

EM ENERGY

POWERING THE WORLD WITH NATURE



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

ISABEL TOASA AND CHRIS WILSON

Organic & Sustainable Hydrogen Production.

EM Energy uses organic chemistry to create sustainable green hydrogen from biomass waste without needing heat, electricity or bacteria. Our technology converts diverse waste streams, including agricultural and coal waste, into 100% renewable, carbon-negative hydrogen on-site, minimising the need for transporting or storing hydrogen. This provides a new revenue stream from agricultural and coal waste residues, which would otherwise be buried in the ground or contribute to greenhouse gas emissions through burning.

COMPETITIVE ADVANTAGE

- Zero energy & heat – our hydrogen technology doesn't require any heat or energy significantly reducing costs
- Circular economy – although our technology is non-biological, it can accelerate anaerobic digestion, further improving the value of organic waste
- Diverse applications – compatible with agricultural residues, food waste and waste coal.

PARTNERS

- Trailblazer for Recycling and Clean Energy (TRaCE)
- NSW Decarb Hub Power Fuels including Hydrogen Network
- University of Newcastle.

SUCCESSFUL RESEARCH APPLICATION

- Agricultural waste to hydrogen
- Food waste to hydrogen
- Coal waste to hydrogen without heat or energy
- Hydrogen for industrial heating, chemical processing and sustainable fuels.

MORE INFORMATION

Isabel Toasa

E: info@emenergy.com.au

