

GREENHOUSE GAS ANALYSER



UNIVERSITY
OF WOLLONGONG
AUSTRALIA

Measuring Greenhouse Gases Around the Globe.

Identification of Need

A University of Wollongong invention will help governments around the world measure greenhouse gases following the University's decision to commercialise its greenhouse gas analyser - the Spectronus - in partnership with Australian environmental monitoring solutions manufacturer, Ecotech.

The partnership comes at a critical time in Australia with the carbon price arrangements coming into effect on 1 July 2012. Worldwide, there is an increasing need for governments to accurately measure greenhouse gases in their environments.

To meet growing demand, Ecotech will manufacture the analyser in Australia and distribute it via its worldwide network under a licensing agreement with the University of Wollongong.

First developed in 2002 by the University of Wollongong's School of Chemistry, the greenhouse gas analyser is already in use with Australian governments and organisations including:

- Queensland Department of Agriculture, Forestry and Fisheries
- Victoria's Department of Sustainability and Environment
- Australian Nuclear Science & Technology Organisation (ANSTO).

Internationally, the analyser is currently used by government organisations and universities in Germany, France, China, South Korea, New Zealand United Kingdom and Switzerland.



The Solution

The Spectronus leads the market in its ability to deliver a high-precision, real-time analysis of the major greenhouse gases including carbon dioxide, methane, nitrous oxide, carbon monoxide and water vapour. The analyser's hardware is complemented by powerful operating software which provides a flexible, fully-automated system that can be remotely controlled.

Professor David Griffith, head of the University of Wollongong Research Team, said:

"Policy decisions based on climate change research demand highly accurate and repeatable data for all greenhouse gases, not just CO₂. In a world first, the Spectronus simultaneously measures important greenhouse gases, making it highly sought after by governments and their agencies. We are excited by the opportunity to meet global demand for this Australian invention through our partnership with Ecotech."

"In a world first, the Spectronus simultaneously measures important greenhouse gases, making it highly sought after by governments and their agencies."

*Professor David Griffith,
The University of Wollongong Research Team*

UOW CASE STUDY

To learn more about this and other opportunities to engage with University of Wollongong and our researchers contact the Innovation and Commercial Research Unit on 02 4221 5086 or icr-enquiry@uow.edu.au