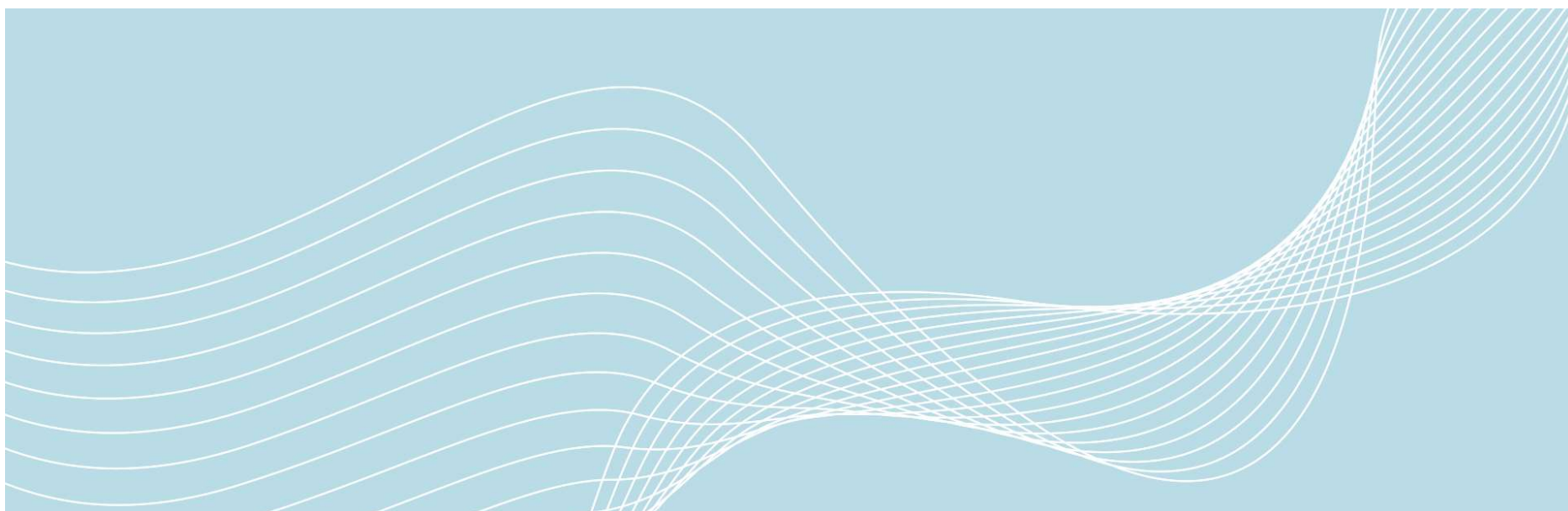


VELKOMMEN



TOGETHER TOWARDS ZERO EMISSIONS



UDFORDRINGEN

- Imødekomme det stigende behov for effektiv transport.
- Reduktion af trafikbelastning, støj, luftforurening og klimaaftryk – CO₂.



