



Great South Workshop with Invercargill City Council Letter of Expectation 2025/26

10 October 2024

Today's Presentation...

1. Our Priorities
2. GS Board directives
3. Tourism & Events
4. DISH – Data & Insights, Housing, Aquaculture
5. Sustainability & Spatial Planning

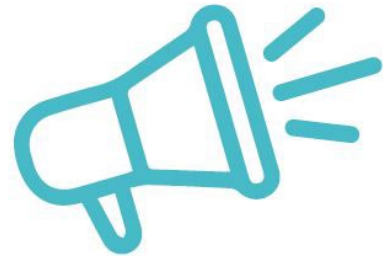


*“Even better
lives through
sustainable
regional
development”*

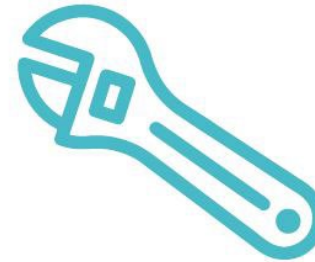
Our priorities



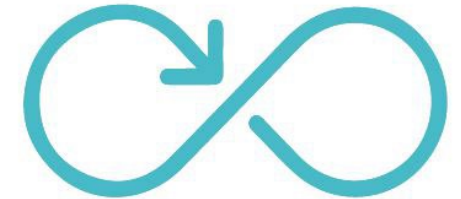
**Regional
development
leadership**



**Regional
promotion**



**Business support
and diversification**



**Net Zero
Southland
(Decarbonisation)**

GS Board Directives

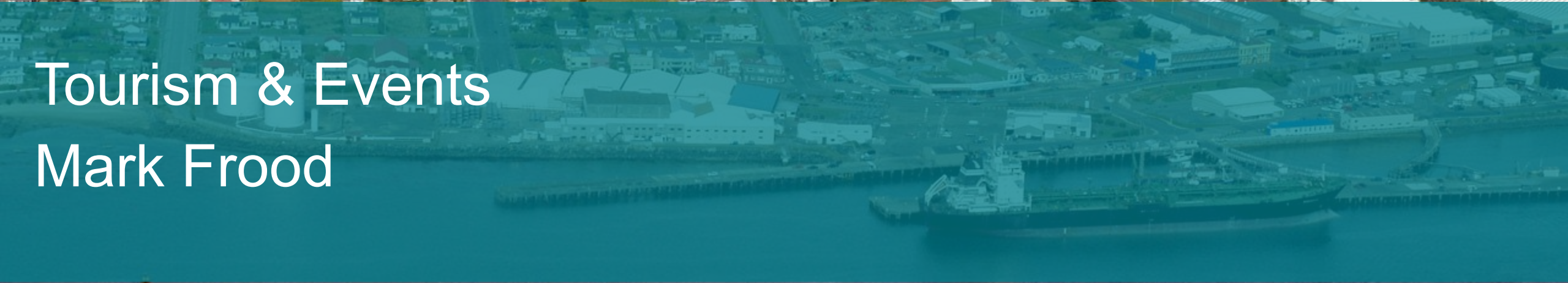
- DISH – Data & Insights
 - Continued development
 - Shared services opportunities
- Housing coordination
 - Subject to **additional** funding
- Aquaculture
 - Strategy implementation
- Tourism & events
 - Concentration on building business events
- Regional emissions & decarbonisation
 - Subject to external funding
 - Continue outreach programmes with local businesses
- What's our next big thing?
 - New business opportunities





Tourism & Events

Mark Froid



Strategy - Focused

- Murihiku Destination Strategy - Bluff, support existing assets (walking, cycleways, museums etc), support growing infrastructure (Hotels)
- Business Events and Events programs and Invercargill City Centre service agreement
- Regional Connectivity – Grow and improve – Invercargill hub (airport), Te Anau/Manapouri as a hub to grow Southland (sea and roading)
- Data – develop our regional data for better business decision-making
- Strengthen our communities via the visitor economy - Attracted to live, work, invest and educate in our vibrant communities

Focus FY 25/26 Opportunities

Deliver on SOIs

Building year-round travel to our region (non-peak shoulders) – align with TNZ’s off-peak strategy

Trade and PR - Famils – Demand focus.

Business Events - Incentive and grow future pipeline

We have got momentum....keep it going

- Southern Way - Airports Alliance – partnerships
- Trade - Tourism Export Council Conference was excellent for our region – keep the momentum
- Events - starting to have a strong portfolio of IVC/regional events – keep building awareness
- MOP - Where to next? What is the opportunity for us?

Increasing business events in IVC/region supports:

- Reduce Seasonality – Year-round attraction
- Economic Growth – Higher yielding, higher productivity sector (wider asset base eg Stadium, Civic Centre etc)
- Regional Profile – Enhances our regions capabilities, industries
- Improved Connectivity – Airline and regional
- Improved Social Outcomes – Employment and community (live, work, invest educate)
- Diversification – Opens opportunities to nontraditional tourism businesses, arts, cultural, creative sectors



Regional Development Leadership

Bobbi Brown

An aerial photograph of a modern residential housing development. The houses feature dark grey, gabled roofs and light-colored exterior walls. They are arranged around a central paved courtyard area with some greenery. In the background, there are larger commercial-style buildings with corrugated metal roofs and a parking lot with several cars. The overall scene is bright and clear, suggesting a sunny day.

Housing

Great South's Role with Housing (current Business Year)

Great South has been requested by its shareholders (including the region's Councils) to prioritise housing alongside other economic development aspirations. To date this has included:

1

Industry Liaison & Support



Being a conduit and connector with existing and new industry, key stakeholders, businesses and developers regarding current and future housing demand and supply.

2

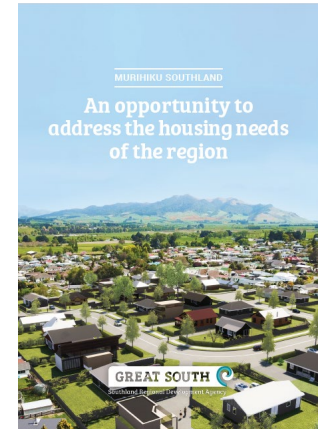
Council Support & Alignment



Support for individual councils to understand their role and aspirations regarding housing – enablers, providers, regulators.

3

Government Liaison, Advocacy & Funding



Advocacy, regional representation of housing issues and identification of funding opportunities.

4

Regional Strategic Planning & Implementation



Action Plan identifies 13 key actions, of which five enablers will be implemented by Great South by July 2025 (resourced in SOI).



