



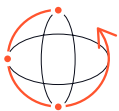
Delivering electricity where industry needs it

TERNARY . ENERGY



Ternary has developed a world-first renewable electricity system to deliver low cost, secure and emissions free energy to meet the demands of industry.

By moving electricity as a liquid using existing fossil fuel infrastructure, Ternary supplies energy cheaper than diesel, at 10 times the energy density of LFP batteries and with no emissions.



CLOSED LOOP
SYSTEM



FASTER
CHARGING



MORE
POWERFUL

Ternary is led by three experienced co-founders with proven track records of commercializing science to meet customer demands:

Chief Science Officer
Professor Aaron Marshall
(University of Canterbury, founder Zethos)

Executive Chairman
Dr Sean Simpson
(founder Lanzatech)

CEO Sean Molloy
(ex-Lanzatech, founder Avertana, current Chair Zethos).

Based in Auckland and Christchurch, New Zealand, Ternary combines world-class electrochemical scientists, engineers and commercial leaders.

This team is working with select multinational customers to deliver field trials of its recharger and converter systems.

The liquid electricity system is based on renewable chemicals derived from non-food biomass or waste feedstock. Our converter technology discharges these chemicals to produce electricity and a discharged fuel remains.

This is collected and returned to our recharger where it is converted back to charged ethanol ready to resupply to customers.

Our system acts as a closed loop in which discharged fuel is collected at the same time as charged fuel is delivered. Power is maintained continuously for customers.

TERNARY

Powering off-grid construction sites

The challenge

Dutch construction and civil infrastructure sites run on diesel generators or grid connections. But operators face severe grid congestion, years-long waits for connection, emissions-free regulations and ESG targets. Customers are looking for a viable alternative to diesel and the grid.

The solution

Ternary supplies off grid, zero-emission energy as a service. Our converter turns renewable ethanol into electricity that is delivered just like diesel with no green premium.



How it works on site



Pay per kWh

Energy delivered at a diesel competitive price as low as €0.90/kWh at volume. Hardware is leased, no capex required.



One source, whole site

Powers cabins, lighting, cranes, plant, security and IT, and charges electric machinery.



Delivered like diesel

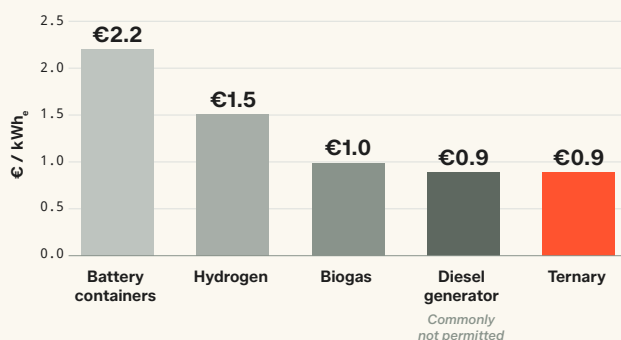
Fuel consumption is remotely monitored and refuelling is scheduled automatically. The Ternary partner network handles all logistics



Compliant & quiet

Zero point-of-use emissions and near-silent.

kWh_e price at the construction site – decentralised generation (1,200 kWh_e/day)



The customer benefits

Unlock restricted sites

Keep building in nitrogen-restricted zones where diesel is not permitted.

Practicality

Bypass the connection queue. Avoid battery swaps on difficult to navigate sites. Eliminate high pressure gas storage safety risks.

Reliable & managed

24/7 monitoring, fuel and maintenance under one service contract.

High climate impact

Zero CO₂, NO_x and particulate emissions. Auditable, verified carbon and energy data for procurement.