

Wayne OPW ClearView AvaLAN Bulloch

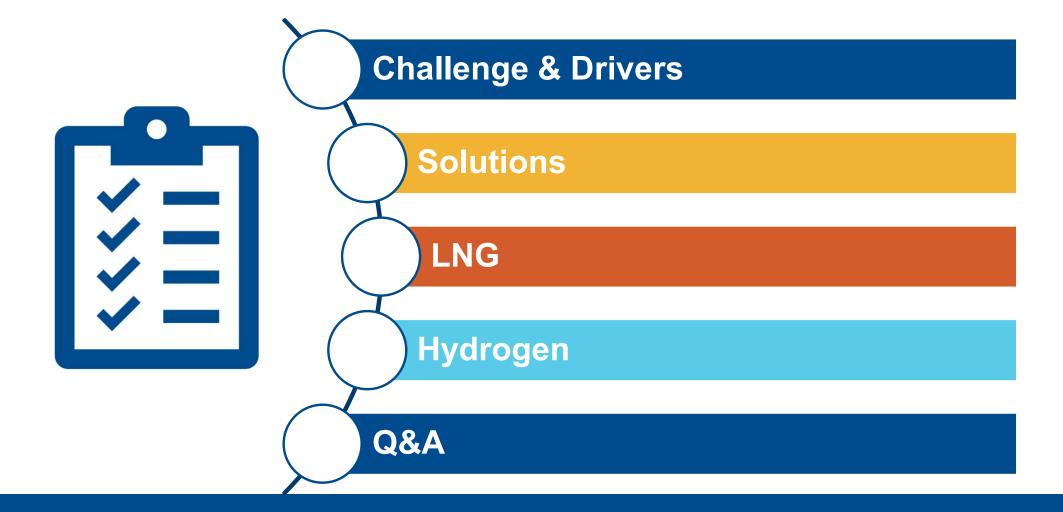


ProGauge fairbanks













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We are a leading global provider of advanced customer-focused technologies, services and solutions in the fuel and convenience retail industries.



Site Efficiency

Dispensers (conventional + CE) & Payment

Consumer Experience Connectivity

Retail Systems & Pricing

Fleet **Solutions**













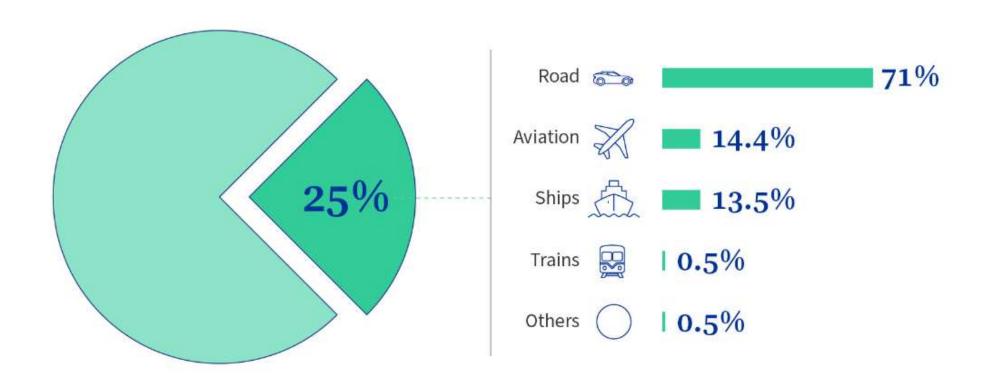






GHG emissions in the EU

Transport is responsible for almost 25% of greenhouse gas (GHG) emissions in the EU

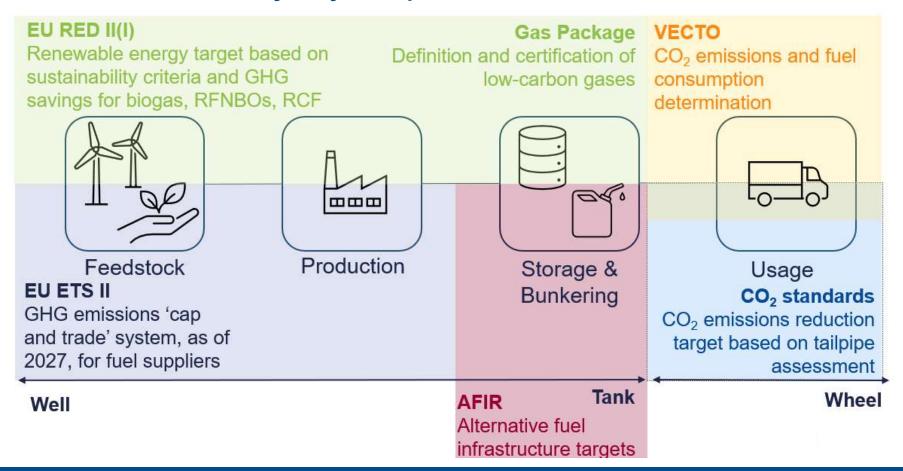


Source: consillium.europe.eu



Regulatory drivers for the fuel switch

How does EU law affect heavy duty transport?