Project 1: Regional Framework and Structure

OUTCOME:

A discussion document is developed for consideration by regional leaders, outlining options for structuring and enabling the regional approach to housing. This will include how we govern and drive the implementation of the Murihiku Southland Housing Action Plan.



Project 2: Housing Data Dashboard

OUTCOME:

Development of a digital housing dashboard which provides 'easy to access,' trusted and up to date housing data and insights.



Regional Housing Charter

Regional Housing Group



Project 9: Alignment of Housing with Spatial Planning and Infrastructure Provision

OUTCOME:

There is a lined-up approach through spatial planning and infrastructure provision to ensure homes are built in the right places to meet current and future demand.



Project 10: Planning Review to ensure we are "Development Ready"

OUTCOME:

Planning rules are fit for purpose to not only regulate, but enable our community and private sector to deliver quality homes (both retrofit and new builds).



Project 4: Digital Housing Portal

OUTCOME:

A "One Stop Shop" website is developed making it easy for people to find information on housing.

Next 12 months from 1 July 2025...

	Area of Focus	Current Business Deliverables (2024-25)	Proposed Next Year Deliverables (2025-26)
1	Industry Liaison & Support	<ol style="list-style-type: none"> 1. Linking developers, “the market” with Councils, data on the region etc. 2. Feeding potential housing needs of new business’ into modelling (to understand housing supply/demand) 3. Investigating how to be more ‘development ready’ to support the market to provide housing we need. 	<ol style="list-style-type: none"> 1. Continued ‘conduit’ role but will increase due to increased new industry and business interest in the region. 2. “Development Ready” Regulatory Review project will be finished mid Nov 2024 and next steps to be discussed with Councils.
2	Council Support & Alignment	<ol style="list-style-type: none"> 1. Range of support, expertise and services provided for individual Councils e.g. data for District Plan reviews; new Council Housing Planning; individual subdivision support; connection to Spatial Planning. 2. Be a connector for councils to wider market, central Govt and industry. 3. Continually looking for efficiencies across all Councils and with a regional lens. 	<ol style="list-style-type: none"> 1. Continued varied support to be provided for each Council as resource permits. 2. New ‘Regional Housing Group’ will be serviced by Great South. 3. <u>Increased focus on ensuring alignment of localised spatial planning with housing approach.</u>

Next 12 months from 1 July 2025...

	Area of Focus	Current Year Deliverables (2024-25)	Proposed Next Year Deliverables (2025-26)
3	Government Advocacy, Liaison and Funding	<ol style="list-style-type: none"> 1. Fed into review of Kāinga Ora, hosted Ministers, Govt officials and provided briefings on Housing. 2. Key relationships established with staff at MHUD, KO, MSD, TPK and Public Service Commissioners. 3. Prepared submissions on Granny Flat MRU proposal etc. 4. Supporting local runanga alongside Te Puni Kōkiri to look at papakāinga/ 	<ol style="list-style-type: none"> 1. Same as last year with Govt briefings. Suspect increased focus as Govt Housing position becomes more defined. 2. More focus on PPPs – linking private sector and Govt e.g. Aquaculture workforce housing requirements? 3. Identify new funding opportunities and support Govt to develop and align where possible with Southland's needs e.g Regional Infrastructure Fund (RIF). 4. Advocate for rules which enable Southland to meet our housing challenges e.g. Housing Growth Fund. Continued preparation of submissions & use of relationships to ensure Southland's voice is heard.

Next 12 months from 1 July 2025...

	Area of Focus	Current Year Deliverables (2024-25)	Proposed Next Year Deliverables (2025-26)
4	Housing Data	<p>DISH has been developed and will provide consistent datasets & reporting from multiple data sources</p> <ul style="list-style-type: none"> - allows the region to monitor changes in housing demand and supply. 	<ol style="list-style-type: none"> 1. Ongoing maintenance of DISH (sourcing datasets i.e. QV); technical oversight & governance; analytical expertise etc. 2. Regular development and distribution of Housing Reports e.g. quarterly. 3. Development of the “Annual Housing Situation Report” in line with regional economic scenario modelling etc. <u>Will feed into council spatial planning.</u>
5	Regional Strategic Planning & Implementation	<p>Draft Regional Action Plan has been developed and GS will have delivered 5 projects.</p> <ul style="list-style-type: none"> - Regional Housing Charter developed - Regional Housing Group established - “Development Ready” Regulatory Review - Regional Housing Website/Portal - Housing Data Dashboard & Reporting 	<ol style="list-style-type: none"> 1. Consideration of the recommendations from the 5 projects already completed. 2. Consideration of new projects to be delivered e.g. focus on elderly housing; heating options, short term accommodation. 3. GS to coordinate, be secretariat and be a part of the “Regional Housing Group”. 4. GS to maintain and look after the Regional Housing Website/Portal.



Aquaculture

Great South's Role with Aquaculture (current year)

1

Industry and Iwi Liaison & Support

- Being a conduit and connector with existing and new industry, key stakeholders, businesses and iwi.
- Partnership with Te Rūnaka o Awarua, Ngāi Tahu.
- Regional Infrastructure Fund.
- Fast Track Consenting process.
- Individual contracts with private sector.

2

Government Liaison, Advocacy & Funding



Ministry for Primary Industries
Manatū Ahu Matua



3

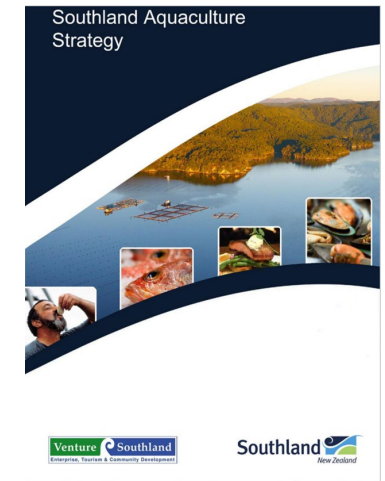
Council Support & Alignment

Support for individual councils to look at:

- Localized spatial planning (connection with Stewart Island & Bluff).
- Infrastructure & water considerations and possible PPPs.
- ES and Coastal Plan review and alignment.

4

Regional Strategic Planning & Modelling



- Strategy to be refreshed in line with national strategies & iwi planning.
- Export, housing, workforce, supply chain considerations.


Scenario Planning and Contribution to Wider Economy

Scenario 3: Aquaculture


This scenario is based around the rapid development of the aquaculture sector known as 'farming in water', which is the aquatic equivalent of agriculture or farming.

