

New Zealand



IPWEA

INSTITUTE OF PUBLIC WORKS
ENGINEERING AUSTRALASIA

ROAD INFRASTRUCTURE
MANAGEMENT FORUM

Our Carbon Equation

Partnering for a sustainable transport supply chain

Ian Porter, Fuso New Zealand



RIMS
Rooding Infrastructure Management Support

in association with

IDS 
Infrastructure
Decision Support

Who is Fuso New Zealand

Part of the Daimler Family - The Best of Europe, North America and Japan

DAIMLER TRUCKS

Daimler Truck AG and Mitsubishi Fuso decided to transform their entire Japanese vehicle portfolio to battery electric and hydrogen powered drive trains by 2039

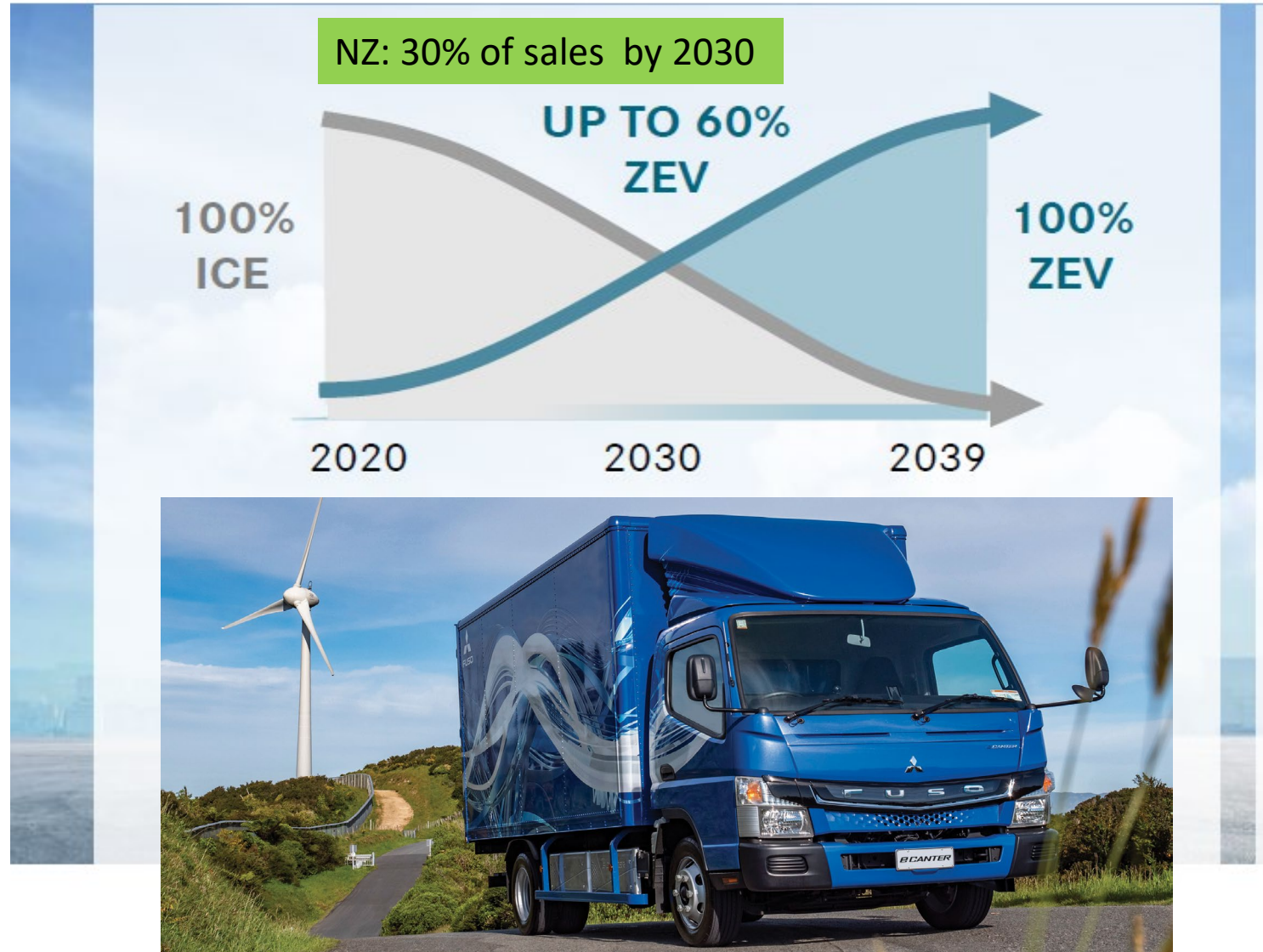


Our Carbon Equation

Committed to offering the strongest ZEV portfolio across all key truck segments

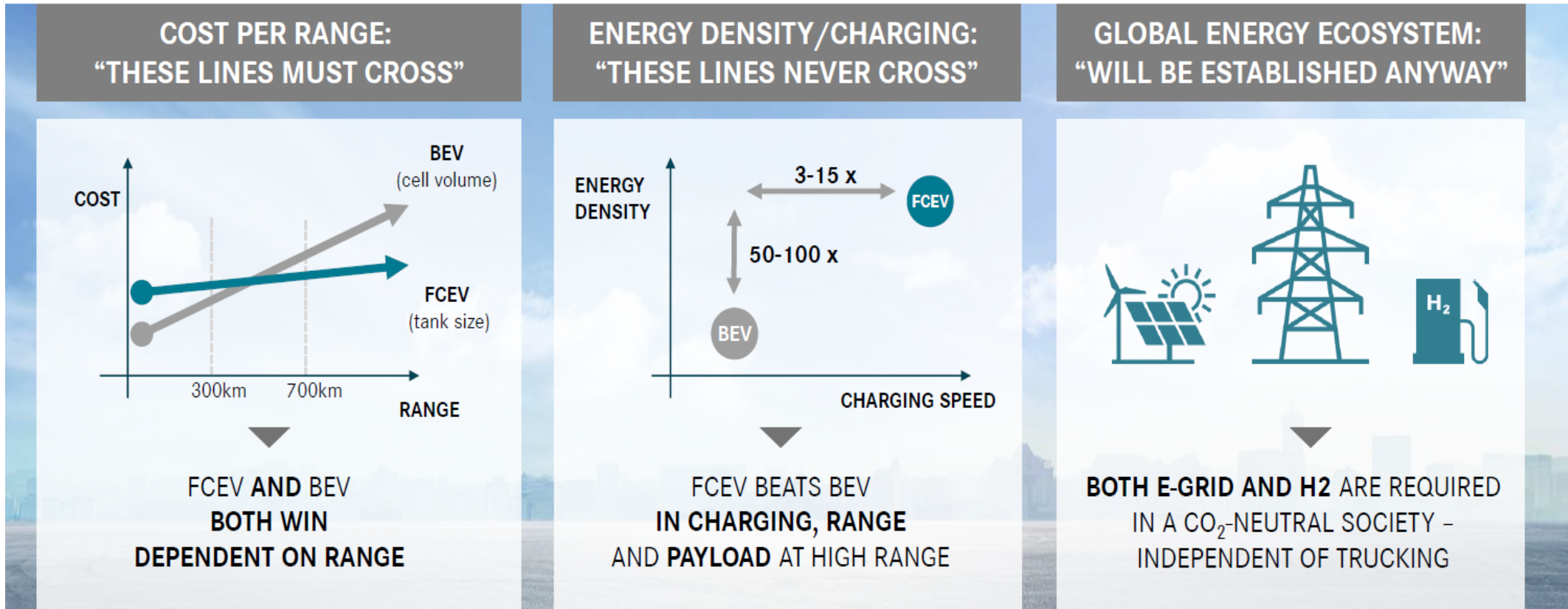


