

# Session 1:

Fleet Decarbonisation & ZEV

Gareth McMahon, Director of Service, Transportation, Monaghan Co Council

## HVO – A Case Study, Monaghan Co Council

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RSTG

## Monaghan's HVO Journey

In 2022 a Cross-Border Consortium was Established to Investigate Alternative Fuel Options for LA Fleets. Fehily Timoney were Commissioned to Conduct the Study. The Output was an Alternative Fuel Strategy & Roadmap to Net-Zero



An Roinn Iompair  
Department of Transport



RSTG ANNUAL CONFERENCE 2025  
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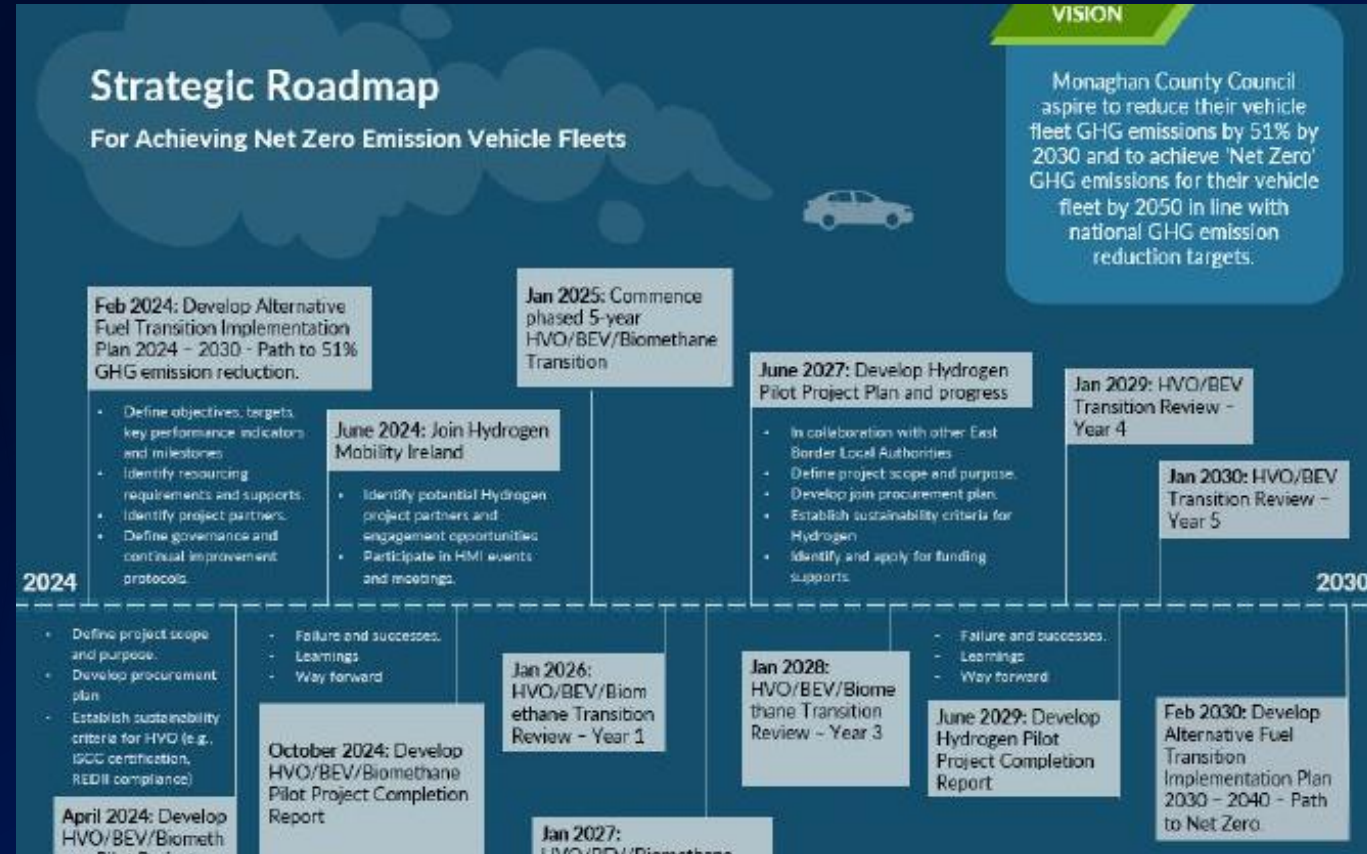
## Strategy Findings:

