

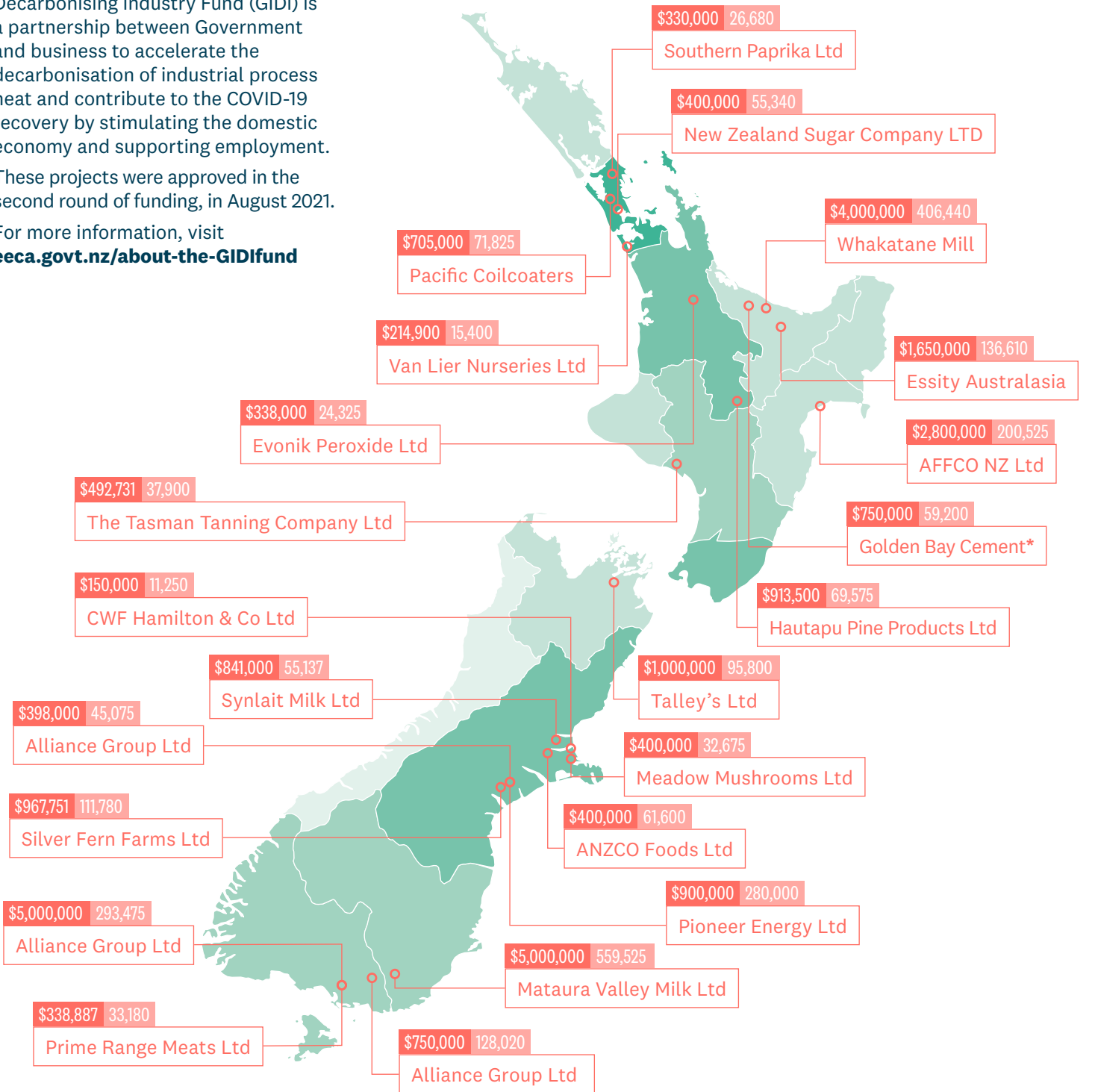
The GIDI Fund

Round Two Projects: August 2021

The Government Investment in Decarbonising Industry Fund (GIDI) is a partnership between Government and business to accelerate the decarbonisation of industrial process heat and contribute to the COVID-19 recovery by stimulating the domestic economy and supporting employment.

These projects were approved in the second round of funding, in August 2021.

For more information, visit eeca.govt.nz/about-the-GIDIfund



■ EECA Co-Investment
■ Lifetime Carbon Abatement (tonnes)
* Project withdrawn post announcement
Note: Emissions data based on applicants' submissions



of process heat is fossil-fuelled, mainly by gas and coal.