Key assumptions:

- Assumes timely consenting approvals of key aquaculture projects and in particular open ocean farming of salmon.
- That the sector will be supported with increased processing facilities, inland smolt breeding and rearing, and increased shellfish, seaweed and whitebait production.
- This scenario assumes that some financial assistance will be given to support research and development, upgrades to infrastructure and training of the required workforce.
- This is modelled on the assumption that most of the smolt is bred out of the region.
- Aquaculture was modelled to reach \$1 billion in sales revenue by 2035 and then continue to grow to \$2.6 billion by 2054. Note that GDP is only a small proportion of the overall figure of sales as it removes all the inputs to the processes that are either generated by other industries or in other regions.

EMPLOYMENT  +2,940

POPULATION  +5,310

HOUSEHOLDS  +2,110

ANNUAL GDP  +\$190 M

The above figures relate to the 2054 projections

Key take outs:

- The major impact is within the Invercargill City Council area due to the location of the fishing industry in Motupōhue Bluff.
- The fishing industry accounts for 1,970 jobs and manufacturing (processing of seafood) accounts for another 970 jobs.
- The GDP impacts are similarly distributed with \$130 million to fishing and \$60 million to processing.

 **\$1 billion by 2035**

Currently aquaculture is worth \$670 million to the Aotearoa New Zealand economy and employs approximately 3000+ FTEs. Murihiku Southland currently farms 22% of Aotearoa New Zealand salmon and 3% of Aotearoa New Zealand mussels.

NZ Aquaculture Strategy 2019

Fast-track Approvals Bill, Regional Infrastructure Fund & Significant Policy Changes

Three aquaculture projects proposing to be fast tracked under the new Fast-track Approvals Bill

1. Sanford Ltd – Makarewa Hatchery (land-based recirculating water salmon hatchery on 24ha site)
2. Ngāi Tahu Seafood Resources Ltd – Hananui Aquaculture Project (2,500 ha marine finfish farming)
3. Impact Marine Ltd – Land based salmon farm (including processing facility)

Desire is for the Regional Infrastructure Fund to line up with projects in the Fast-track Approvals Bill process.

Significant review of regulation and policy associated with Aquaculture at the moment – local and central Govt

1. ES Coastal Plan review
2. National Environmental Standards for Marine Aquaculture (goal for it to be more flexible and enable innovation and adaptation)
3. Marine Farming extension permits (have happened in a relatively rapid process)
4. New Zealand Coastal Policy Statement (goal for it to be more enabling of aquaculture and other outcomes relating to other industries)



DISH – Data & insights

Haere mai

Welcome to DISH

The Data and Insights Southland Hub is a 'one stop shop' for data and insights relating to Murihiku Southland, New Zealand's second largest and most southern region.

Home to 100,143 people, find out more about this spectacular place including its' unique [environment](#) and thriving [economy](#). DISH provides regular data on [housing](#), which will enable this region to achieve its aspirations as outlined in the [Beyond 2025 Regional Long-Term Plan](#).

Key statistics about Murihiku Southland:

- 12% of Aotearoa New Zealand's land mass
- 3,612 kms of coastline
- 58% of land is public conservation estate
- 5 of the 11 Great Walks are located in the region
- \$8.27 billion in GDP
- \$80,148 GDP per person which is the third highest in New Zealand after Wellington and Auckland

DISH is a work in progress and will have more dashboards added as they are developed. It has the most recent available data which varies across areas of focus.



Ōhanga

Economic Data Insights

The Murihiku Southland economy is a force to be reckoned with, pushing Auckland from the number one spot for Q1 of 2024 in the latest ASB Economic Scoreboard. GDP of \$8.27 billion is at an all-time high and the region has the third highest GDP per person at \$80,148 (after Wellington and Auckland).

The economy is robust, with a strong focus on its natural resources. Primarily driven by agriculture, forestry, and tourism, dairy farming is a key sector, supported by beef and sheep farming, which contributes significantly to both local and export markets. In fact, about 12% of all of New Zealand's pastoral exports come from this region reflecting the region's significant agriculture and manufactured contributions to New Zealand's economy.

Below are some key indicators and associated commentary, with more information on data sources available in the Technical Glossary and via links to other dashboards.

[Read Commentary](#) [Technical Glossary](#) [Key Links to other Dashboards](#)

Southland Regional GDP
\$8.27B (+6.3% ▲ YoY)

Southland GDP as % of NZ GDP
2.13% (-0.04% ▼ YoY)

GDP per Capita
\$80.15K Southland vs \$75.31K NZ (+6.4% ▲ % Sth v NZ)

Value of Exports (%) to NZ Economy
Tradeable, Pastoral, Primary (2018-2022)

Contribution to Southland Economy by Industry

Top 5 by GDP	Health	Manufacturing	Primary	Retail trade	Services	Total
GDP (\$M)	\$419	\$1,176	\$1,840	\$323	\$2,089	\$7,781
GDP YoY % Increase	18.4%	30.7%	17.4%	11.4%	11.7%	15.7%
# Businesses	453	483	4,398	660	6,288	14,541
# Employed	5,550	8,400	7,975	5,200	11,514	52,329

Employed by Industry

- Services: 11.5K
- Manufacturing: 8.4K
- Primary: 8.0K
- Health: 5.6K
- Retail trade: 5.2K
- Construction: 3.7K

Employment, Participation and NEET Rates (2020-2024)

- NEET Rate (2024): 15.3% (+5.7% ▲)
- Unemployment Rate (2024): 3.7% (+0.4% ▲)
- Participation Rate (2024): 70.7% (-1.5% ▼)

- Will be formally launched on 12 November 2024.
- Aims to create a 'one stop shop' for Southland data and a conduit to other dashboards.
- Reflects partnerships with a number of suppliers of data i.e. SDC and number of people travelling to Stewart Island paying the Levy.
- Great South is accessing some key data sets on behalf of the region e.g. QV (house, rent prices).
- Provides data on areas of focus which are a priority for the region and from Beyond 2025 i.e. Housing, Tourism, Environment and the Economy.

