

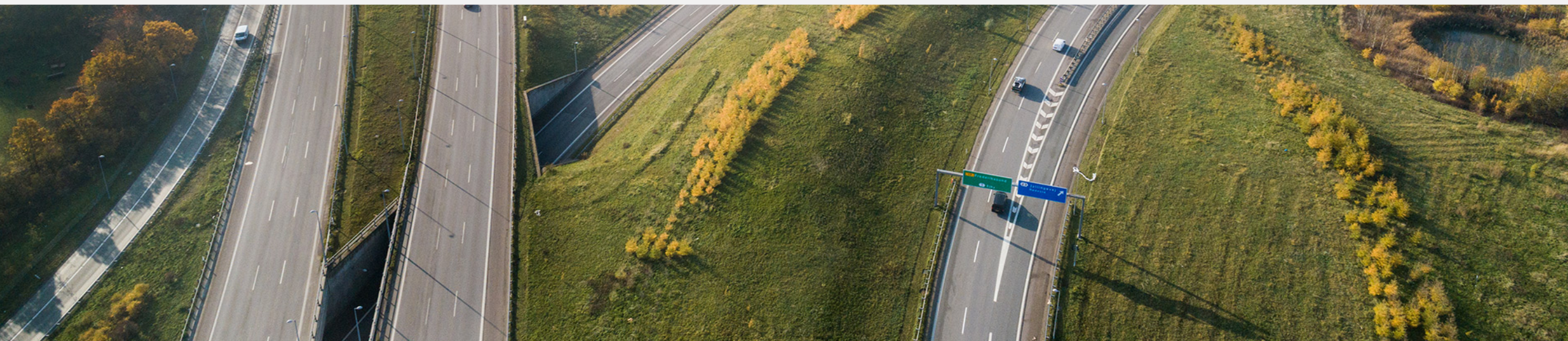


**NVF – webinar. Carbon Reduction and Resource Efficiency**

**25. November 2025**

**Alternative Fuels for heavy goods**

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# Fuels for heavy goods vehicles

- Diesel dominant in nearly 100 years
- Reduction of emissions
- Green transition is needed
- New and “old” alternative fuels



# ”Known” fuels and abbreviations

- Diesel
- Gas / Biogas
- Hydrogen
- Batteries
- ICE
- FCEV / BEV
- ZEV
- PtX
- Etc.



Credit: Silas Stein/dpa

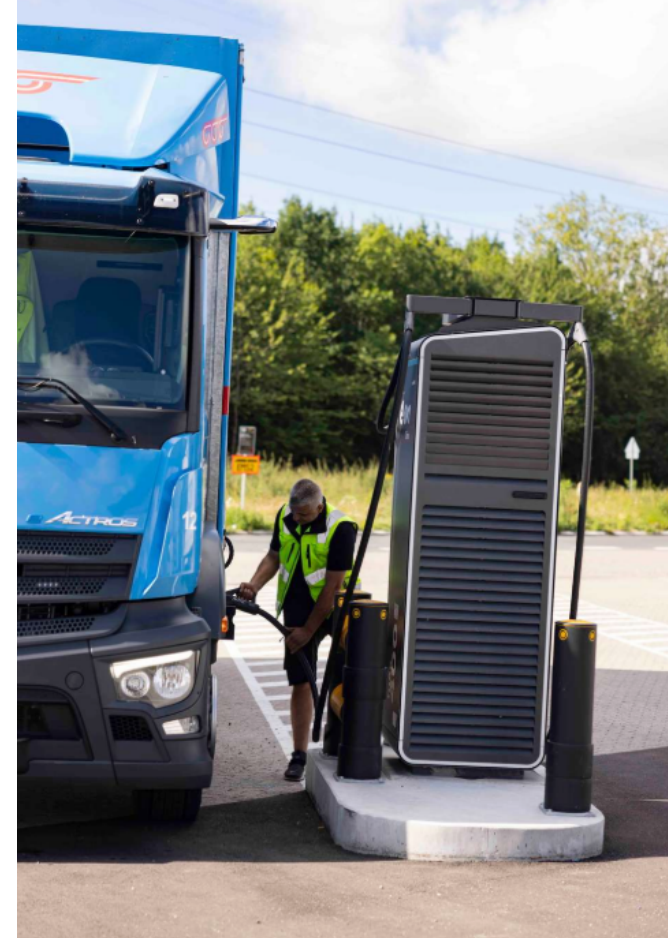
# Alternative fuels and their possibilities vs. classic diesel

(differs in the countries – some more, some less)

<i>Technologi</i>	<b><i>Bio</i>gas (CBG/LBG)</b>	<i>Electric pantograf</i>	<i>Electric batteries</i>	<i>Hydrogen (PtX)</i>
Fuel price	AVERAGE	LOW – but major infrastructure investments	LOW	VERY HIGH
Vehicle investment	ALMOST AVERAGE	LOW – but major infrastructure investments	VERY HIGH, but decreasing	VERY HIGH
Vehicle service and maintenance - additional costs	+10-20 % CBG, + 60 % LBG	LOW	LOW	HIGH
Tank-/charging facilities - additional investments	SOME – scaleable	MAJOR	HIGH	MAJOR
Accessibility to public refueling facilities	FEW	VERY FEW	FEW, but increasing	FEW
Environmental profil (CO <sub>2</sub> )	VERY HIGH (100 %)	VERY HIGH (100 %)	VERY HIGH (100 %)	VERY HIGH (100 %)
Other emissions	OTHER	0-emission	0-emission	0-emission
Noise	LOWER	VERY LOW	VERY LOW	VERY LOW
Overall suitability	SUITABLE	PROJECTS FOR NOW	BECOMING MORE SUITABLE	NOT YET SUITABLE

# Ex Denmark: National funds for alternative fuels vehicles

- 2020 Fund for the conversion of commercial transport
  - DKK 24 mio. – Establishment of refueling facilities with alternative fuels for vans and trucks, including pilot projects with both vehicles and infrastructure.
- 2022 Fund for green transport
  - DKK 45 mio. - Purchase of hydrogen or electric trucks.
- 2022 Fund for green fuel infrastructure for commercial transport
  - DKK 46 mio. - Publicly accessible and private refueling and charging infrastructure for e.g. taxis, vans, trucks and buses on electricity, gas and hydrogen.
- 2024 Fund for green conversion of heavy road transport
  - DKK 75 mio. - Additional cost of purchasing zero-emission trucks and depot charging (BEV & Hydrogen).
- 2025 Fund for green conversion of heavy road transport
  - DKK 323 mio. - Additional cost of purchasing or leasing zero-emission trucks and depot and destination charging (BEV & Hydrogen).



# Alternative fuels - discussion points in WG RFT

- What are status of today?
- Where are we aiming to go?
- What can the branch do?
- What can the authorities do?
- What would the branch like to?
- What would the authorities like to?

*Expectations?*

*Funds?*

*Future?*

*Development?*