

INNOVATION COMPETITION

Reducing Scope 1 greenhouse gas emissions

Passionate about fighting climate change?

We invite you to join our contest for innovative ways to reduce or eliminate Scope 1 greenhouse gas emissions (methane and nitrous oxide) from our wastewater treatment plants.

Melbourne Water in Victoria, Australia makes a vital contribution to the city's lifestyle by underpinning human health, enhancing community well-being, supporting economic growth and balancing the natural and man-made environment. The organisation is responsible for the supply of affordable, high-quality water, reliable sewerage, healthy waterways, integrated drainage and flood management services and cooler greener spaces, helping make greater Melbourne a fantastic place to live.

This competition gives you the opportunity to submit your ideas to Melbourne Water to reduce emissions and share in a prize pool totaling \$200,000 (AUD) if your idea is selected.

Types of applications we're looking for

Ideas are welcome in:

- A. **Emissions measurement and modelling**, for example:
 - Atmospheric measurement of emissions from the treatment plant
 - Measurement of dissolved methane and nitrous oxide in wastewater
 - Process computer modelling and identifying key influences on emissions
- B. **Optimisation of existing wastewater treatment processes**, for example:
 - Process covers, emission capture and treatment
 - Real-time control system for process optimisation to minimise emissions
 - Alternative process configurations
 - Side-stream nutrient removal that result in emission reduction
- C. **Wastewater treatment processes of the future**, for example:
 - Decoupling nitrogen removal from aerobic processes
 - Algae processes
 - Decentralised treatment
 - Anaerobic processes

Evaluation criteria

We'll evaluate submissions on:

- Being conceptually and technically sound
- The solution's effectiveness
- The relevance and ease of integration into the existing wastewater treatment plants
- Any added value
- Financial viability
- Track record and key personnel experience



How to join the competition

Register your early interest in participating in the contest and be advised of key dates by emailing: innovationcontest@melbournewater.com.au