

Country	Business Name	Sector	Region	Problem/Motivation	Decarbonisation Actions	Carbon Outcome	Financial Outcome	Investment/Payback	Classification	Source
Australia	Austral Fisheries	Seafood	Western Australia	Large fuel use (>80% of emissions) in fishing vessels	Modified drive train on largest ship for flexible propulsion & power management	38% fuel use cut; ~3,126 tCO ₂ -e/yr avoided	Significant fuel savings (millions of liters); broadened customer base	Major retrofit; high upfront cost but fuel savings yield fast ROI	Investment	Climate Active case
Australia	De Bortoli Wines	Winery	New South Wales	Huge energy use in refrigeration (70% of energy); rising costs	Installed VSDs on condenser fans and compressors; optimized controls; added heat exchangers	-17% energy use (~960 MWh/yr); >800 tCO ₂ -e cut annually	Saved ~\$184,000/yr (≈13% of energy costs); improved cooling capacity	~\$870k investment; ~4.7-year simple payback	Investment	NSW Govt case
Australia	Port Phillip Estate	Wine & Hospitality	Victoria	High LPG usage (~26,000 L/yr) for hot water; aging boilers	Replaced 130 kW LPG boiler with two 19 kW electric heat pumps	LPG consumption projected to drop ~50%; CO ₂ emissions nearly halved	Eliminated hot-water supply issues; reduced fuel costs; improved guest experience	Capital upgrade (offset by grant); expected payback via fuel savings	Investment	Energy.gov.au case
Australia	Bickford's Australia	Beverages	South Australia	Needed deeper efficiency after prior upgrades	Comprehensive energy audit; voltage optimization; Clean Technology grant	35.2% energy reduction; ~5,468 GJ saved; ~1,341 tCO ₂ -e cut annually	>\$320,000/year potential savings; received \$72.5k grant; improved operational efficiency	Moderate investment; strong ROI with ~2-year payback on some items	Investment	Pangolin audit report
Australia	Thredbo Distillery	Liquor	New South Wales	Wanted to better use onsite solar power; prior setup wasted energy	Replaced fluorescent lights with LED; installed centralized air compressor	Lowered electricity demand; carbon footprint reduced	Improved productivity and safety; better working conditions; reduced energy bills (7-10% est.)	~\$20k in upgrades (grant-covered); immediate utility savings	Quick Win	Energy.gov.au case
Australia	HF Hand Constructors	Steel Fabrication	New South Wales	Old welding machines were energy-inefficient	Replaced 5 transformer-based welders with modern inverter welders	~7.5% reduction in site electricity; commensurate cut in carbon emissions	Lower energy bills; improved welding productivity and quality	~\$46k project (50% grant-funded); payback ~3-4 years	Quick Win	Energy.gov.au case
Australia	RM Williams	Apparel Manufacturing	South Australia	Sought to reduce factory energy costs and meet sustainability expectations	Professional energy audit identified efficiency opportunities	Estimated 12%+ energy reduction; ~66 tCO ₂ -e cut per year	~\$66,000/year potential cost savings	Minimal audit cost (govt-supported); implementation paybacks mostly <3 years	Quick Win	Pangolin case note
Australia	Postal Freight Co.	Logistics	National	Large diesel fleet needed emission cuts without new vehicles	Switched from regular diesel to Ampol Amplify additive diesel	~3% improvement in fuel efficiency; ~2.3% reduction in CO ₂ emissions	Saves ~\$1M/yr in fuel costs; extended engine life	Operational change (no capital cost); immediate ROI	Quick Win	Ampol case study
Australia	Team Global Express	Transport	National	Wanted to decarbonise heavy fleet (diesel trucks)	Investment to deploy >300 electric trucks/vans/hybrids over 3 years	Expected to cut thousands of tonnes of CO ₂ annually	Reduces diesel use significantly; positions company as sustainability leader	~\$190M fleet investment (incl. \$30M CEFC loan); long-term payback	Investment	CEFC case