Economy Commentary

+ Gross Domestic Product (GDP)

- Exports

- Southland's key physical exports are dairy products, sheep & beef products, and aluminum as well as fish/aquaculture, forestry, and other manufactured goods.
- Southland also produces non-physical exports through tourism (international tourists, predominately visiting Fiordland and dispersing throughout Southland), data, space, and education (international students attending SIT).
- Current statistics do not accurately represent the value of Southland's export sector, as exports are typically attributed to a region based on the last New Zealand exporting port that handles the goods. As most of Southland's exports are not exported directly from Southland's ports, Great South have undertaken analysis as reflected in the above graph which provides a more accurate picture of the export sector. By using the region's production measures (e.g. milk solids, livestock numbers), Great South have estimated that:
 - Southland exports make up **8.1%** of New Zealand's Tradeable exports.
 - Southland produces an estimated **11.7%** of New Zealand's Pastoral exports (land-based farming products like meat, dairy), reflecting Southland's significant agriculture and manufactured contributions to New Zealand's exports.
 - Southland exports make up **8%** of New Zealand's Primary exports.

Please see the [Technical Glossary](#) for more information including definitions of Tradeable, Pastoral and Primary exports.

+ Key Industries

+ Number of Businesses

+ Number of Employees

+ Unemployment Rates

+ Participation and NEET Rates

- The MVP of DISH provides key insights and trends from the graphs.
- Next step involves the development of a number of reports using the analytical functions of DISH e.g. Housing, Tourism, Economy etc.
- To be developed in partnership with key users (i.e. Local and Central Govt) and a schedule established (e.g quarterly).

Key Links to other Dashboards





The Government's [Regional Data Portal](#) has been developed by the Social Investment Agency in partnership with Regional Public Service Leaders. It brings together a range of social sector and economic data from Government agencies which users can drill down to a local level and even by age and ethnicity. For the Economy, data is provided on Kiwisaver and Employment.

Government Regional Data
Tool

Aotearoa Data Explorer
(Stats NZ)

Next Steps beyond MVP - New areas of focus; Geospatial data sets to support spatial planning and housing

- Partnering with ES regarding identification and agreement on required datasets e.g. who has them, how are they managed/maintained, shared and modelled.
- What are the data gaps required to support localised spatial planning and regional housing.

	Maintenance	<p>Action 1: Maintain and refresh data sets as per the Master Technical Notes document.</p> <p>Action 2: Maintain the integrity of the cloud-based processing system including all dashboards.</p> <p>Action 3: Maintain and update the Website.</p>
	Analytics and Reporting	<p>Action 4: Maximise the functionality and benefits of the analytic functions.</p> <p>Action 5: Schedule and deliver a range of reports to meet identified demand.</p>
	Enhancements	<p>Action 6: Enhance existing MVP dashboards.</p> <p>Action 7: Develop new dashboards and areas of focus on the website.</p> <p>Action 8: Investigate Geo-spatial data to support spatial planning.</p>
	Data Governance	<p>Action 9: Develop an Overarching Data Governance Policy & Procedures Framework</p> <p>Action 10: Investigate shared governance to ensure consistency.</p>



Sustainability & Spatial Planning

Steve Canny

Why is a Low Carbon Economy Important for Invercargill and Southland

- **70% of Southland's Economy is dedicated to exports** and Export supply chain
- **Over 80% of New Zealand's exports by value** are going to countries that have mandatory climate related disclosures**(Protecting NZ's Competitive Advantage Global Sustainability Reporting & Trade Trends April 2024)*
- **40% already have Carbon Border Adjustment Mechanisms** – EU, UK, US, Australia, Taiwan
- **Governmental and Customer Expectations and environmental factors are being reflected in Free Trade Agreements** and in other non-tariff interventions(chemical residues).
- **Southland Exporters and supply chains need to respond** to the Export Market change to maintain a competitive advantage and maintain and grow access into high-value markets.
- **This affects all export products** including meat, dairy products, food, ingredients, manufactured goods, and metals such as aluminum.

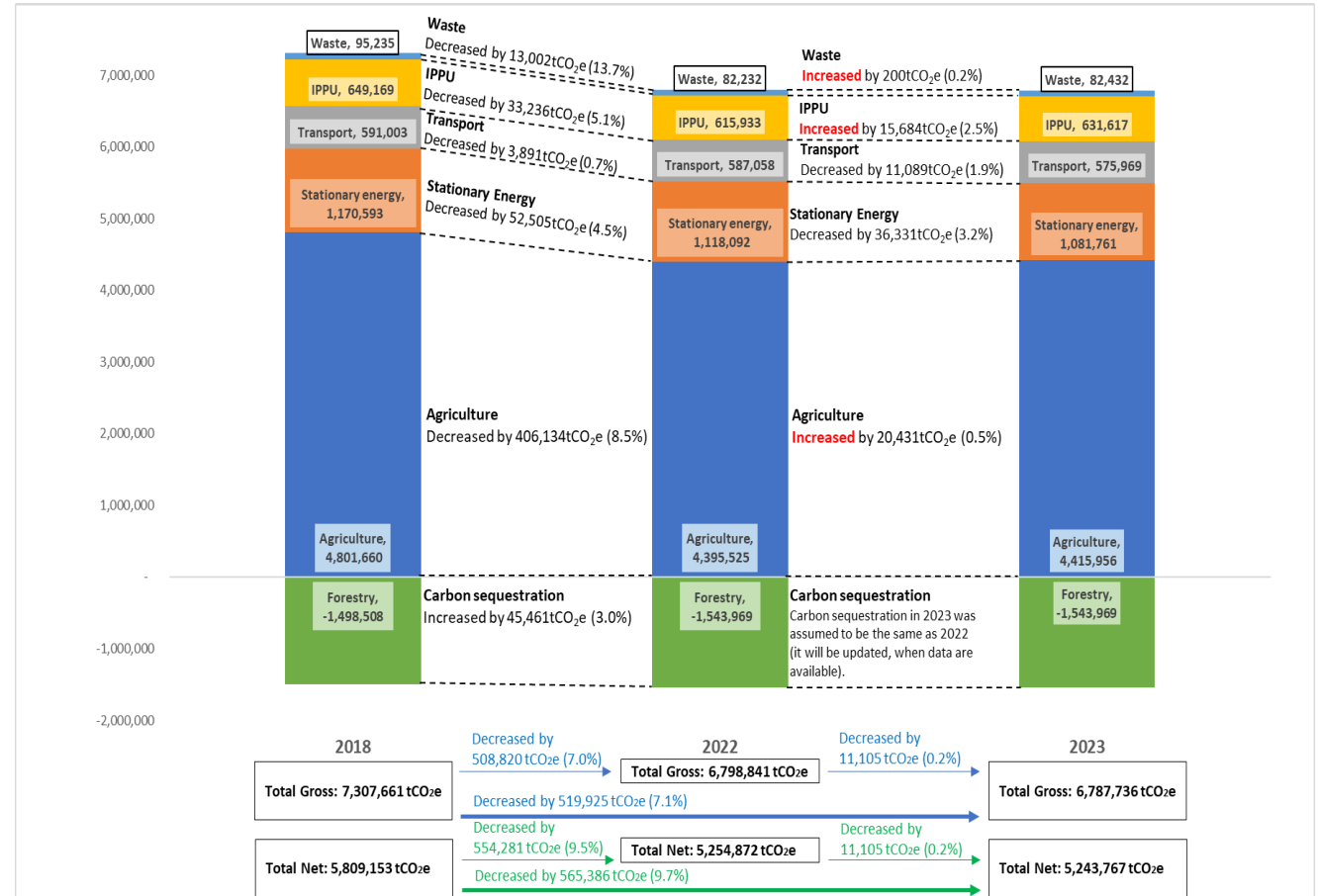
Net Zero Southland 2018 – 2023 (provisional)