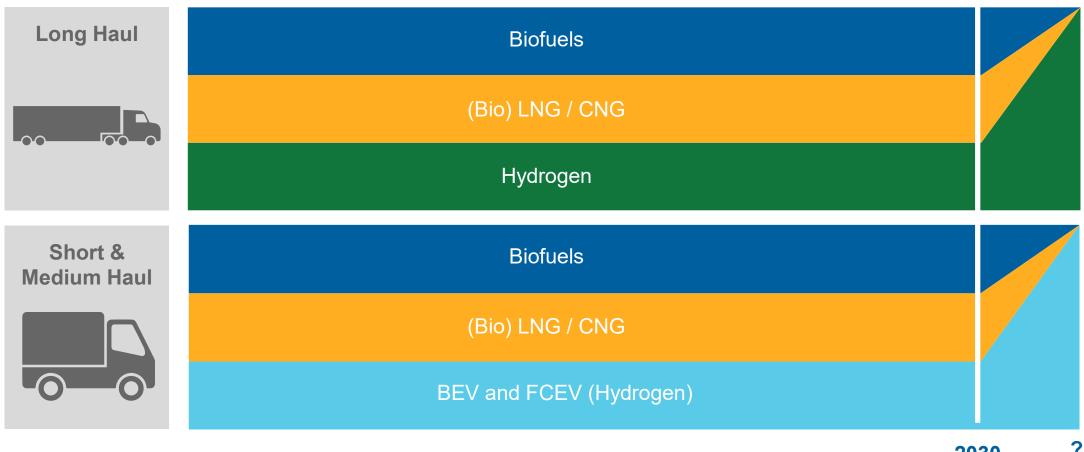


Source: eurogas.org



Pathways to decarbonization

A mix of alternative fuels including bio-fuels is needed for immediate decarbonization.





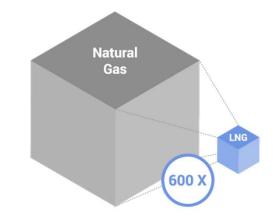
LNG

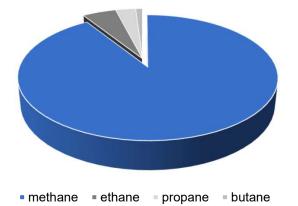
Ecological and Economical Clean Fuel in HD Transport





LNG basics



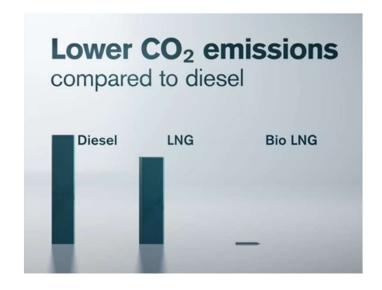


- LNG = Liquefied Natural Gas
- Cool down natural gas to -162°C
- Volume reduces 600 times
- Clear
- Colorless
- Non-toxic liquid
- Safe fuel
 - Small flammability range
 - High ignition temperature
 - Lighter than air
 - PPE required to fuel LNG





LNG basics





- Ecological alternative to diesel in heavy duty transportation
 - local air emissions
 - up to 20% CO2 reduction
 - 50% less noise pollution



- Lower fuel consumption than Diesel
- Available today







LNG basics











Hydrogen

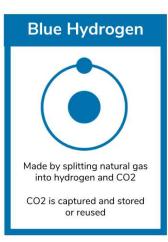
The Alternative Fuel on the Rise



Hydrogen basics

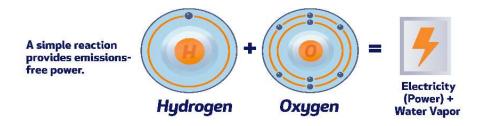
Production of Hydrogen The colors

Made by splitting natural gas into hydrogen and CO2 CO2 is emitted into atmosphere





Consumption in the fuel cell



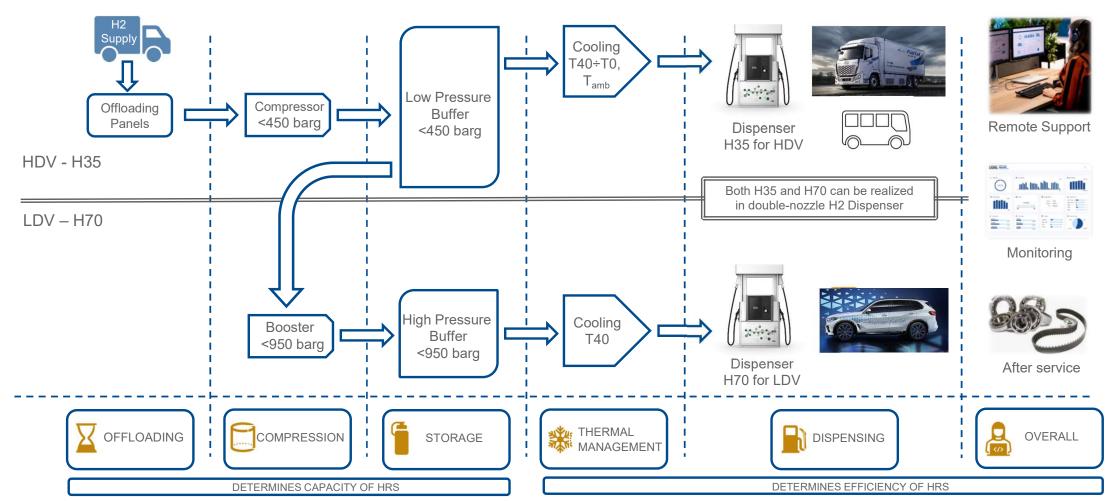








What is needed to fuel Hydrogen?





Key Takeaways

- Clear push to reduce CO₂ emissions from transportation
- Gradual move towards decarbonized fuels
- A mix of alternative fuels including bio-fuels is needed
- Stakeholder collaboration is key to success







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