

19 November 2021

XCIENT hydrogen truck project update

Yesterday Hyundai New Zealand unloaded the nation's first hydrogen-powered truck, the XCIENT FCEV (Fuel Cell Electric Vehicle) at the Port of Auckland.

This truck is road-ready, and with a reliable hydrogen supply on tap through Ports of Auckland, it was able to be driven to our Mt Wellington headquarters yesterday. Where we're holding three viewing sessions next Friday (with strict COVID-19 protocols in place).

Please find attached photos from its arrival.

This is the first of five trucks which we will see on the nation's roads next year running freight across the country in a real world demonstration within commercial fleets. New Zealand is just the second market outside Korea to commence a multiple truck program. The XCIENT Fuel Cell trucks in Switzerland are in commercial operation. Their fleet has now exceeded more than 2 million kilometres of regular commercial service.

The XCIENT Fuel Cell truck has a manufacturer gross vehicle weight (GVW) of 28 tonnes and a combined gross combination weight of 42 tonnes. It will operate lower than this here due to our New Zealand road weight limitations, however it illustrates the genuine heavy duty nature of this truck.

Hyundai New Zealand, a NZ-owned company, has secured the trucks from Hyundai Motor Company, with the help of funding from ECCA, to put them into a working demonstration program. The aim is to speed up adoption by helping industry, government and the public grow in confidence to use hydrogen powered trucks.

The trucks will be introduced into an on-road (in-service) demonstration program with specialists in heavy vehicle transport and road transport logistics. Those partners are still to be confirmed.

They will be fueled by our own hydrogen refueller until the first group of hydrogen refueling stations are available, which are well underway.

The XCIENT is powered by a 350kw electric motor with 2237Nm of torque. Driving energy is provided by a 180kW hydrogen Fuel Cell system with dual 90kW Fuel Cell stacks combined with a 72kWh battery. Seven tanks make a combined storage capacity of about 32.09kg of hydrogen. The range is about 400km – the driving distance between Auckland and Palmerston North.

The arrival is an exciting milestone - New Zealand is now at the forefront of international efforts to shift heavy vehicle transport to zero emission formats. Each XCIENT Fuel Cell Vehicle on our road in place of a diesel truck will save *50 tonnes of CO₂ per year from being emitted into our environment

*based on 80,000kms per annum

[INSERT PHOTOS]