- Between 2018 & 2023* Southland's Net Emissions reduced by 9.7%

(*Final figures from forestry Carbon Sequestration is awaiting harvest and planting data from MPI)

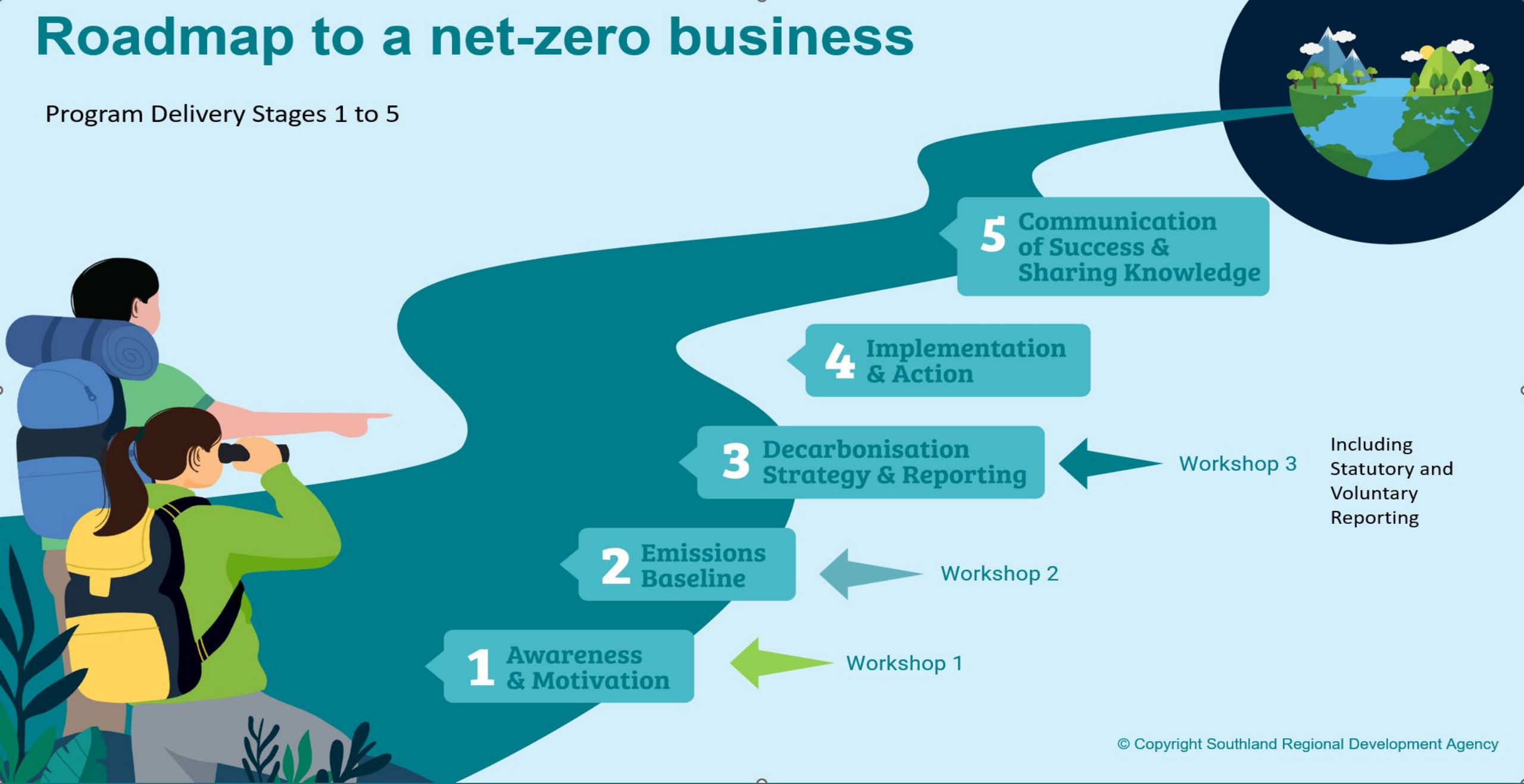
- Emissions reduction have occurred in the following activities: Waste, Industrial Processing, Transport, Stationary Energy, Agriculture (stock reduction but increased emissions factors for dairy cows).

Livestock	2018	2023	Total Change
Sheep	3,737,512	3,069,684	- 667,828 less
Dairy Cows	681,011	661,014	- 19,997 less
Beef Cattle	173,770	184,702	+ 10,932 inc'
Fertilizer	253,133	194,876	- 58,257 less



