

Te Wiki o Te Taiao



Timberlands Environment Week 2024 | Page 1

CLIMATE CHANGE

There are many threads to sustainability, but without a doubt the major challenges of our generation are biodiversity loss and climate change, which are interrelated. These are also significant matters for a forest and land estate of our scale.

Our exposure to climate change can be considered in three categories:

- emissions (primarily from the fuel we burn) *This issue*
- sequestration (the carbon our trees absorb)
- resilience (climate change is occurring and will continue to do so) *and it's effects such as weather events*



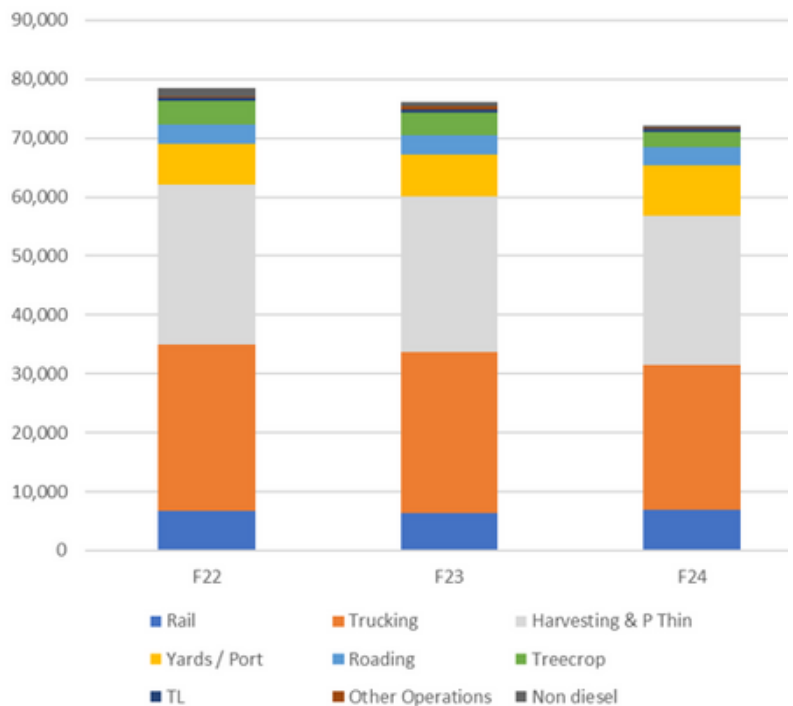
Emissions

We recently completed our carbon emissions inventory for the F24 financial year, marking our third time doing so. This data highlights fuel use and consequent emissions across our operations, including shipping for export logs.

We also track emissions from electricity usage, fertiliser application, and are beginning the more challenging task of measuring emissions associated with the production and delivery of the products we use (such as fertiliser, chemicals, and machinery), as well as emissions from waste and travel (including commuting, flights, and taxis). However, these emissions are minimal compared to those generated by fuel use in internal combustion engines (ICE), as shown in the accompanying table and graph.

	F22	F23	F24
Operations Fuel (000 000 litres of diesel and petrol)	28.6	28.0	26.7
Operations Emissions (000 Tonnes CO2eq)	78.4	76.2	72.1
Shipping Emissions (000 Tonnes CO2eq)	42.7	45.4	45.3
Total Emissions (000 Tonnes CO2eq)	121.2	121.6	117.4
Total Emissions per Tonne harvested (Tonnes CO2/T)	.0167	.0169	.0171

EMISSIONS BY BUSINESS AREA TONNES OF CO2 EQUIVALENT



The reduction of emissions is primarily due to the reduced amount of harvesting undertaken, and a very small amount can be attributed to our current initiatives, which include changes in our fleet, a hybrid excavator and 400kWhr charger at KPP.

Te Wiki o Te Taiao



Timberlands Environment Week 2024 | Page 2

CLIMATE CHANGE

Current Timberlands Initiatives

In the Timberlands fleet we now have three hybrid Highlanders and five hybrid Hilux vehicles, with eight more arriving inside this financial year. Learn more about the Toyota HiLux SR5 Cruiser Hybrid Review here:



Toyota HiLux SR5 Cruiser Hybrid Review

The updated Toyota HiLux features a mild hybrid system to improve fuel efficiency, moving towards electrification in dual-cab utes. It maintains its rugged performance and towing capacity, making it a practical choice for drivers.

Driving Insights / Sep 24

Hybrid Excavator

The hybrid excavator at Southern Cross Harvesting has now been operating for over a year with calculated fuel (and emissions) savings of 12% compared to operating the standard unmodified version.

400kWhr charger at KPP

We are investing in a 400kWhr charger at KPP that will service a fully electric loader (XCMG XC975EV) and logging truck (Scania Regional 3) which RFH have purchased. The charger is expected to be installed and operating early next year.

There are many solutions in the making and while we need to ensure our progress is real - as well as symbolic, there is little of consequence at present. Over the medium term much of our effort will be on efficiency and piloting innovative technologies.



Hybrid Excavator and Vehicle



Working Bee | Field Trip

On Friday 18 October at 10.45am, The 5 Mile Eco-Sanctuary is 15 minutes away in Whakarewarewa Forest. [Click here to register](#)