### Short-Term Options Considered:

- Hydrotreated Vegetable Oil (HVO)
- Biodiesel, Bioethanol & Bio Gases
- Battery Electric Vehicle (BEV)

### Long Term Option Proposed:

- Green Hydrogen



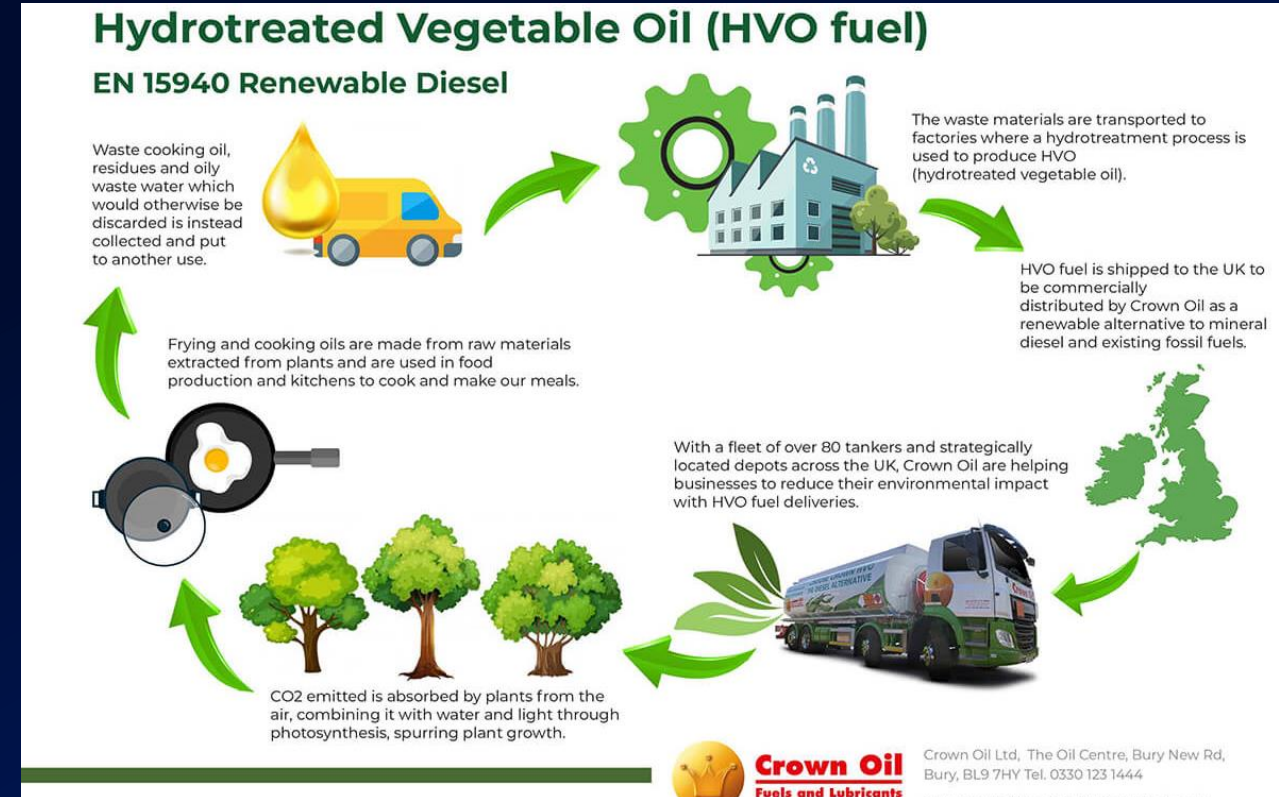


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## Why HVO?