A total of
2,432,347
TONNES

lifetime carbon abatement

Annual carbon abatement of round 2 projects equivalent to taking

51,900

cars off the road

Figures were correct as at April 2022, and factor in all projects confirmed as part of Round 2.

Recipient	Recipient Description	Project or Site Location	Project Title	Project Benefit	Approved GDI Co-funding	Estimated Lifetime Carbon Abatement (tonnes)
Pacific Coilcoaters	Pacific Coilcoaters manufactures Colorcote® roofing and cladding products. It is a business unit of Fletcher Steel that collectively employs almost 800 New Zealanders at 13 locations across the country. Fletcher Steel is a division of Fletcher Building Limited, New Zealand's largest producer of construction and building supplies.	Penrose, Auckland	Significant decarbonisation of the painting process for Colorcote® products	Replacement of existing gas-fired ovens and oxidisers with electric ovens and upgrade of electricity supply infrastructure.	\$705,000	71,825
Talley's Limited - Blenheim	Talley's Seafood and Vegetable processes a wide range of vegetables and shellfish across New Zealand. It forms part of the wider Talley's Group of companies and employ over 700 people New Zealanders.	Blenheim	Replacement of fossil fuel boilers with wood pellet boiler	The project will replace three diesel and two coal boilers with a new 6MW wood pellet. The steam reticulation system will also be improved with a new steam distribution header that will improve energy efficiency.	\$1,000,000	95,800
Alliance Group Limited - Smithfield	Alliance Group is a leading farmer co-operative exporting lamb, beef, venison and co-products to more than 65 countries. They employ over 5000 people and operate 8 processing plants; 2 in the North Island and 6 in the South Island. They deliver around 15% of the world's export traded sheepmeats, produced chilled or frozen for wholesale trade through to direct retail sale.	Smithfield, Timaru	Smithfield Heat Recovery Project	This project will capture waste heat from the refrigeration plant and use this to heat water which is currently done with coal. This water can be used across the plant.	\$398,000	45,075
Essity Australasia	Essity Australasia produces toilet and towel tissue products for the commercial, public, health care, food service and industrial sectors. It operates in NZ, Australia and Fiji.	Kawerau, Bay of Plenty	Essity Australasia Geothermal heat Project - Kawerau Paper Machine 3 (KPM3) Decarbonisation	This Project involves replacing a large heating drum and hood used to dry tissue paper as it is manufactured on one of two paper machines (KPM3) located at the Kawerau Site in the Bay of Plenty - to allow fuel switching from natural gas to renewable geothermal steam.	\$1,650,000	136,610
Silver Fern Farms Limited - Pareora	Silver Fern Farms are New Zealand's largest livestock processing and marketing company. They are a leading procurer, processor, marketer and exporter of premium quality lamb, beef and venison, to over 60 countries. They produce 30% of all New Zealand lamb, beef and venison, in partnership with 16,000 sheep, beef and deer co-operative farmers, across 14 plants with 7,000 staff in the peak of the season.	Pareora	Pareora Hot Water Heat Pump Project	This project is to install a high temperature heat pump at the Pareora site to preheat hot water for the processing plant, shifting heating load away from the existing coal boiler.	\$967,751	111,780
Meadow Mushrooms Ltd	Meadow Mushrooms is a privately owned, horticultural company providing fresh mushroom nationwide. They operate from 4 sites and have approximately 470 employees. The company has a goal to get to net zero by 2025.	Hornby, Christchurch	Electric Boiler to replace Diesel Boiler	The project will replace a diesel boiler with a 2.5MW electric resistive boiler at Meadow Mushroom's main growing and packing site in Hornby, Christchurch.	\$400,000	32,675
New Zealand Sugar Company Limited	NZ Sugar (Chelsea) has operated the only sugar refinery in New Zealand for over 130 years. It employs approximately 200 people, produces approximately 210,000 t.p.a. of sugar products for local and South Pacific markets. NZ Sugar is owned by Wilmar International.	Auckland	NZ Sugar – New Evaporator and Mechanical Vapour Recompression (MVR) Project	Replacing the existing Evaporator and Thermal Vapour Recompression (TVR) system with a new Evaporator and Mechanical Vapour Recompression (MVR) system for steam demand reduction and 10% fuel switching from natural gas to electricity.	\$400,000	55,340
The Tasman Tanning Company Limited	Tasman Tanning is an end to end leather manufacturer located in Wanganui, New Zealand, producing leather products for export and third-party contract tanning. We currently have 260 employees across two sites both located on Heads Road in Castlecliff, Wanganui.	Wanganui	Infrared leather dryers and wastewater source heat pump.	Infrared (electric) leather dryers will replace natural gas heated steam leather dryers in the finishing plant. A heat pump using wastewater as a heat source will replace natural gas water heaters at the tanyard and dyehouse operations.	\$492,731	37,900
Mataura Valley Milk Limited	Mataura Valley Milk Ltd (MVM), part of The a2 Milk Company, is a world class dairy based nutritional facility located in Gore, Southland supporting 105 full time jobs. Milk is sourced from a small group of 34 local suppliers who farm some of the most pristine pastures in NZ. The main activity of MVM is the production of premium infant and nutritional base powders.	Gore, Southland	Project 'Recharge' - Symbolising new beginnings and renewable energy	New Zealand's first high pressure electrode boiler (15MW) will be installed to replace all current coal fired heat duties on the MVM site making the site 100% electrified. The project includes transmission upgrades on and offsite to support the new electrical load.	\$5,000,000	559,525

