

CASE STUDY WASTEWATER TREATMENT TEYS AUSTRALIA



The installation of advanced wastewater treatment facilities with biogas capture at Teys' Beenleigh and Rockhampton facilities will see savings in energy, water and carbon emissions for both sites. The upgrade follows two similar successful projects in NSW. Teys is confident the projects will produce a result that is well above and beyond compliance.

BEENLEIGH AND ROCKHAMPTON WASTEWATER TREATMENT PROJECTS

Teys Australia is a beef processing and cattle feeding company operated by the Teys family under a 50/50 joint venture between the Teys family and Cargill. The company has six beef processing facilities in the eastern Australian states and supplies high quality beef products to the international and local markets.

Teys Australia's Beenleigh and Rockhampton facilities are in the final stages of constructing state-of-the-art wastewater treatment systems that will significantly reduce greenhouse gas (GHG) emissions. These systems will replace non-renewable energy sources with renewable energy generated on site, resulting in a major reduction in the reliance on fossil fuels. This initiative will also provide a number of additional improved environmental outcomes that will advance sustainability in Queensland.

BIOGAS CAPTURE

The Covered Anaerobic Lagoons (CALs) will collect all liquid waste from the processing plant, treat the wastewater and capture methane-rich biogas. The biogas will be used as a substitute for natural gas and coal in boilers or generators, resulting in a major reduction in the reliance on fossil fuels and a move towards renewable energy.

PROJECT SUCCESS

The projects are the result of years of planning, preparation and research, including extensive consultation with regulators, staff, suppliers, customers and the community to achieve a result that will be above and beyond the capability of the original waste treatment system.

The projects were funded by Teys Australia in partnership with the Clean Technology Food & Foundries Investment Program and Meat and Livestock Australia for research and feasibility analysis.

TEYS AUSTRALIA

Teys Australia is committed to actively participating in the transition to the low carbon economy and contributing to the objectives set under the Red Meat Processing Industry's Climate Change Strategy. Teys Australia aims to be positioned within the meat processing industry as leaders and innovators in waste and environmental management and clean energy technology.

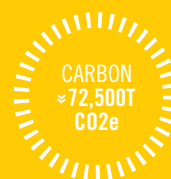
OBJECTIVE

The objective of the projects is to upgrade the existing wastewater treatment plants and reduce future risk with respect to carbon emissions, energy supply and prices, and community relationships.

ACTION PLAN HIGHLIGHTS

The treatment plant upgrades are expected to:

- reduce carbon emissions by 72,500 tonnes CO₂e combined (39,400 tonnes for Rockhampton and 33,100 tonnes for Beenleigh). This is the equivalent of removing 24,000 cars annually from the road.
- save 75,725 GJ natural gas for Beenleigh and 85,815 GJ black coal for Rockhampton, which is equivalent to the annual natural gas usage of 900 Queensland homes.



BIOLOGICAL NUTRIENT REMOVAL (BNR)

Construction is being finalised on advanced BNR treatment systems to significantly improve wastewater quality, allowing a greater number of potential reuse opportunities. This will reduce reliance on potable water. The BNR systems will treat water to a very high standard, and will also create a nutrient-rich product that can be used to improve soil fertility, reducing reliance on non-renewable agricultural soil additives.

FIND OUT MORE

Teys is keen to share its experiences with other companies or organisations interested in learning from these projects and the way they were undertaken.



Teys Australia

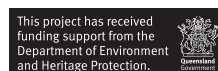
07 3198 9000

Brodie Smith
Corporate Social Responsibility Administrator
bsmith@teysaust.com.au

Charlie Hollingworth
Group Manager, Corporate Affairs & Environment
charlesh@teysaust.com.au

THE ECOBIZ TEAM IS ALWAYS AVAILABLE TO HELP YOU.

PHONE 1300 731 988
EMAIL ecobiz@cciq.com.au
WEBSITE www.cciqecobiz.com.au



Chamber of Commerce & Industry Queensland
375 Wickham Tce, Spring Hill QLD 4000
www.cciq.com.au