Roadmap to a net-zero business

Program Delivery Stages 1 to 5



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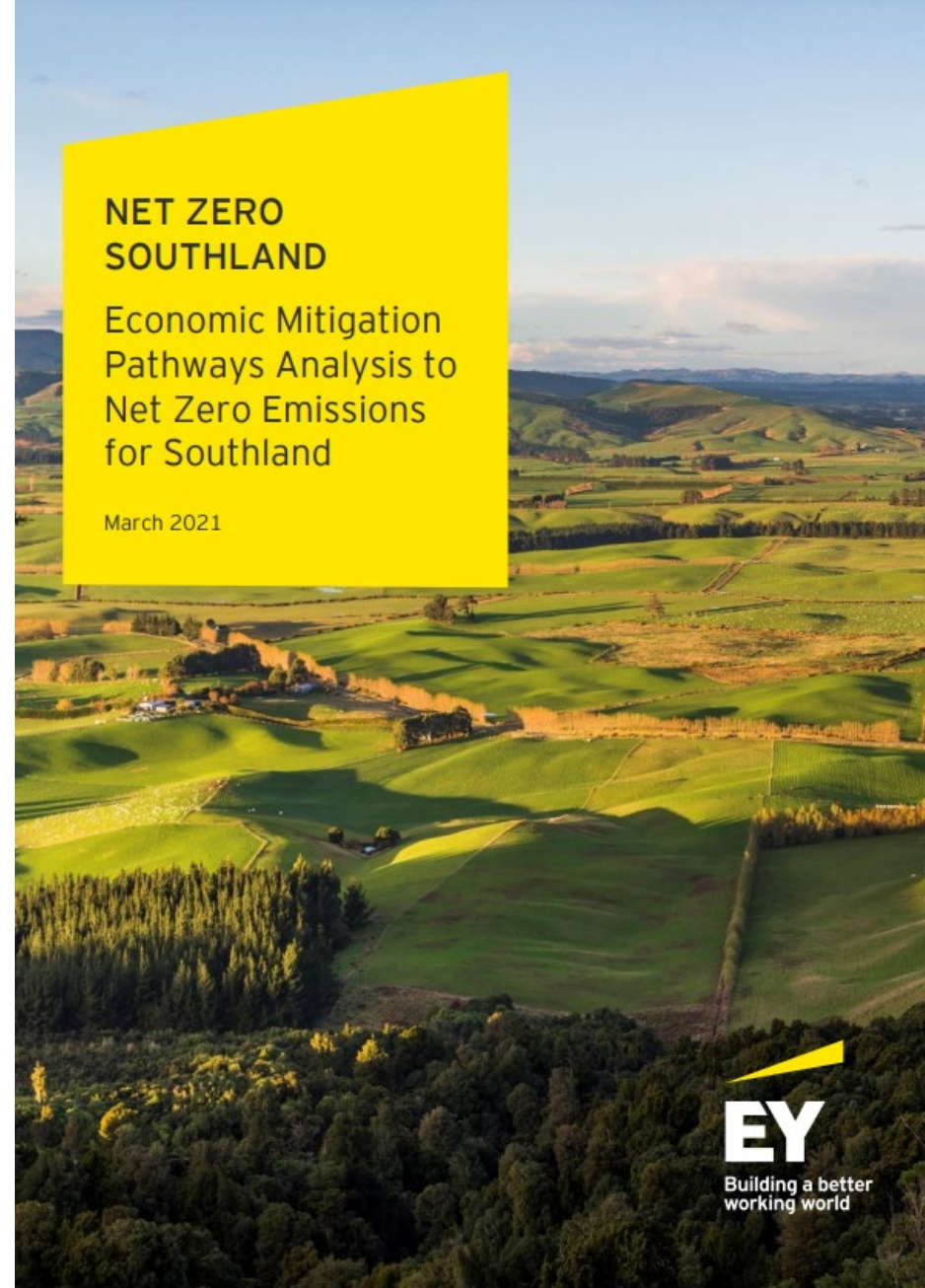
Net Zero Southland report 2025 Review

Funded under the Carbon Neutral Advantage project

Ernst & Young engaged by Great South (mid-2020)

Outcomes:

- Southland not on track to reach net zero by 2050
- Southland can achieve net zero by 2050 with a positive net financial outcome and avoiding social shock.
- Flexibility in the portfolio of options Southland can take.
- The pathway will require action across all sectors.



Our commitment to sustainability

**Great South is a carbon conscious organisation
(EKOS accredited)**

We aim to:

- Integrate sustainability consideration in all we do
- Reduce waste and water consumption
- To date has reduced its emissions by 31% reducing operating costs by \$60,000 p.a.
- Be a carbon neutral organisation by 2026



Invercargill Decarb Project 50 Conversions to date

Business	Location	Fuel		The number of boilers
		from	to	
1 Bowmont Meats	Invercargill	LPG	Woodchip	1
2 Donovan Primary School	Invercargill	Coal	Woodchip	1
3 Environment Southland	Invercargill	Coal	Woodchip	1
4 Invercargill City Council (Parks and Reserves)	Invercargill		Woodchip	1
5 Invercargill City Council (Splash Palace)	Invercargill	Coal	Woodchip	1
6 Makarewa School	Invercargill	Coal	Woodchip	1
7 McCallums	Invercargill		Woodpellets	2
8 New Rever School	Invercargill		Woodpellets	1
9 Ruru School	Invercargill	Coal	Woodchip	1
10 Tisbury School	Invercargill	Coal	Woodchip	1
11 Waihopai School	Invercargill	Coal	Woodchip	1
12 Southland Hospital	Invercargill	Coal	Pellets	2
13 Southern Institute of Technology	Invercargill	Coal	Electric	2
14 Invercargill Prison	Invercargill	Coal	Pellets	2
15 Aurora College	Invercargill	Coal	Woodchip	1
16 Bluff School	Bluff	Coal	Pellets	1
17 Fernworth Primary School	Invercargill	Coal	Pellets	1
18 Invercargill Middle School	Invercargill	Coal	Pellets	1
19 James Hargest College (Jnr & Snr)	Invercargill	Coal	Woodchip	2
20 Murihiku Young Parents' Learning Centre	Invercargill	Coal	Pellets	1
21 Newfield Park School	Invercargill	Coal	Pellets	1
22 Otago University (Invercargill Campus)	Invercargill	Coal	Pellets	1
23 Southland Boys' High School	Invercargill	Coal	Pellets	1
24 Southland Girls' High School	Invercargill	Coal	Pellets	2
25 Southland Girls' - Enwood House	Invercargill	Coal	Pellets	1
26 Te Wharekura o Arowhenua	Invercargill	Coal	Pellets	1
27 Waverley Park Primary School	Invercargill	Coal	Woodchip	1
28 Windsor North School	Invercargill	Coal	Pellets	1
29 Ascot Park hotel	Invercargill	Coal	Woodchip	2
30 Bainfield Park Residential Care	Invercargill	Coal	Pellets	1
31 Great South	Invercargill	Diesel	Heat pump	1
32 Habitat for Humanity	Invercargill	Diesel	Pellets	1
33 IBIS Hotel	Invercargill	Diesel	Electric	1
34 Mitre 10 MEGA	Invercargill	LPG	Heat pump	1
35 Railway Station	Invercargill	Coal	Pellets	1
36 Southland Adventist Christian School	Invercargill	Coal	Pellets	1
37 South Port	Bluff	Diesel	Heat pump	1
38 Alisco Ltd	Invercargill	Coal	Pellets	1
39 Downers Roding	Bluff	Diesel	Diesel+Electric	1
40 Open Country Dairy	Awarua	Coal	Electric+Heat p	1
41 Prime Range Meats	Invercargill	Coal	Coal	Energy efficiency and technology upgrades to reduce coal use by 50%
42 South Pacific Meats	Awarua	Coal	Biogas+Electric	1
43 Distinction Hotel (Ex Menzies Building)	Invercargill	Diesel	Heat pump	1



