Reduction by over 16,000 kgCO2e expected through fleet technology upgrade

The Challenge

Alectra seeks to reduce their corporate GHG emissions and while waiting for electric vehicle technology to meet their specific business needs, they are testing alternative technology.
Their goal is to continually research and test ways to meet their GHG reduction targets.

The Solution

- In January 2022 Alectra began piloting dynaCERT's HydraGen™ system on their diesel vehicles. This onboard system only requires distilled water. The patented technology creates hydrogen and oxygen on-demand through a unique electrolysis process and supplies these gases through the air intake to enhance combustion, which has shown to lower carbon emissions and improve fuel efficiency.

On average, each vehicle reduced their diesel consumption by 230 litres

- The results from this 6-month pilot are outstanding. With 13 vehicles reporting data, the system saved over 8,000 kgCO2e. On average, each vehicle reduced their diesel consumption by 230 litres. Alectra expects to reduce emissions by 16,000 kgCO2e through this fleet technology.

Measurable Outcomes

	Description
Challenge	Reduction of GHGs from Fleet
Solution	dynaCERT's HydraGen™ system
Fleet details	13 vehicles
Length of pilot	6 months
Reduced diesel use/vehicle	230 litres
Estimated fuel savings/vehicle	$390
GHG savings	8,000 kgCO2e (6 month period)

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