# Examples of Climate Technology in New Zealand

*Organised by emissions impact and sector contribution to New Zealand's climate footprint*

**1. Agriculture & Methane Reduction *(NZ's largest source of emissions – over 48%)***

- Fonterra – In collaboration with AgResearch, working on 'Kowbucha', a probiotic solution to reduce methane emissions from cows. https://www.fonterra.com/nz/en.html
- MethaneSAT – A global satellite project backed by the New Zealand government to track agricultural methane emissions. https://www.methanesat.org/
- Ravensdown's EcoPond – Technology that reduces methane emissions from dairy effluent ponds. https://www.ravensdown.co.nz/in-the-community/fonterra-invests-in-ecopond-pilot-to-reduce-on-farm-emissions
- Ruminant Biotech – Developing a methane-inhibiting vaccine for livestock. https://ruminantbiotech.com/

**2. Transport Electrification & Mobility *(NZ's second-largest emissions sector – over 20%)***

- Hiringa Energy – Developing New Zealand's green hydrogen refueling network for heavy transport. https://www.hiringa.co.nz/
- Kwetta – Grid-first EV fast charging for buses, trucks and cars. https://kwetta.com/
- MEVO – New Zealand-based electric vehicle car-sharing company. https://mevo.co.nz/
- Wisk Aero – Developing a self-flying, all-electric air taxi in NZ with Boeing's support. https://wisk.aero/
- Zilch – A 100% electric vehicle car-sharing company. https://www.zilch.nz/

**3. Renewable Energy, Storage & Smart Electricity Systems *(Critical enabler for decarbonisation across all sectors)***

- Aotea Energy – Smart home battery and optimisation software. https://www.aoteaenergy.com/
- Basis – Advanced smart panels for residential energy. https://www.wearebasis.com/
- Blackcurrent – Microgrid and DER Energy as a Service. https://www.blackcurrent.io/
- Cetogenix – Converting organic biomass into energy. https://www.cetogenix.co.nz/
- Ecotricity – Carbon-zero electricity retailer. https://ecotricity.co.nz/
- Lodestone Energy – Large-scale solar farms. https://lodestoneenergy.co.nz/
- Octopus Energy – Tech-driven electricity solutions. https://octopusenergy.nz/about-us

**4. Carbon Capture, Forestry & Industrial Decarbonisation *(Combines land-based sinks, industrial emitters & $CO_2$ removal tech. Growing category essential for offsetting and industrial transformation.)***

- Aspiring Materials – $CO_2$ removal using mineral-based tech. https://www.aspiringmaterials.com/
- Captivate Technology – $CO_2$ capture from industrial streams. https://www.captivatetechnology.com/
- Carbonscape – Biochar and carbon material from biomass. https://carbonscape.com/
- Forest360 – LiDAR and GIS forest inventory and monitoring. https://forest360.nz/
- Goodnature – Biodiversity-enhancing pest management tech. https://www.goodnature.co.nz/
- Hot Lime Labs – Clean $CO_2$ production for greenhouse use https://hotlimelabs.com/
- LanzaTech NZ – Converts waste carbon emissions into fuels and chemicals. https://www.lanzatech.com/

**5. Circular Economy & Sustainable Materials *(Addresses emissions reduction by waste, construction, and material use)***

- Humitech – Organic waste to compost and biofertiliser https://www.humitech.co.nz/
- Mint Innovation – E-waste recovery through urban mining. https://mint.bio/
- XFrame – Reusable, modular timber construction framing. https://xframe.com.au/

**6. Climate Data, AI & Market Platforms *(Tracking, optimisation, and carbon market tools. Critical enabler for insight, behaviour change, and emissions transparency)***

- Cogo – Carbon tracking fintech for consumers and businesses. https://cogo.co/
- Open Country Dairy – AI-driven emissions monitoring. https://www.opencountry.co.nz/
- Synlait – AI tools for on-farm emission tracking. https://www.synlait.com/
- Toha – Blockchain-based carbon credit marketplace. https://toha.nz/

**7. Other Industries & Emerging Innovations *(Smaller contributors or future potential – important but not yet systemically central)***

- Goodnature – Biodiversity preservation and predator control
  https://goodnature.co.nz/

Additions to consider:

- Built environment energy efficiency (e.g., HVAC, building performance tech)
- Water and irrigation optimisation (smart tech in agriculture and urban water systems)
- Climate risk and adaptation analytics (resilience tools for infrastructure, land use)