Sustainably produced HVO is considered Carbon Neutral by the SEAI -

“The net emission of CO<sub>2</sub> from the combustion of biogenic carbon in sustainable biomass fuel (incl. solid biomass, biofuel, bioliquid and biogas) is considered to be zero, as it is assumed that the biomass itself absorbs an equal amount of CO<sub>2</sub> during growth as is emitted during combustion.



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## What are the Risks?

Feedstock Sustainability – Especially post 2030

Greenwashing and Traceability

Biomass as the Source

Compatibility & Performance

Lock-in Effect

Cost

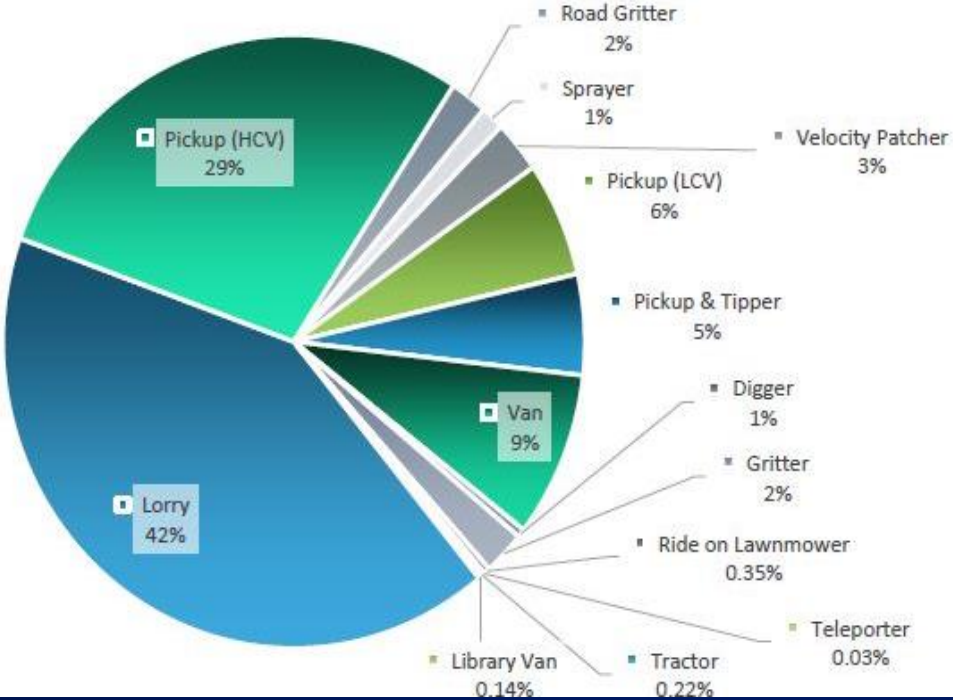


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## Monaghan's Fleet

- 48 Diesel Vehicles in MCC Fleet
- 5 EV Vans – purchased in 2024
- 12 diesel vehicles currently on HVO
- 11 vehicles to be switched to HVO in 2026
- 16 on-hire Diesel Engines will convert to HVO in future contracts

