AUSTRALIA

Australia-Singapore
Green Economy Agreement

Go-Green Co-Innovation Program

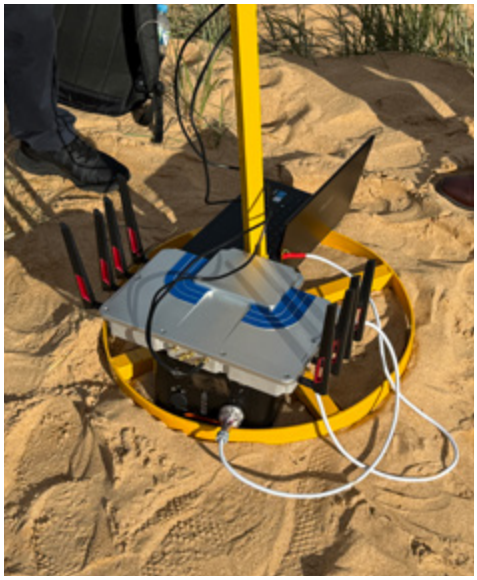
In a joint push toward supporting their respective transitions to net zero, the Prime Ministers of Australia and Singapore launched in June 2023 the *Go-Green Co-Innovation Program (GGCIP)*, a flagship initiative under the Green Economy Agreement. This grant scheme is designed to support bilateral partnerships between companies working to co-develop technologies, products, and services that drive trade and commerce in green sectors. Projects funded under the program's first round are already beginning to deliver promising results as showcased below:

Revolutionising Energy Generation in Greenhouse Agriculture

This project has pioneered groundbreaking hybrid solar panel technology designed to supercharge energy generation and efficiency in greenhouse agriculture, all while boosting plant growth without compromising crop yield. A powerful collaboration between Australian luminescent film innovators and Singapore's engineering experts led to the creation of a modular, hybrid technology that enhances plant growth and optimises greenhouse energy through a combination of cooling and power generation. All key milestones in the film's design, fabrication, and initial validation have been met, and have demonstrated exceptional infrared reflection properties. Following successful lab trials, the project has progressed to field trials. Commercialising this game-changing technology to promote green growth will be the project's final step.

Australian Company: **LLEAF Pty Ltd**
Singapore Company: **Mapconn Singapore Pte Ltd**

Pushing Boundaries with Long-Range WiFi for Mining



This project is driving the next generation of underground connectivity with the development of a cutting-edge long-range WiFi system—engineered specifically for the demanding environments of resource-sector mines, where traditional WiFi is costly and power-hungry. By combining Australia's strengths in access point motherboard and WiFi module development with Singapore's expertise in chipset integration and technical datasheet design, the team has built a powerful modular solution. Successful underground trials are already underway, with plans to deploy the technology at emerging critical mineral sites across Australia and beyond—supporting smarter operations and accelerating decarbonisation in the mining industry by using energy efficient long-range WiFi systems. Work is ongoing to ensure broad chipset compatibility and pave the way for commercial rollout.

Australian Company: **Roobuck Pty Ltd**
Singapore Company: **DY Technology Pte Ltd**

GEA

Driving a Carbon-Efficient and Sustainable Supply Chain

This project seeks to integrate cutting-edge technologies, including AI-driven solutions, to enhance the technical capabilities of businesses pursuing more carbon-efficient and sustainable supply chain management. Australian data and technology leaders collaborated with their Singaporean counterparts to harness AI-powered decision-making tools, developing models that automatically assess sustainability profiles and generate actionable recommendations. This collaboration also led to the creation of an automated risk profiling system, which evaluates environmental, financial, and compliance factors of supply chain participants. Both teams are now executing marketing and outreach strategies to commercialize the technology, with plans to tailor it to meet specific market and business needs.

Australian Company: **Givvable Pty Ltd**
Singapore Company: **Stemly Pte Ltd**

Advancing Low-Carbon Feedstocks for Sustainable Aviation Fuel

This collaborative project between Australia and Singapore aims to assess the feasibility of sourcing and producing low-carbon intensity feedstocks from waste oils and non-edible crops in Australia for Sustainable Aviation Fuel (SAF) production. The long-term goal is to accelerate SAF development and contribute to the decarbonization of the aviation sector in the region. Singapore brings to this project its expertise in waste-based feedstock collection, while Australia focuses on advancing domestic capabilities in the processing and refining of non-edible crops. Both countries are investing in this partnership, which is driving the establishment of renewable feedstock production, processing, and refining infrastructure in Australia. The study is nearing completion, with key deliverables expected by December 2025.

Australian Company: J**et Zero Australia Pty Ltd**
Singapore Company: **Apeiron Bioenergy Pte Ltd**

Leveraging Integrated Technologies to Meet Climate Disclosure Requirements

This project brings together world class Australian sustainability data capabilities and Singapore's fintech leadership to enhance businesses' ability to meet climate-related public disclosure obligations while strengthening sustainable supply chain management. The collaboration has focused on sourcing and incorporating relevant data into an application programming interface (API), enabling seamless data exchange and synchronization across various commercial data and software systems. This integration supports automated workflows, ensuring smooth, secure, and efficient data transfer. In practical and application terms, this means businesses, such as banks and retailers, can easily and cheaply provide customers, investors and government information about the carbon footprint of products and services.

Australian Company: **FootprintLab Pty Ltd**
Singapore Company: **ESGpedia Pte Ltd**