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Evonik Peroxide Ltd	Evonik Peroxide Limited produces hydrogen peroxide used mainly as bleach in the pulp and paper and mining and cleaning industry. It employs 26 technical staff in the Waikato region. Evonik Peroxide is owned by global industrial company Evonik Industries AG	Morrinsville, Waikato	Morrinsville Hydrogen Plant Efficiency Upgrade	This project will reduce the amount of natural gas uses at the Morrinsville plant by 6%. It will increase heat recovery and improve hydrogen yield through an LTS catalyst-based reactor, reducing emissions.	\$338,000	24,325
AFFCO New Zealand Limited - Wairoa	AFFCO has been at the forefront of the meat industry for over 100 years. They export more than 150,000 tonnes of lamb and beef meat products to over 80 countries each year. In addition, they also produce veal, mutton, goat, leather, hides, protein meals, tallow, wool and blood serums. AFFCO is part of the Talleys Group of companies and employs over 2800 people across 9 plants throughout NZ.	Wairoa	Heat Recovery & Boiler Replacement	This energy project is to include high temperature heat recovery from a new ammonia engine room and make changes to the hot water system to improve it's efficiency and use. This demand reduction is expected to allow the existing coal boiler operating at 8MW to be replaced with a 6MW biomass boiler.	\$2,800,000	200,525
Southern Paprika Limited	Southern Paprika is NZ's largest single site horticulture grower near Auckland , privately owned by the Alexander and Levarht families. Over the last 22 years, the site has grown to 26 hectares of glass houses, employing around 160 people locally and from the Pacific Islands.	Warkworth, Auckland	SPL Energy Screen and Energy Transition Enabler Project	This project will retrofit high efficiency energy screens into the first early design 5Ha of glasshouse reducing heat loss through the evening, reducing reliance of gas boilers and increasing crop yield.	\$330,000	26,680
Synlait Milk Ltd	Synlait combines expert and sustainable farming practices with state-of-the-art manufacturing processes to produce a range of dairy based nutritional products that provide genuine benefits for human health and wellbeing. Synlait's commitment to elevating people and planet to the same level as profit was recognised in June 2020 when it became part of the B Corp™ community. They operate from six manufacturing sites throughout NZ.	Dunsandel, Canterbury	Electrode Boiler Maximisation	Synlait installed NZ's first Electrode Boiler in March 2019 for its new liquids factory. Synlait plan to maximise the use of the Electrode Boiler by connecting it to Synlait's main site and upgrading electrical supply so that the electrode boiler can run at its maximum rated capacity of 12MW.	\$841,000	55,137
Hautapu Pine Products Limited	Hautapu Pine is a family-owned specialist producer of fence posts, poles and house piles, located just north of Taihape. With over 50 employees in total and over 35 on site, they are one of the largest employers in the Taihape region.	Taihape	Hautapu Pine - replacing two coal boilers with a 3.2MW wood boiler	Hautapu Pine currently uses two coal boilers to generate steam to prepare posts and poles for treatment. This project will replace 100% of the coal usage by installing a 3.2MW wood boiler.	\$913,500	69,575
Pioneer Energy Limited	Pioneer Energy is a specialist provider with a number of district energy scheme partnerships throughout New Zealand involving councils and some of the country's leading primary producers and manufacturing exporters. Innovative design and specialist knowledge has seen Pioneer Energy create a number of award winning renewable energy, co-fired renewable energy and waste-to-energy solutions providing peace of mind from these secure, guaranteed energy supply hubs.	Washdyke, Timaru	Decarbonising steam supply to industrial businesses connected to the Washdyke Energy Centre	The project includes installation of a new automated biomass fuel handling system to deliver woody biomass to 2 x 10MW boilers, one of which will be re-commissioned as part of this project. This will eliminate coal as an energy source at Pioneer Energy's Washdyke Energy Centre.	\$900,000	280,000
Van Lier Nurseries Ltd	Van Lier Nurseries is located in Riverhead and produces cut roses and plants. They are a family owned company, with two sites at Riverhead and Massey in Auckland and employ 38 staff.	Riverhead, Auckland	Decarbonisation of boiler process heat	Heated glasshouses are required with high carbon emitting natural gas boilers providing the heat. The project aims to replace the boilers with a low carbon heat pump alternative.	\$214,900	15,400
Alliance Group Limited – Lorneville	Alliance Group is a leading farmer co-operative exporting lamb, beef, venison and co-products to more than 65 countries. They employ over 5000 people and operate 8 processing plants : 2 in the North Island and 6 in the South Island. They deliver around 15% of the world's export traded sheepmeats, produced chilled or frozen for wholesale trade through to direct retail sale.	Lorneville	Alliance Lorneville Electrode Boiler Project	This project will use a 16MW electrode steam boiler to provide steam and hot water for meat processing, thus displacing significant coal use with renewable electricity.	\$5,000,000	293,475
CWF Hamilton & Co Ltd	CWF Hamilton is a private company that manufactures aluminium water jets and controls. The company has offices in Singapore, UK and USA with all manufacturing in NZ. Total worldwide employees is close to 400 with approx. 250 in NZ.	Christchurch	Conversion from LPG based aluminium melting to electric.	The project will replace several existing LPG fired melters with electric furnances at its Christchurch site where melting aluminium is core to the business operations for high precision castings.	\$150,000	11,250