The Transition to ZEV

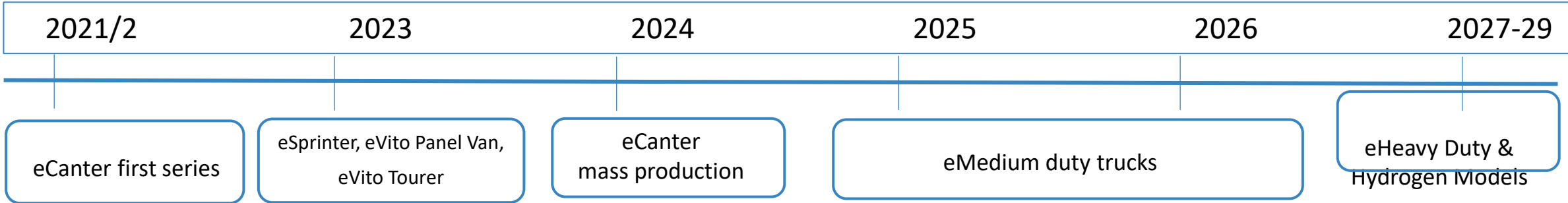


ZEV TECHNOLOGY: BOTH BEV AND HYDROGEN WILL BE NEEDED

Three key factors drive our dual strategy



Daimler Trucks Road to ZEV



JULY 2022	2025	2030	2039
eCanter first series 34 on the road or in build	R & D stops on Internal Combustible Engines	30% of all new sales of medium to Heavy trucks in NZ will be zero emissions	Daimler NO ICE Trucks 100% ZEV

Our Carbon Equation



ZERO
EMISSIONS



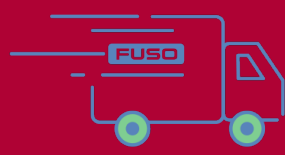
SAFER
THAN EVER



INNOVATING
FOR CHANGE



ECONOMIC
PAYBACK



**DELIVERING
SUSTAINABILITY
TOGETHER**



- eCanter e8
- 7.5T GVW Payload 2.5 -3t
- Range 100 - 150km
- Charge overnight \$10
- Fast Charge 45mins

Our Carbon Equation