- The programs have delivered 50 boiler conversions, reducing carbon emissions, airborne particulates and accordingly delivering significant health benefits to residents.
- Reducing the risk of hospitalization & premature deaths from airborne particulates in ICC area alone, estimated by Stats NZ* as causing 124 premature deaths per annum

*Stats NZ cite the lower South Island had higher rates of premature deaths from human-made air pollution, with the highest rate in Invercargill City (219 premature deaths per 100,000 people, 30+ years).

Net Zero Southland – 56 Invercargill Businesses

Need help on your way?

We're here to guide businesses on their low emissions journey.



Decarbonisation Workshops

4 NES powerlines
Accelerate Physiotherapy
Active Southland
Am Subritzky
Ashlar Motel
Backcountry Cuisine
BDO Invercargill
Beauty Batch
Blue River Dairy
Centre for Social Impact
Chamber Music NZ
Chamber of Commerce Southland
Coin South
Community Trust South
Department of Internal Affairs
EEScience
Environment Southland
Fortuna Group
Green Yard Veges
Habitat for Humanity
Heritage South
Invercargill Airport
Invercargill City Council
Invercargill City Youth Council
Jubilee Budget Advisory Service LTD
Lewis Windows Ltd
Lighthouse Southland
McCullough Partners

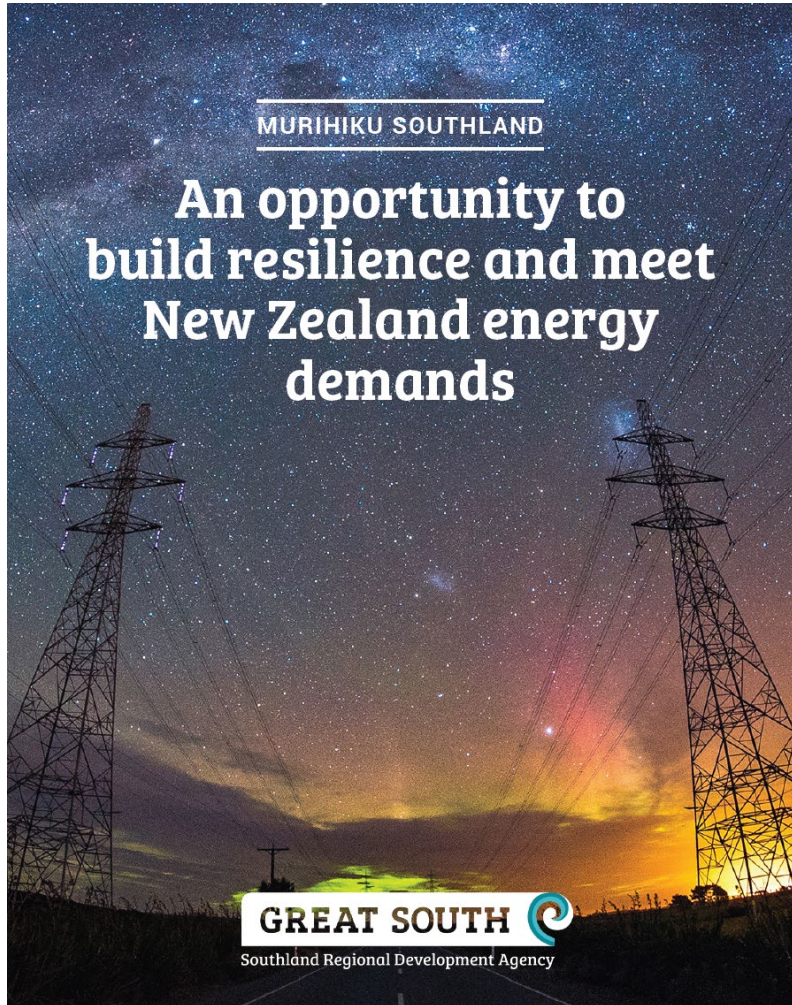
Murihiku Kai Collective
Nind electrical services
Picture Caskets
Pipe Band Nationals
Powernet
Presbyterian Support Southland
Prime Range Fresh
Redworks Studio
SCES Education
Southland District Council
Shark Experience Ltd
Southern Institute of Technology
South Alive - The Pantry
South Port NZ
Southern MG
Southern Steam Train Charitable Trust
Southland Help
Southland Labour Party
Sport Southland
Talent Development Southland CT
Te Kōhaka Reo O Murihiku
Thriving Southland
Thwaites Aluminium Ltd
Tribe
Vet South
Xcell Engineering
Youthline Southland
Yunca Group

