

Creating a Sustainable Transport Future Today



TR Group's commitment to creating a sustainable transport future, and in particular our role in redefining the future of the transport industry means we are constantly looking at ways we can help the sector reduce its impact on the environment.

We're excited to share a number of updates on what we have coming into the fleet in 2025. With two Hydrogen Dual Fuel Tractor Units and 20 Hydrogen Fuel Cell Electric Trucks (FCEV) on order, 2025 is shaping up to be one of the most exciting years in our history!

The hydrogen fuel cell trucks have been purchased with support and co-funding by EECA, making them the most affordable FCEVs available. Details are below.

Hydrogen Fuel Cell Truck Update

Our last update for the supply of Fuel Cell Electric Trucks was that Hyzon, the OEM involved in supplying the trucks, had been put into administration and were not going to fulfill our order of twenty trucks.

We are pleased to let you know that we have new purchase arrangements in place to supply the trucks, and it is an excellent outcome.

Both EECA and the Government are fully supportive of our plans. We are very excited with what we now have to offer.

The twenty trucks will be made up of:

- **4 x Hyundai 6x2 rigid trucks**
- **16 x Global Bus Ventures 6x4 tractor units, built on CF85 DAF chassis.**



The Hyundai Trucks

We have already one Hyundai FCEV working in NZ with NZ Post. This truck has now done over 120,000kms and has performed exceptionally well. It is manufactured and backed by a global OEM. There are also 50 of these trucks working in Switzerland, which combined have done over 10,000,000kms. A well proven vehicle.

As rigid trucks, we can fit any body type on the vehicle to suit your application. We may also be able to fit existing trailers behind these trucks (if available) to help keep the overall cost of the combination down.



Hyundai Specifications

- 6x2 rigid configuration
- 42 tonne GCM
- 2 x Hyundai 90kW fuel cells
- 72kwh lithium batteries
- 32KG of fuel max load
- 350kW drive motor
- Allison 4500R series 6 speed gearbox
- Electric Retarder
- Body to suit application, and trailer if required



Hyundai Delivery Timetable

The first truck is already in New Zealand in body build. The other three will land by the end of January.

All four trucks can be delivered to customers during the second quarter of 2025 (subject to body build).



Hyundai Pricing

Below is some indicative pricing complete with a curtainside body, with an option to include an existing 4 axle curtainside pull trailer. Note: can come with any body type to suit.

Set-Up	Annual Usage	60 Months	84 Months
Truck Only	80 - 120,000kms	\$9,009 + 15c/km	\$7,425 + 15c/km
Complete with Trailer	80 - 120,000kms	\$11,066 + 24c/km	\$9,151 + 24c/km

NB: prices exclude GST, tyres, fuel, RUCs, insurance, and any company livery.

Prices include maintenance and repairs, and are subject to final confirmation of body specifications.

The Global Bus Ventures Trucks

Global Bus Ventures are Christchurch based, and as their name will suggest, have their roots in bus building, including electric and fuel cell electric buses.

They have been building battery electric buses for many years and have built one Hydrogen Fuel Cell bus that currently operates in Auckland, and they built the Hydrogen Fuel Cell Chase Boats for the recent Team New Zealand Americas Cup defence. They have completed the first Hydrogen Fuel Cell Truck, number one for this programme, and it is in testing.



Adding a New Zealand based manufacturer to this programme really adds to the New Zealand story with this project, in that we are providing local jobs and developing local expertise and experience.

GBV are able to capitalise on progress made by Hyzon in developing these trucks for New Zealand, plus adding their own expertise and IP.



GBV Delivery Timetable

The first truck is already built and soon to be compiled, with testing to follow.

Availability for a customer will be early 2025. The remaining trucks will have deliveries commencing second half 2025.



GBV Specifications

- Built on CF DAF chassis. One space cab is available, and 10 standard sleeper cabs
- 6x4 tractor unit configuration
- 58 tonne GCM
- 2 x Toyota 85kw fuel cells with 96kW peak output
- 124kwh lithium batteries
- 11 hexagon type 4 hydrogen tanks with 52KG max fuel load
- Dana 360kw drive motor
- 6 speed automatic transmission
- Electric retarder

These specifications are equivalent to those originally proposed via the Hyzon build. Some specific components may vary to the above on some vehicles.



