Media Release

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LETA INVESTMENT PUTS ADVANCED TECHNOLOGY ON FAST TRACK TO INDUSTRY DEPLOYMENT

Low Emission Technology Australia (LETA) is backing a breakthrough carbon capture pilot in the United States that could help secure the future of Australia's steel and cement industries while cutting global emissions.

In partnership with the US Department of Energy and industry leaders, LETA is investing in GTI Energy's advanced ROTA-CAP™ technology, an innovation designed to make carbon capture systems smaller, cheaper, and more easily scalable for industrial settings. The project team includes U. S. Steel, Amrize (formerly Holcim US), and Enbridge.

The ROTA-CAP™ carbon capture technology will be tested at pilot scale at U. S. Steel's Edgar Thomson facility in Braddock, Pennsylvania, USA. The project aims to assess the technology's readiness for commercial scale-up and enable wider deployment across the steel, cement, and other hard-to-abate industries.

LETA's participation brings valuable industrial expertise and international perspective to the project, helping advance global efforts to reduce industrial CO_2 emissions.

LETA CEO Mark McCallum is confident that this project will make a direct contribution to the future of Australian manufacturing.

"Projects like ROTA-CAP could provide a cost-effective solution crucial to securing a future for Australia's hard-to-abate industries like steel and cement manufacturing," said Mr McCallum. "Globally these two industries combine to account for around 15% of the world's greenhouse gas emissions. The work we are undertaking with GTI Energy directly aligns with the Government's focus to reduce emissions while building Australia's workforce."

With mechanical design in progress, the project is on track to begin manufacturing components in coming months. LETA's support helps ensure the pilot will generate meaningful insights for how the system performs under real industrial conditions which can then be scaled for deployment in places like Australia, the US, and Canada.

"Carbon capture is essential to decarbonizing steel and cement production, but it must be practical, affordable, and ready for scale. With ROTA-CAP™, we're not just improving performance, we're rethinking the system," said Don Stevenson, GTI Energy's Vice President of Carbon Management & Conversion. "This project, with LETA's support, is a key step toward making those shifts real."

ROTA-CAP™ has undergone extensive proof-of-concept and performance validation testing at the National Carbon Capture Center in the US. Testing in real industrial environments will further advance the technology toward commercial readiness.

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ABOUT LOW EMISSION TECHNOLOGY AUSTRALIA

Low Emission Technology Australia (LETA) is a not-for-profit investment fund that accelerates the development and large-scale deployment of technology solutions to reduce and remove greenhouse gas emissions from critical industries like steel, cement and power generation.

LETA's investment in technology unlocks a faster, cheaper pathway to net zero for hard-to-abate industries that are critical to the economy, provide thousands of Australian jobs and support households every day.

Since 2006, LETA members have contributed more than $400m to low emissions projects and unlocked a total investment of $1.1b. LETA members recognise the crucial role of low emissions technologies in enabling a net-zero future for their industries, their customers, their workforces and Australian communities.

ABOUT GTI ENERGY

GTI Energy is a technology development and training organization. Our trusted team works to scale impactful solutions that shape energy transitions by leveraging gases, liquids, infrastructure, and efficiency. We embrace systems thinking, innovation, and collaboration to develop, scale, and deploy the technologies needed for low-emission, low-cost, and resilient energy systems.