MURIHIKU SOUTHLAND Sustainable Tourism Programme



Sustainable Tourism Workshops

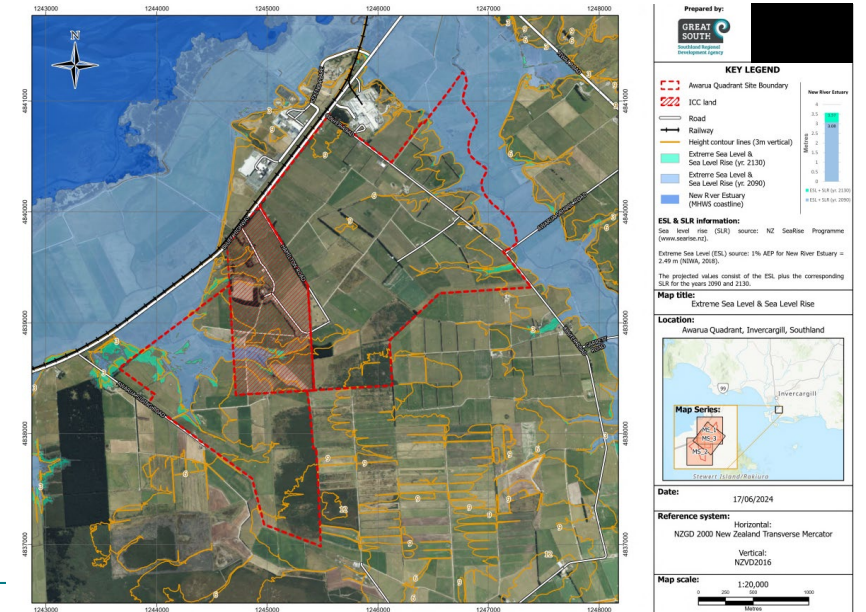
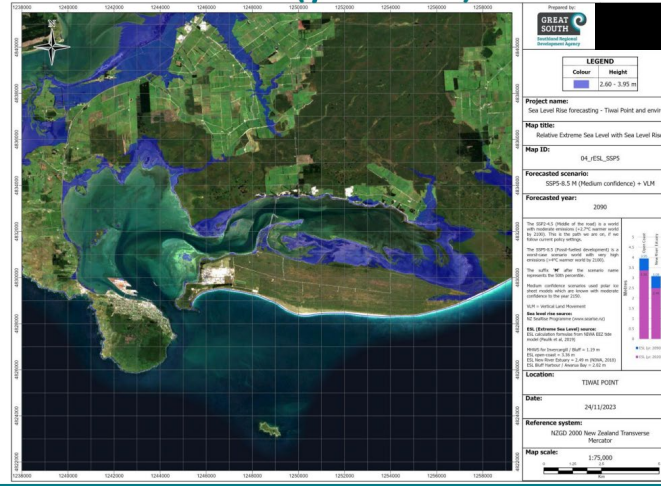
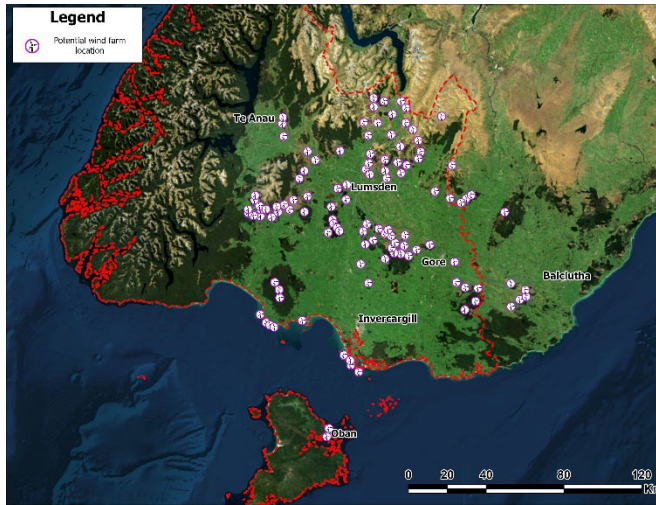
Energy Planning - Net Zero Southland



- **Energy Planning and the availability of renewable energy at an affordable price** is critical to industry decarbonization and infrastructure transmission planning.
- **Spatial plans** have been developed for - 112 potential wind sites in Southland, 10 Run of River hydro electric sites have been evaluated as has the solar potential
- **Biomass boiler fuel** availability has grown from 15,000 tons p.a in 2015 to 215,000 p.a. 2024 and is projected to grow to 550,000 by 2028.
- **Biogenic methane** will progressively be a substitute for LPG from 2027 onwards.
- **There is an expected demand 1,150 MW** of renewable electricity and there is **2,600 MW of wind energy** in the consent processes and further 200 MW being evaluated.
- **Streamlining consent processes** by incorporating energy into Spatial Plans is critical.
- **Public education**, energy efficiency and initiatives better insulation standards are a must.

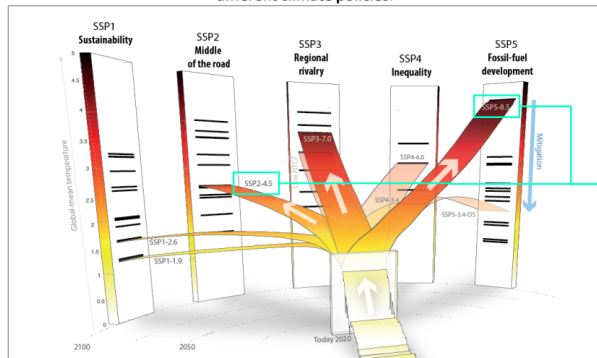
Spatial Planning

Relative SSP5-8.5: ESL (yr. 2090)



Forecasted SSP-RCP scenarios

The SSP change scenarios describe the possible greenhouse gas emissions from different climate policies.



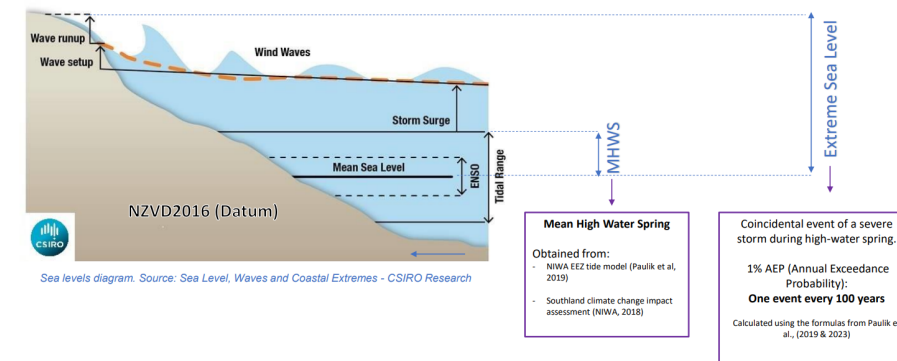
The labels enumerate five scenarios, which are defined by the socio-economic challenges for mitigation and adaptation (Source: Meinshausen et al., 2020).

SSP2-4.5 climate change scenario.
Correlation between the Shared Socioeconomic Pathways SSP2 (Middle of the road) and the Representative Concentration Pathway RCP 4.5. This is the path we are on, if we follow current policy settings. It is a world with moderate emissions with an expected increase in the global temperature of 2.7°C by 2100.

SSP5-8.5 climate change scenario.
Correlation between the Shared Socioeconomic Pathways SSP5 (fossil-fuelled development) and the Representative Concentration Pathway RCP 8.5. This is a world with very high emissions with an expected increase in the global temperature of >4°C by 2100.

- LIDAR,
- Sea level Rise
- Geotechnical/soil
- Bathymetry
- Gamma Ray Spectrometry
- Energy Planning
- Land use
- Coastal Planning

Forecasted sea-levels



Thank you