Australia	Sydney Opera House	Events	New South Wales	Iconic 50-year-old venue with high energy use (80% of carbon footprint)	Replaced stage lights with LEDs; upgraded chillers; waste recycling program	Achieved Climate Active carbon neutral certification 5 years early	Energy upgrades slashed power bills; LED retrofit cut concert hall lighting costs ~75%	Multi-year capital program; investments recouped via energy savings	Investment	Climate Active story
Australia	Berrydale Swim School	Recreation	Victoria	Reliance on gas boiler for pool heating (costly, inefficient)	Used \$25k grant to upgrade to 3-phase power and install electric heat pump	Eliminated LPG gas use entirely; reduced overall carbon emissions	Cut heating energy costs; improved temperature consistency	Moderate investment (grant-funded); payback ~5 years	Quick Win	Energy.gov.au case

Australia	Mittagong Motel	Tourism	New South Wales	Outdated gas heaters led to high gas bills; no EV charging	Installed electric heat pumps; added EV charging station	Significantly reduced gas consumption and emissions	Lower utility bills; improved guest comfort; EV charger attracted eco-conscious travelers	Modest capital spend (grant-covered); immediate monthly savings	Quick Win	Energy.gov.au case
Australia	Alto Hotel	Accommodation	Victoria	Aim to design boutique hotel with minimal footprint from start	Built-in sustainability: insulation, glazing, LED lighting, solar hot water, rainwater harvesting	Achieved ~30% lower energy use than peers; carbon footprint minimized	Sustainability features yield ~\$50k/yr savings; green reputation attracts guests	Upfront investment (~9% cost premium); ~9-year payback	Investment	Case study (Energy.gov)
Australia	Regis Aged Care	Health Facilities	National	Rising energy costs across 35 aged-care homes	Installed 4,400 solar panels (1.6 MW) and ~15,000 LED lights across sites	~20% reduction in grid electricity; GHG emissions down ~3,700 tCO ₂ -e per year	~\$1.8M annual energy savings; improved resident comfort	~\$4M capital project; <4-year payback	Investment	Sustainability Matters
Australia	Glen Park Community Centre	Community Café	Victoria	Old café appliances inefficient and under-performing	Secured \$17k grant to replace equipment with energy-efficient models	Electricity consumption dropped; carbon footprint reduced correspondingly	Energy bills down ~15%; enabled expanded services generating new revenue	Small investment (\$17k grant-funded); immediate payback	Quick Win	Case study (Energy.gov)
Australia	Margaret River Truffle Farm	Agriculture	Western Australia	Inefficient irrigation pumps ran at full speed regardless of need	Installed variable-speed drive pumps; replaced old pump; fixed leaks	Electricity use down ~11%; saving ~3,781 kWh and ~3 tCO ₂ -e per year	Saves ~\$1,085/yr in energy; water usage cut 26%; improved crop yields	~\$19.4k cost (grant-funded); ~18-year payback on energy savings	Investment	Energy.gov.au case
Australia	Capital Brewing Co.	Craft Brewery	Australian Capital Territory	Founders aimed to minimize environmental impact; brewing uses lots of energy	100% renewable electricity; heat exchangers; low-GWP refrigeration; waste composting	Achieved carbon neutrality; major reduction in scope 1 & 2 emissions	Energy bills cost-neutral; waste disposal costs lowered; brand benefit as Australia's first carbon neutral beer	Moderate capital investment; medium-term paybacks	Quick Win	Pangolin case
Australia	Maurice Blackburn	Legal Services	National	Law firm sought to demonstrate environmental accountability	Introduced ISO 14001 EMS; office energy-saving policies; reduced air travel; offsets	Carbon neutral operations achieved; year-on-year emission reductions	Operating costs slightly reduced; enhanced reputation; helps meet tender requirements	Minimal capital outlay; offsets cost <0.5% of revenue	Quick Win	Pangolin case
