save around 485 tons of CO₂ emissions annually. This project is a key component of East Gippsland Water's comprehensive climate action plan. It contributes significantly to the company's targeted 44% emissions reduction by 2025 and supports its long-term environmental goals.



East Gippsland Water

<https://www.egwater.vic.gov.au>

agenitor 404a

Biogas

80 kW electric

104 kW thermal