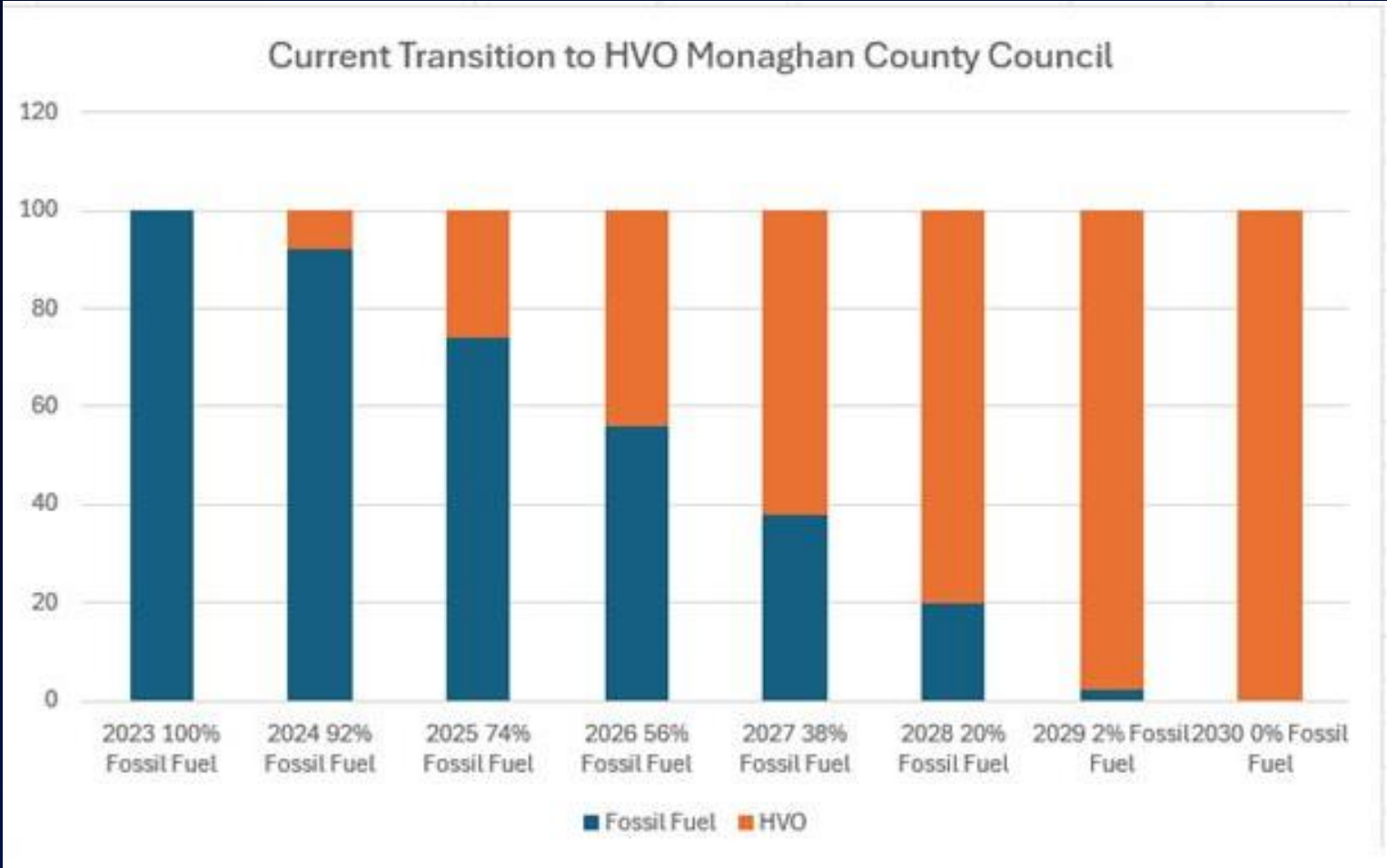
MCC - GHG Emissions in 2022 from Each Vehicle Type



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## HVO Path to Carbon Targets

Based on current fleet replacement plans and conversion to HVO, Monaghan’s fleet will achieve the 2050 target of becoming carbon-neutral by 2030.





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## In Conclusion

HVO is available and viable now however there is a risk that as demand grows supply will not be able to keep pace and other industries – such as aviation – may pay more and further reduce availability and push up costs.

Fleet managers should act now to take advantage of the carbon savings but not lose sight that this is very much a transitional fuel source.



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# THANK YOU

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Questions must include name  
and associated Local Authority  
to be considered by the panel.**