Auckland City Centre Zero Emission Trial



Auckland Zero Emission Trail

Our Carbon Equation

Christchurch Infrastructure & Shopping District Project **RIMS**

Roading Infrastructure Management Support



Photo Credit: Christchurch City Council

Our Carbon Equation

Delivered by our Sustainability Partners

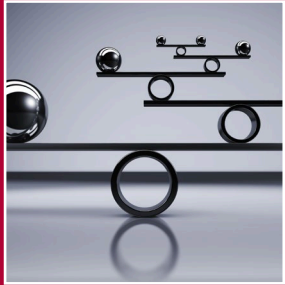


DELIVERING
SUSTAINABILITY
TOGETHER



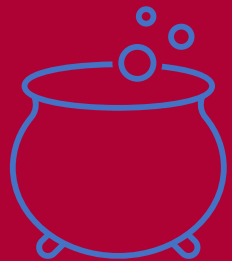
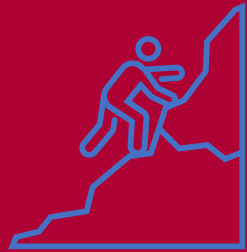
EROAD





120 years in
the making

Change is
inevitable



Pressure is
here

COP26 United Nations Global Climate Summit

Target = Net-zero carbon emissions by 2050.

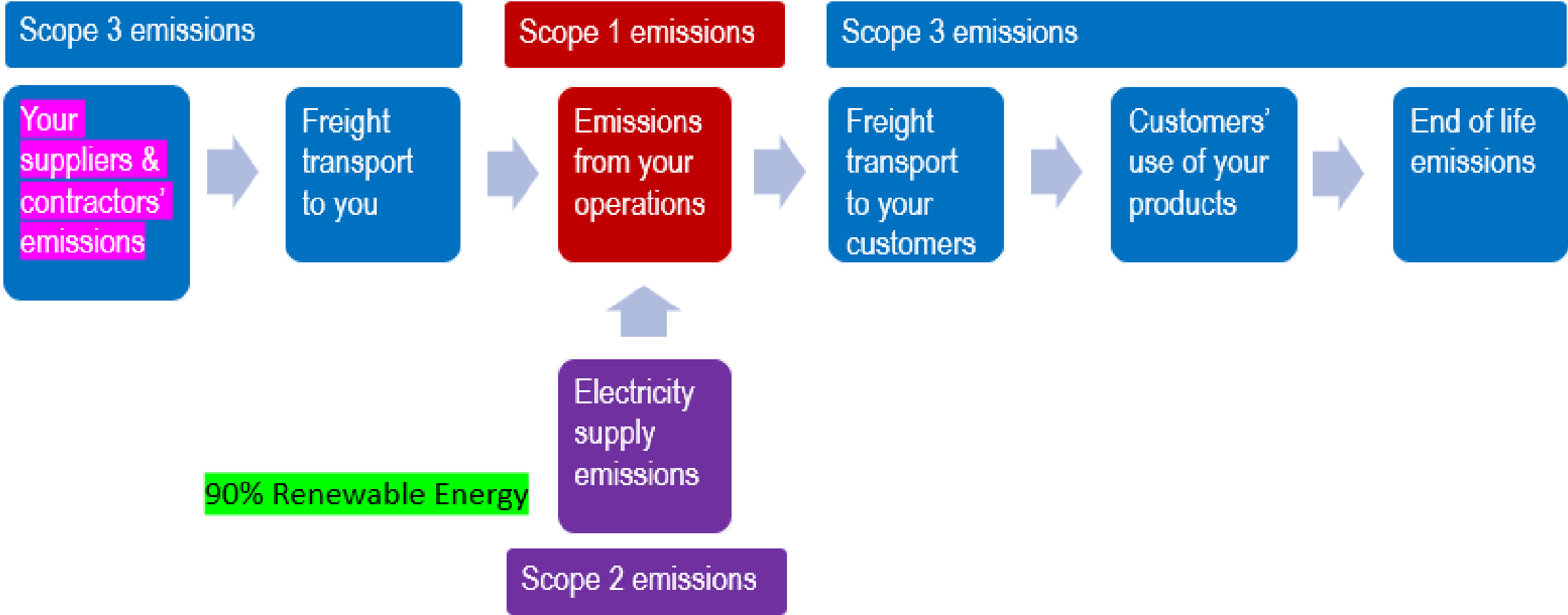
- 100% zero-emission new truck and bus sales by 2040
- Interim goal of 30% zero-emission vehicle sales by 2030



