



Tackling the CO2 challenge – Many ways

\$3 BILLION
ANNUAL REVENUE

2,700+
employees across NZ and Australia

48 COMPANIES

New Zealand's largest
**PRIVATELY
OWNED**
transport business



6 SECTORS



H.W.RICHARDSON

FAMILY OF BRANDS

CONCRETE



CONTRACTING



ENVIRONMENTAL



PETROLEUM



QUARRYING



TRANSPORT



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TOURISM



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HWR HYDROGEN

Helping Heavy Transport Transition to Hydrogen

Allied Petroleum
never run out

135 FUEL TANKERS

delivering more than **1.6 billion litres** of fuel annually



Tankers travel more than
12 MILLION kilometres each year

**100%
NZ**

owned and operated

SPECIALISE
in civil, transport,
agriculture and
mining industries

LARGEST
tier 2 fuel distributor
(behind BP, Z, Mobil and Caltex)

120 FUEL STOPS
nationwide from Northland to Stewart Island



250 STAFF

In business
for more than **30 YEARS**

NZ's authorised
distributor for
Mobil™



DRIVING CHANGE. DRIVING HYDROGEN.

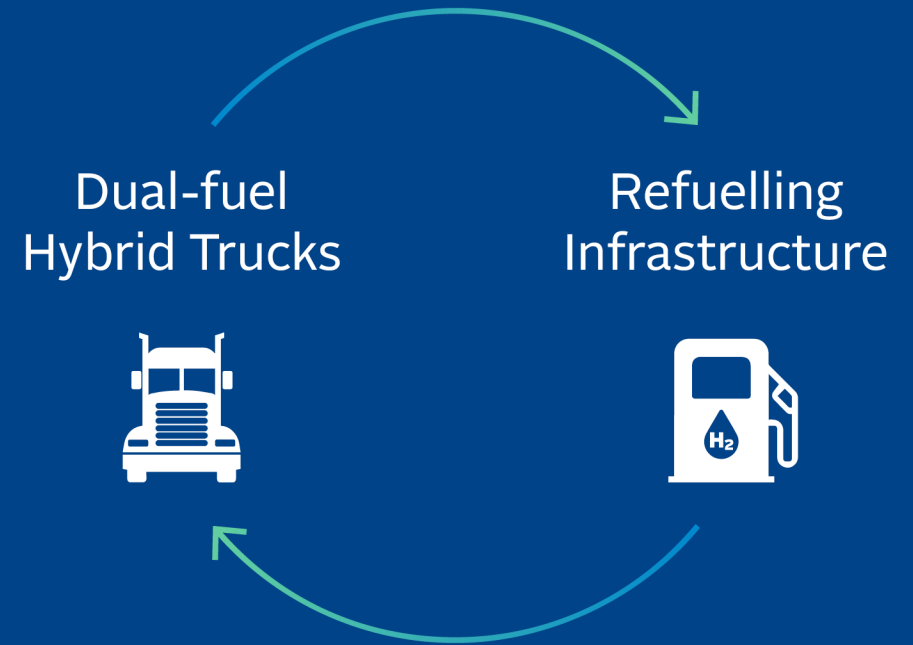
Helping heavy transport transition to hydrogen

