

Biofuel requirements for New Zealand self-sufficiency

Dr Matt Boyd

Executive Director

[\(Adapt Research / Islands for the Future of Humanity\)](#)**3:00pm (NZST), 1 April 2025****10:00am (AWST) | 11:30am (ACST)****12:00pm (AEST) | 1.00pm (AEDT)**

About the webinar:

[Islands for the Future of Humanity](#) provides analysis and mitigation options for global catastrophic risks such as extreme pandemics and nuclear war. Islands like New Zealand and Australia are vulnerable to trade and supply chain collapse impacting fuel and energy supply. Our analyses have determined the minimal volume of liquid biofuel to sustain food production and local shipping in scenarios of catastrophic loss of fossil fuel imports.

Biodiesel is increasingly used as shipping fuel globally. This trend is projected to accelerate. Governments are looking for ways to ensure liquid fuel security in the face of geopolitical tensions.

- The [New Zealand Fuel Security Study](#) (2025) highlights the potential security role of liquid biofuels.
- Islands for the Future of Humanity has developed case study analyses of liquid biofuel for [food security](#) and [shipping resilience](#).
- There are likely co-benefits, eg in terms of other disasters and greenhouse gas emissions.
- This thinking should also be applied to solid and gaseous biofuels and the role of wood and biogas to support basic needs should be researched.

The Bioenergy Association invites all interested parties to attend this webinar, where resilience to global catastrophic risks will be discussed and followed by opportunities for questions and input.

[Register for the webinar here >](#)

Continuing Professional Development (CPD) - The Bioenergy Association supports members by providing opportunities such as this webinar that contributes towards CPD and maintaining registration as a Biogas Adviser. For more details [email the Executive Officer](#) for more details.



Matt holds a medical degree and PhD in philosophy. He has 10-years' experience researching global catastrophic risks such as extreme pandemics and nuclear war.

Matt has published dozens of peer-reviewed research papers on risk and resilience. He led the philanthropically funded 2023 [Aotearoa NZ Catastrophe Resilience Project](#) and is now the Executive Director of resilience org [Islands for the Future of Humanity](#).

Matt will co-present with **Mike Hodgkinson**, an independent researcher with focus on shipping resilience who has innovation experience in zero carbon fuel propulsion.

Attendance is **FREE** courtesy of EECA.