GBV Pricing

Below is some pricing as fully rigged tractor units.

Set-Up	Annual Usage	60 Months	84 Months
Fully Rigged Tractor Units	80-200,000kms	\$8,674 + 15c/km	\$7,390 + 15c/km

NB: prices exclude GST, tyres, fuel, RUCs, insurance, any extra fitments such as hydraulics, and any company livery. Prices include maintenance and repairs. Max life 1M kms

For both GBV and Hyundai trucks, hydrogen fuel will be charged to you each month with your lease invoice on an as used basis at the rate of \$16.50 per kg.



Fuel Network

As a reminder, below are the locations of the four fuel stations. All except the Tauriko station are fully operational already.

- **Te Rapa - 143 Tasman Road, Te Rapa, Burbush 3288**
- **Wiri - 2 Bolderwood Place, Wiri, Auckland 2104**
- **Palmerston North - 39 Settlers Line, Milson, Palmerston North 4414**
- **Tauriko - Kaweroa Drive, Tauriko**



Summary

As we will have the first two trucks on the road very shortly, we plan to make these available for viewing early in the new year.

The four Hyundai trucks obviously have a different configuration to the original plans but they will suit some lighter applications.

We are excited with our new plans, and as you can read above things are quite progressed with two trucks almost completed already.



Dual Fuel Trucks Available

As part of TR's commitment to building a sustainable transport future today, we have commenced the construction of two dual fuel trucks with **CH2NGE Fuel Technologies** (a division of H.W Richardson Group):

FH600 Volvo 8x4 Tractor
CF85 DAF 6x4 Tractor

Trucks fitted with the dual-fuel system will reduce up to 40% of carbon emissions in dual-fuel mode without compromising existing operations, routes, distances, or payloads.

These will be available early 2025.



What is Dual Fuel Technology?

Dual fuel trucks are a standard diesel combustion truck that run on a mixture of diesel and hydrogen. Hydrogen is carried in bottles stacked behind the truck cab. It is injected during the engine intake stroke and mixed to be uniform and homogenous during the compression stroke. Diesel is used as the pilot fuel, and the diesel auto-ignites and co-combusts with the hydrogen, forcing the piston down during the power stroke. The control system for the truck ensures the energy requirement to the engine remains the same whether fuel is coming from hydrogen and diesel, or just diesel.



What are the advantages?

As mentioned above, the dual-fuel technology can reduce carbon emissions by up to 40%. A significant benefit of the system though, is that the trucks can run on 100% diesel if there is no hydrogen available. This is a benefit whilst the hydrogen fuel infrastructure continues to develop.

While these are not zero emission, we believe we should not let perfect get in the way of better. This technology is a more cost effective and practical step in the path to creating a more sustainable transport environment, until we can get to perfect. The system produces a significant reduction in carbon emissions.



Pricing

Indicative long-term pricing on the trucks converted by CH2NGE Fuel Technologies is below (fully maintained excluding tyres).

Set-Up	Annual Usage	72 Months
6x4 DAF Tractor	Up to 150,000kms	\$8086 + 16c/km
8x4 FH Volvo Tractor	Up to 150,000kms	\$8750 + 16c/km

Price includes subscription to mytransport platform for trip and carbon reporting and usage analytics, telematics data and ECU licence.





Battery Electric Vehicles - Rentals Available

Further to our Hydrogen options we also have two 11-tonne GVM 4x2 SEA-powered Curtainside Trucks suitable for the round-town pickup and delivery market, ready and available to work.

These units are a standard 5 tonner Curtainside spec with a taillift, and have proven to be hugely

successful for customers wanting to trial zero emission options without having to make the long-term commitment of ownership or lease.

The SEAs have been on the road for almost three years and are fantastic performers, easily achieving 150 -200km range on a single charge. Sample rates are below:

Term	KMs	Flat Rate*
12 months	Up to 30,000	\$3,875
24 months	Up to 30,000	\$3,650
36 months	Up to 30,000	\$3,350

* Rate is monthly and excludes GST



Don't miss out! Interest in all these vehicles is extremely high, so please get in touch with your TR Group representative if you'd like to know more.