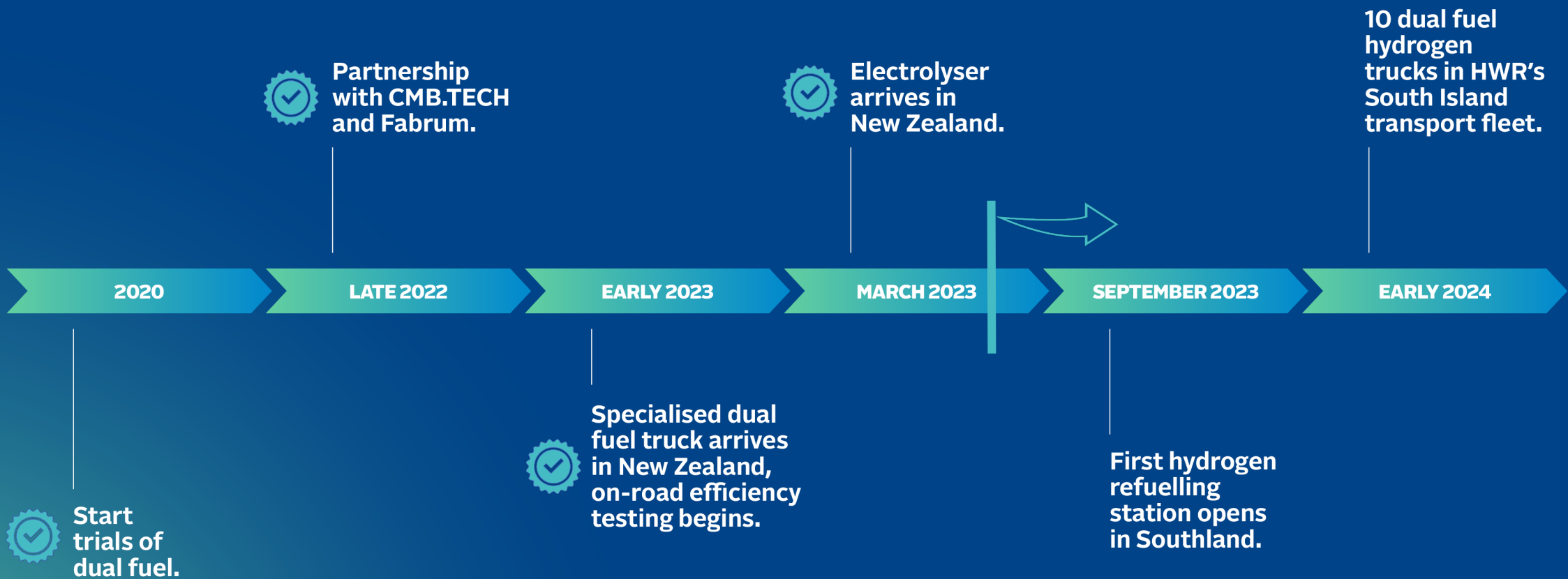


HWR'S HYDROGEN PLAN.

To date we've committed over **\$15 million** exploring New Zealand owned and produced hydrogen and trialling **dual-fuel** technology.

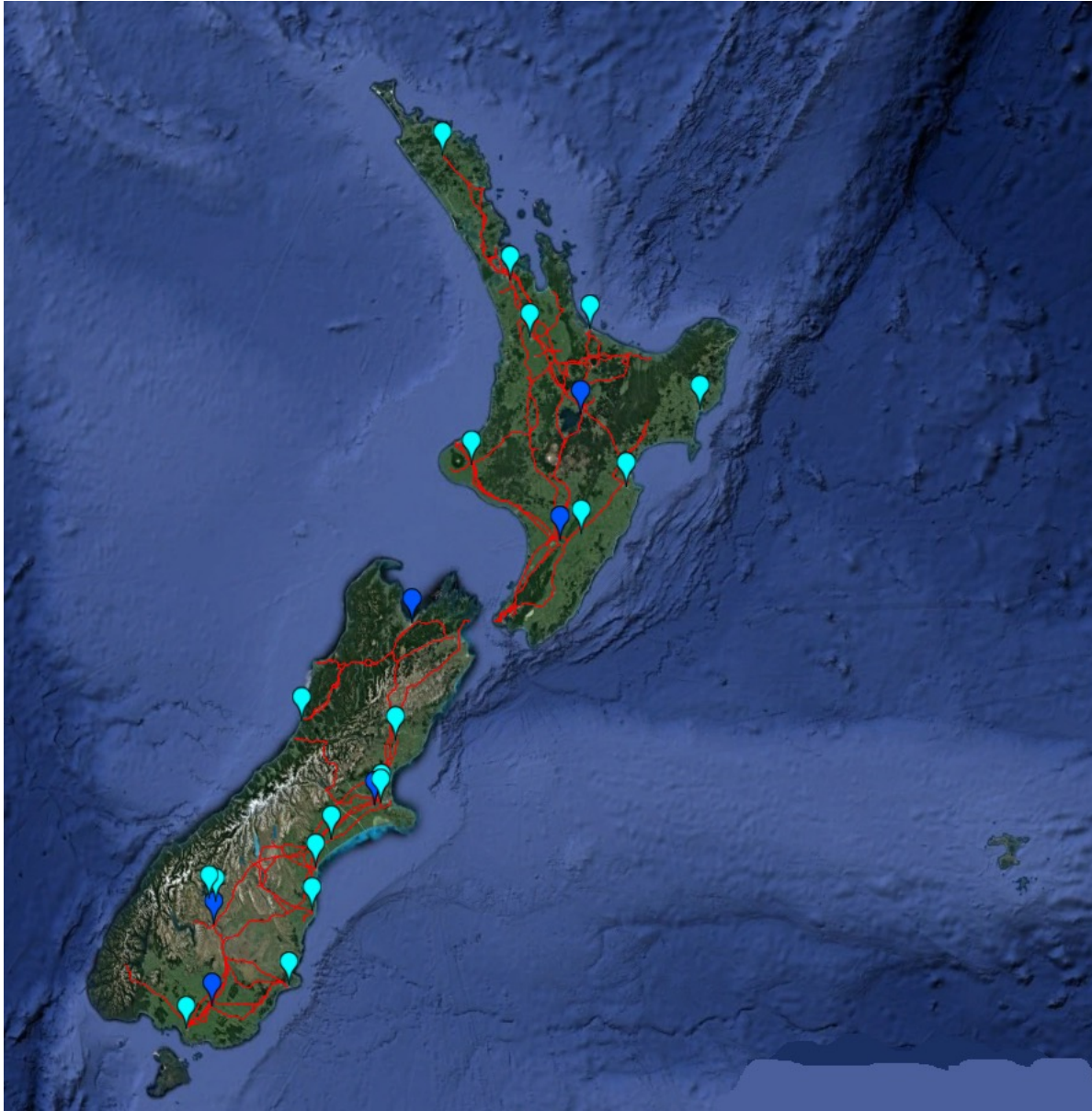
Addressing both supply and demand.