**DELIVERING
SUSTAINABILITY
TOGETHER**

Our Carbon Equation

Emission Reduction



Scope one EMISSIONS

Be Ready for technology

Look for opportunities to move your low hanging fleet

Find a customer base that is willing and interested in supporting you

100km runs, engaged and willing staff, it's a win



INNOVATING FOR CHANGE

Scope Three EMISSIONS

Look at enabling a change of truck in a fixed term contract

Are our RFP's weighted in the right direction

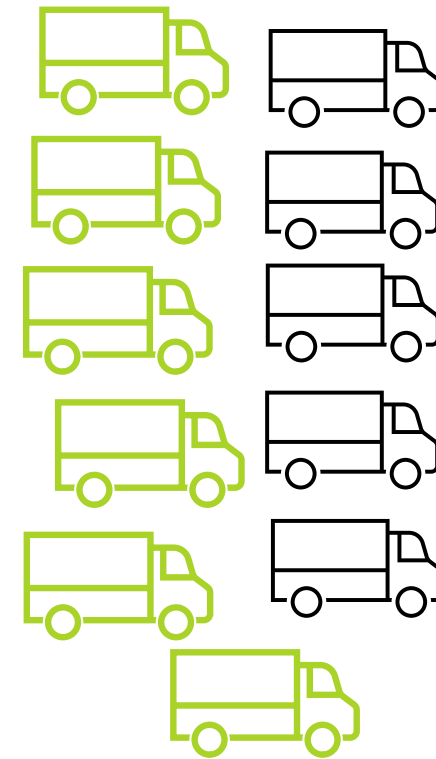
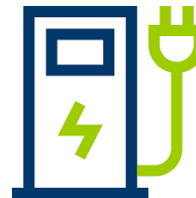
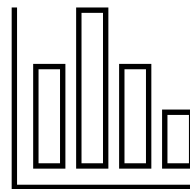
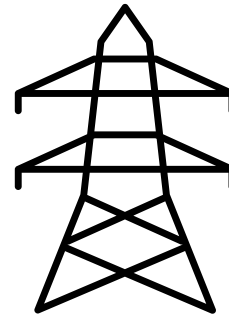
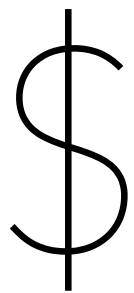
Pay more for services

Extend contracts

Anticipated EV program – little consideration of change required



Findings Actual reality of Fleet decarbonisation program, many changes required, many companies and staff involved, many moving pieces for successful change



Our Carbon Equation

Government Action Required to Increase Uptake ZEV

- Central Government
 - ZEV incentives : eg Clean Truck Rebate
 - Extend RUC exemption
 - VDAM (Vehicle Mass & Dimensions)
- Local Government
 - Tenders to include a ZEV requirement
 - Longer contracts to allow payback of more expensive ZEV
 - Review existing contracts to encourage ZEV to be introduced



Delivering Sustainability



THANK YOU



Social



Environmental



Economic



Our Carbon Equation