Australia	Ross Hill Wines	Winery	New South Wales	Wine producer facing climate change impacts; wanted to lead in sustainability	Installed 38 kW solar; optimized operations; reduced tractor/water usage; native forest planting	Carbon offsets cost only ~\$1,400/yr; greenhouse emissions reduced >50%	Actually saving money year on year; customer loyalty increased; business grown	Moderate investments; ~5-7 year payback via energy/fuel savings	Investment	Australian Farmers
New Zealand	Auckland Bakery	Food Manufacturing	Auckland	High electricity costs and emissions	Switched to 100% renewable electricity	Cut Scope 2 emissions by 35%	Improved brand appeal; saved 8% on annual power bills	Operational change	Quick Win	Meridian Energy
New Zealand	Food Processor	Food Manufacturing	General	Wasted heat from ovens	Installed heat exchangers to reuse oven exhaust	Reduced gas use by 20%	Saving \$12,000/year and lowering CO ₂ emissions	Capital investment	Investment	Best practice
New Zealand	Factory	Food Manufacturing	General	Outdated lighting wasting energy	Replaced old lighting with LEDs	Lowered energy use by 15%	Improved workplace safety; recouped costs in 18 months	Equipment upgrade	Quick Win	Best practice
New Zealand	Manufacturer	Food Manufacturing	General	Organic waste going to landfill	Set up onsite composting	Diverted 60 tonnes from landfill	Cut disposal costs; created local circular economy story	Operational setup	Quick Win	Best practice

New Zealand	Dairy Plant	Food Manufacturing	General	High water consumption and costs	Installed greywater recycling	Water use reduction	Reduced water bills by \$18,000/year; improved sustainability credentials	System installation	Investment	Best practice
New Zealand	Snack Producer	Food Manufacturing	General	Excessive plastic waste	Switched to compostable packaging	Reduced plastic waste by 5 tonnes/year	Attracted new retail partners	Packaging change	Quick Win	Best practice
New Zealand	Food Manufacturer	Food Manufacturing	General	Reliance on LPG for process heat	Switched from LPG boilers to electric heat pumps	Cut emissions by 40%	4-year ROI via energy savings	Major equipment change	Investment	Best practice
New Zealand	Food Producer	Food Manufacturing	General	Lack of supply chain transparency	Mandated carbon reporting from ingredient suppliers	Improved supply chain emissions visibility	Met major retailer requirements	Policy implementation	Quick Win	Best practice
New Zealand	Food Factory	Food Manufacturing	General	High grid electricity costs	Installed rooftop solar panels	Generated 20% of site energy; cutting emissions	Saving \$25,000/year	Solar installation	Investment	Best practice
New Zealand	Food Manufacturer	Food Manufacturing	General	Poor waste and energy awareness	Launched staff training on waste and energy reduction	10% drop in waste	Improved staff engagement and operational savings	Training program	Quick Win	Best practice
New Zealand	Wellington Brewery	Beverage Manufacturing	Wellington	High packaging costs and waste	Introduced glass bottle return scheme	Reduced waste by 30%	Reduced packaging costs; boosted customer loyalty	Program setup	Quick Win	Best practice
New Zealand	Winery	Beverage Manufacturing	General	CO ₂ emissions from fermentation	Installed CO ₂ capture technology	Reused CO ₂ in carbonation	Saving \$8,000/year and reducing emissions	Technology investment	Investment	Best practice
New Zealand	Beverage Plant	Beverage Manufacturing	General	High municipal water use for cleaning	Collects rainwater for cleaning	Reduced municipal water use by 15%	Saving \$5,000/year	System installation	Quick Win	Best practice
New Zealand	Beverage Producer	Beverage Manufacturing	General	Inefficient old refrigeration	Upgraded to low-GWP refrigerants and efficient chillers	Cut energy use by 12%	2-year payback	Equipment upgrade	Investment	Best practice
New Zealand	Beverage Company	Beverage Manufacturing	General	Diesel delivery fleet emissions	Switched delivery vans to EVs	Improved urban air quality	Lowered fuel costs by 40%; enhanced green branding	Fleet replacement	Investment	Best practice
