



UNIVERSITY OF
NEWCASTLE

TRAILBLAZER FOR RECYCLING AND CLEAN ENERGY (TRaCE)

Fast-tracking Net Zero

The Trailblazer for Recycling and Clean Energy (TRaCE) program is moving innovative technologies out of the lab and into Australian manufacturing. Delivered by UNSW and the University of Newcastle and supported by the Australian Government, the program aims to partner with and support industry, research and education partners to fast-track the energy transition.

PARTNERSHIP CAPABILITIES

- **De-risk your R&D:** Collaborate with world-class researchers and access cutting-edge facilities, specialist equipment, and co-funding to test, validate, and accelerate your solution.
- **Power Tomorrow's Talent:** Shape the future workforce through education and training programs co-designed with industry, building the skills Australia needs for a clean energy economy.
- **Access an Ecosystem of Expertise:** Leverage the combined strengths of the University of Newcastle and UNSW to support your growth at every stage.

PROVEN IMPACT

- **Technology for Tomorrow:** Over \$120 million invested in 30+ major R&D projects, co-funded with industry to drive innovation and impact.
- **Accelerated R&D:** More than 15 companies supported through TRaCE R&D Vouchers for early-stage research
- **Startup Success:** 15 startups accelerated through Climate 10x and the I2N Accelerator.
- **Clean Energy Workforce:** 200+ professionals upskilled via micro-credentials and short courses in sustainability and green tech, and 25+ Industry PhD and Masters students tackling real-world, industry-led challenges. Master of Clean Energy launched at the University of Newcastle to build future capability.
- **New Innovation Infrastructure:** Two advanced workshops launched to strengthen Australia's testing and manufacturing capacity.

FROM LAB TO MARKET

EM Energy used a TRaCE R&D voucher to validate its green hydrogen technology at the University of Newcastle. Successful testing led to rapid scaling, a new facility, and deeper collaboration through TRaCE's Mobility fellowship and accelerator programs, accelerating innovation in clean energy from organic waste.



Picture: EM Energy and University of Newcastle researchers in the lab. From L-R: Mr Chris Wilson (Co-founder and Director, EM Energy), Dr Daniel Bishop (Research Associate), Dr Peter Richardson (Chief Investigator, University of Newcastle) and Ms Isabel Toasa (Co-Founder and Head of Research, EM Energy).

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