GORE HYDROGEN REFUELLING STATION



HWR HYDROGEN





TRIAL DUAL FUEL TRUCK



DAF XF Euro 6



HPMV Milk Tanker – multi option with pins



25 kg hydrogen onboard



5 x 350 bar tanks – 5kg each



Operational in March 2023

CARBON REDUCTION



Potential 1160 dual-fuel trucks by 2030

91,200t Co2 emissions removed pa

~~17,700 x~~



70t's
CO2 avoided
per truck
per year = 15
cars

366,000t
CO2
removed
by end of
2030



HWR HYDROGEN

The logo for 'mytransport' is centered on a black background. The word 'my' is in a teal color, while 'transport' is in white. The letter 'o' in 'port' is stylized with a teal outline and a white interior. The background features faint, curved, light gray lines that suggest a road or a path curving into the distance.

mytransport

**A transport planning
system,
built by transports**



HOW IT WORKS.

**Reducing
Kms travelled
by 30%
>50t pa per truck**



ORDERING TRANSPORT

Develop a semi-autonomous dispatch tool called Dispatch Assist that helps transport operators remove unnecessary road kilometers



LOGISTICS AND ROUTE PLANNING

Develop and operate a corporate dispatch platform as a service, utilizing our technology for the betterment of the transport industry



CARTAGE AND FREIGHT

Transform communications in-cab to become a sustainable and safe tool for operations



DELIVERY AND REPORTING

Connect trucks operating on hydrogen technology to customers through detailed carbon reporting and carbon offset programs

DRIVER – TABLET VIEW

FROST In-Cab

go.mytransport.co.nz/incab.app/#Jobs

Incognito

mytransport

WELFARE CHECK

ADD DELAY

Jolene Ferguson
TEST1 MyTransport Test ...

120 OSTRICHES, 20 ALPACAS

Job Date: 24/01/2023

Pickup: MICKY TESTING - INGLEWOOD 09:00

Delivery: TESTING HQ 21:15

Special instructions: None

ENROUTE TO PICKUP

232 ALPACAS, 22 OSTRICHES

Job Date: 24/01/2023

Pickup: MICKY TESTING - INGLEWOOD 09:00

Delivery: TESTING HQ 21:19

Special instructions: None

ACCEPT JOB

123 ALPACAS, 123 OSTRICHES

Job Date: 24/01/2023

Pickup: MICKY TESTING - INGLEWOOD 11:00

Delivery: TESTING HQ 21:25

Special instructions: None

ENROUTE TO PICKUP

Haast

Mount Aspiring National Park

Wanaka

Queenstown

Te Anau

Manapouri

Te Waipounamu / South Island

Gore

Balclutha

Kaka Point

Owaka

Bluff

Invercargill

Oban

OPEN IN GOOGLE MAPS

PICKUP

DELIVERY

MULTI

Google Keyboard shortcuts Map data ©2023 Terms of Use

Allied Concrete
ecrete™



HOW IT WORKS.

Up to 60%
reduction in
Carbon



PIONEERING SUSTAINABILITY

2014 Allied Concrete made the conscious decision to start measuring CO₂ emissions and became the first organisation in Australasia to produce an EPD (Environment Product Declaration)



REDUCING OUR CARBON FOOTPRINT

Allied Concrete's ecrete range will use supplementary cementitious materials (SCM's) as a partial replacement for cement. Replacing a certain portion of cement is one of the most effective and real methods to reducing the environmental impact of concrete.



UP TO 60% REDUCTION IN CARBON

Range of low carbon concrete mixes which can reduce your carbon footprint by up to 60%, whilst maintaining the same quality and strength as normal concrete.



WHAT DOES IT MEAN?

Ecrete house slab

Removes the equivalent of
1.2 cars annual emissions



Current

A conventional home concrete floor of 180m² needs about 35m³ of concrete. The embodied carbon in this slab is approx 10,850kg of carbon



Future

The same 180m² floor with an ecrete 60 mix of 35m³ has 4,340kg of carbon.
A reduction of 6510kg per slab



What does that look like

A ford ranger emits 214g of carbon per km travelled
If that same vehicle travels 25,000km pa it will emit 5,350kg (5.35t) per annum



Every slab makes a big difference

Every slab made with ecrete 60 is the equivalent of 1.2 ford rangers being removed from the roads.

QUESTIONS?