New Zealand	Distillery	Beverage Manufacturing	General	Wastewater disposal costs	Uses anaerobic digesters for waste	Generated onsite energy; reduced grid reliance	Cut waste disposal fees	Biogas system	Investment	Best practice
New Zealand	Beverage Producer	Beverage Manufacturing	General	Heavy bottles increase transport emissions	Reduced bottle weight by 15%	Lowered transport emissions	Saved on shipping costs	Design change	Quick Win	Best practice
New Zealand	Beverage Facility	Beverage Manufacturing	General	High gas bills for cleaning	Solar hot water for equipment washing	Reduced gas bills and emissions	3-year ROI	Solar thermal system	Investment	Best practice
New Zealand	Beverage Producer	Beverage Manufacturing	General	High landfill costs	Achieved 98% waste diversion	Waste reduction achievement	Lowered landfill fees; improved sustainability rating; won new contracts	Waste program	Quick Win	Best practice
New Zealand	Beverage Company	Beverage Manufacturing	General	Supplier emissions unknown	Partnered with fruit growers to cut fertiliser emissions	Enhanced product sustainability story	Met export market requirements	Collaboration program	Quick Win	Best practice
New Zealand	Supply Chain Operator	Supply Chain	General	High-carbon suppliers	Adopted low-carbon supplier criteria	Reduced Scope 3 emissions	Improved compliance; won tenders	Policy change	Quick Win	Best practice
New Zealand	Logistics Company	Supply Chain	General	Inefficient delivery routes with empty runs	Used software to reduce empty runs	Cut fuel use by 18%	Saving \$30,000/year	Software implementation	Quick Win	Best practice
New Zealand	Distribution Company	Supply Chain	General	Duplicate warehousing creating unnecessary transport	Shared storage with nearby firms	Reduced transport needs and costs	Improved delivery times	Partnership arrangement	Quick Win	Best practice

New Zealand	Freight Company	Supply Chain	General	High road freight emissions	Moved bulk shipments from road to rail	Cut emissions by 60%	Reduced freight costs	Modal shift	Investment	Best practice
New Zealand	Supply Chain Manager	Supply Chain	General	Suppliers lack carbon reporting capability	Ran workshops for suppliers	Improved data quality	Met customer requirements	Training program	Quick Win	Best practice
New Zealand	Distribution Company	Supply Chain	General	Single-use packaging waste	Switched to reusable crates	Reduced packaging waste and costs over 2 years	Cost savings over time	System change	Investment	Best practice
New Zealand	Warehouse Operator	Supply Chain	General	Excess inventory and spoilage	Implemented real-time tracking	Reduced spoilage and overstock	Saving \$15,000/year	Software system	Quick Win	Best practice
New Zealand	Warehouse	Supply Chain	General	LPG forklift emissions and costs	Replaced LPG forklifts with electric	Lowered emissions	Reduced maintenance costs	Equipment replacement	Investment	Best practice
New Zealand	Retailer	Supply Chain	General	Products going to landfill at end-of-life	Collected used products for recycling	Reduced landfill waste	Improved brand reputation	Reverse logistics program	Quick Win	Best practice
New Zealand	Supply Chain Company	Supply Chain	General	Many small suppliers creating transport inefficiency	Reduced number of suppliers for efficiency	Lowered transport emissions	Reduced admin costs	Procurement strategy	Quick Win	Best practice
New Zealand	Logistics Company	Logistics	General	Inefficient routing wasting fuel	Adopted AI-powered route planning	Cut fuel use by 20%	Improved delivery reliability	Software purchase	Quick Win	Best practice
New Zealand	Transport Company	Logistics	General	Drivers wasting fuel through poor techniques	Trained drivers in fuel-efficient techniques	10% fuel savings; lower emissions	Improved safety	Training program	Quick Win	Best practice