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Golden Bay Cement <i>Project withdrawn</i>	GBC is a trading entity of Fletcher Concrete and Infrastructure Ltd and operates NZ's only cement factory near Whangarei producing around 1 million tonnes of cement per year. With 200 direct employees in NZ it is a major employer in Northland.	Bay of Plenty	Biomass dryer for Pozzolan extraction and milling project.	This Project replaces a gas fired dryer with a wood pellet dryer at a new build facility. GBC will extract and process natural pozzolans in the Bay of Plenty as a cement supplement to reduce the amount of embodied CO2 in concrete by up to 50% cement whilst improving concrete durability.	\$750,000	59,200
Prime Range Meats Ltd	Prime Range Meats is an Invercargill based export meat company located on outskirts of town employing 180 staff on an full time basis. The company is 100% owned by Cuilam (New Zealand) Food Company Limited.	Invercargill, Southland	Prime Range Meats Decarbonisation Project	The project is the first stage in implementing Prime Range's Low Carbon Strategy using energy efficiency and technology upgrades that will reduce lignite use by 50%.	\$338,887	33,180
Alliance Group Limited – Maitua	Alliance Group is a leading farmer co-operative exporting lamb, beef, venison and co-products to more than 65 countries. They employ over 5000 people and operate 8 processing plants : 2 in the North Island and 6 in the South Island. They deliver around 15% of the world's export traded sheepmeats, produced chilled or frozen for wholesale trade through to direct retail sale.	Maitua, Southland	Maitua High Temperature Heat Pumps and Mechanical De-watering.	This project includes a heat pump system and mechanical sludge drying, which combined will removed almost all steam load. This will make it economically feasible to replace the highly inefficient coal boiler with a small diesel boiler used only for peaking.	\$750,000	128,020
ANZCO Foods Limited	ANZCO has grown rapidly over the last 30 years to be a world-class producer of beef and lamb products. They are well established in key markets, with trusted relationships across Oceania, Asia, North America, the Middle East and Europe ANZCO operates 10 manufacturing facilities in NZ employing more than 3,000 people.	Canterbury	ANZCO Canterbury Beef Processing Plant High Temperature Heat Pump	Installation of a 1MW High Temperature Heat Pump to reduce coal fired steam generation and provide hot water for processing at the ANZCO Canterbury Beef Processing Plant.	\$400,000	61,600
Whakatane Mill	Whakatane Mill produces paper and packaging products, mostly for export. It has operated for more than 80 years and is Whakatane's largest private employer. It has recently been bought by new investors with a renewed focus on products and markets.	Whakatane	Whakatane Mill Limited Stage 1 Carbon Reduction - Disc Filter	Installing a disc filter and required other equipment (tanks, piping, pumps, etc) to close up mill water cycle and thus increase process temperature to improve throughput without additional coal /gas usage.	\$4,000,000	406,440