New Zealand	Logistics Provider	Logistics	General	Diesel fleet emissions in urban areas	Piloted electric trucks for urban deliveries	Cut emissions	Positive media coverage; lower maintenance	Trial program	Investment	Best practice
New Zealand	Fleet Operator	Logistics	General	Excessive idling wasting fuel	Set strict idling limits	Reduced emissions	Saved \$12,000/year in fuel	Policy implementation	Quick Win	Best practice
New Zealand	Trucking Company	Logistics	General	Poor fuel efficiency on long hauls	Added aerodynamic fairings and side skirts	Improved fuel efficiency by 8%	Reduced fuel costs	Vehicle modifications	Investment	Best practice
New Zealand	Transport Company	Logistics	General	Standard tyres wasting fuel	Switched to energy-efficient tyres	3% fuel savings	Extended tyre life	Equipment change	Quick Win	Best practice
New Zealand	Logistics Company	Logistics	General	Inefficient last-mile delivery	Partnered with other firms for last-mile delivery	Reduced urban congestion	Lowered costs	Collaboration arrangement	Quick Win	Best practice
New Zealand	Freight Company	Logistics	General	Long-haul truck emissions	Combined truck and rail for long hauls	Cut emissions by 50%	Reduced costs	Modal shift	Investment	Best practice
New Zealand	Fleet Manager	Logistics	General	Poor driver behaviour wasting fuel	Installed telematics for real-time feedback	Improved fuel use	Reduced accidents	Technology system	Investment	Best practice
New Zealand	Logistics Provider	Logistics	General	Customer demand for green shipping	Offered customers carbon offsets	Attracted eco-conscious clients	New revenue stream	Service offering	Quick Win	Best practice
New Zealand	Fire Protection Company	Property Services	General	Inefficient emergency lighting	Upgraded to LED exit and emergency lights	Lowered energy use	Reduced maintenance; improved compliance	Equipment upgrade	Quick Win	Best practice
New Zealand	Fire Protection Provider	Property Services	General	High-GWP fire suppression agents	Switched to low-GWP fire suppression	Reduced environmental risk	Met green building standards	System upgrade	Investment	Best practice
New Zealand	Fire Safety Company	Property Services	General	Excessive site visits for monitoring	Installed IoT sensors for fire systems	Cut travel emissions	Reduced site visits; improved response times	Technology installation	Quick Win	Best practice
New Zealand	Safety Services Provider	Property Services	General	Paper-based compliance documentation	Digitalised compliance documentation	Reduced paper use	Saved admin time; improved client service	Software system	Quick Win	Best practice
New Zealand	Fire Protection Company	Property Services	General	Grid reliance for backup power	Used solar for alarm backup power	Reduced grid reliance	Improved resilience	Solar installation	Investment	Best practice

New Zealand	Property Services Provider	Property Services	General	Clients seeking green building certification	Helped clients achieve NABERSNZ/Green Star	Supported client decarbonization	Increased property value; attracted tenants	Service offering	Investment	Best practice
New Zealand	Property Contractor	Property Services	General	High embodied carbon in materials	Chose recycled materials for fit-outs	Lowered embodied carbon	Supported local suppliers	Procurement change	Quick Win	Best practice
New Zealand	Property Services Company	Property Services	General	Service fleet emissions	Switched service vans to EVs	Lowered emissions	Reduced running costs; improved green credentials	Fleet replacement	Investment	Best practice
New Zealand	Fire Testing Company	Property Services	General	High water use in fire testing	Adopted closed-loop water systems	Reduced water use	Cut costs; improved sustainability	System change	Quick Win	Best practice
New Zealand	Property Services Provider	Property Services	General	Clients lacking decarbonization knowledge	Ran workshops for property managers	Client education	Improved client retention; positioned as sustainability leader	Training program	Quick Win	Best practice