Volvo har taget føringen mod en mere bæredygtig fremtid

Vores Vision

ZERO
EMISSIONS FROM
VOLVO TRUCKS



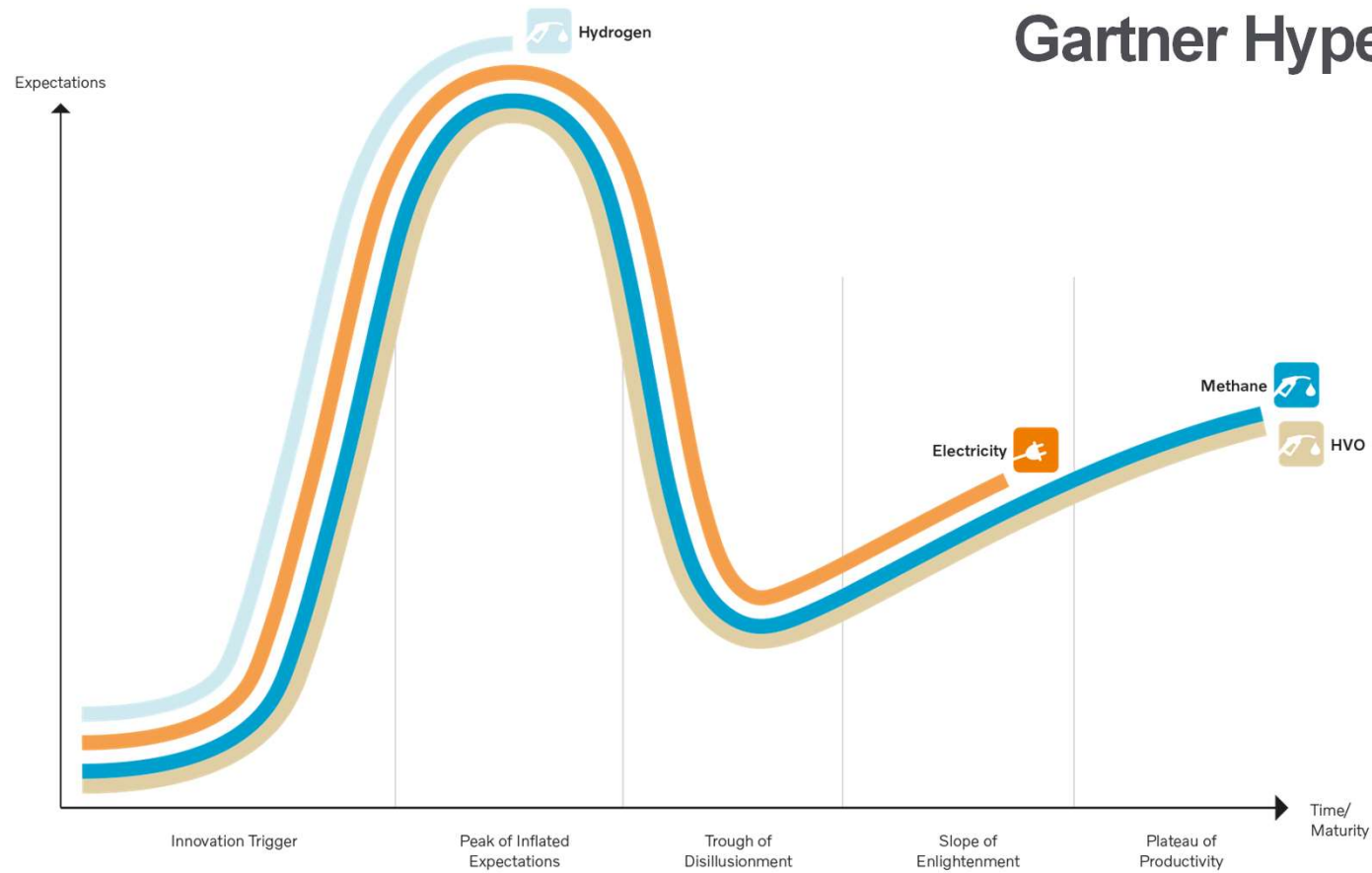
New climate target set!
We're committing to
Science Based Targets

TOGETHER
WE CAN SAVE THE WORLD

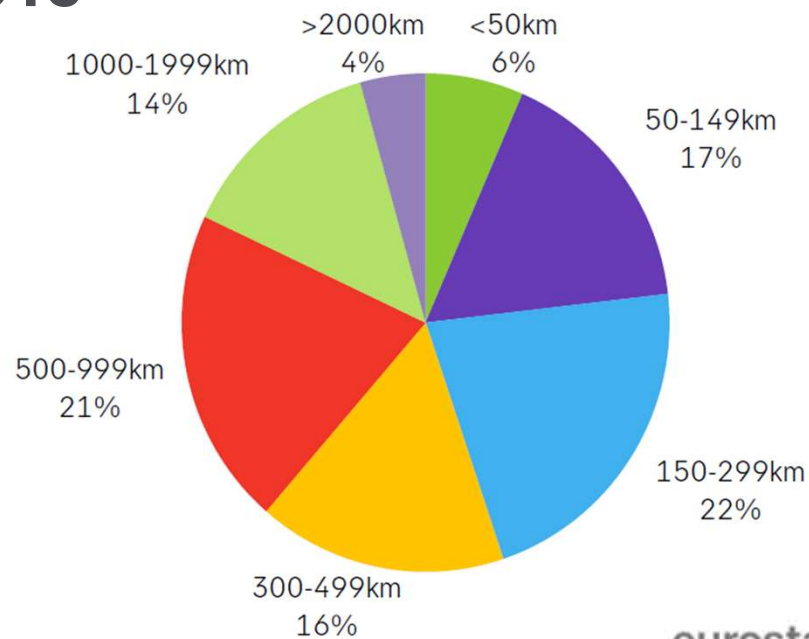
Volvo Trucks. Driving Progress



Gartner Hype Cycle



Road Freight Transports (tonnes km) by distance class 2018



eurostat 



VORES 2 SPORS KLIMA STRATEGI

ENERGI EFFEKTIVITET

ALTERNATIVE BRÆNDSTOFFER

TOGETHER
TOWARDS ZERO EMISSIONS

Volvo Trucks. Driving Progress



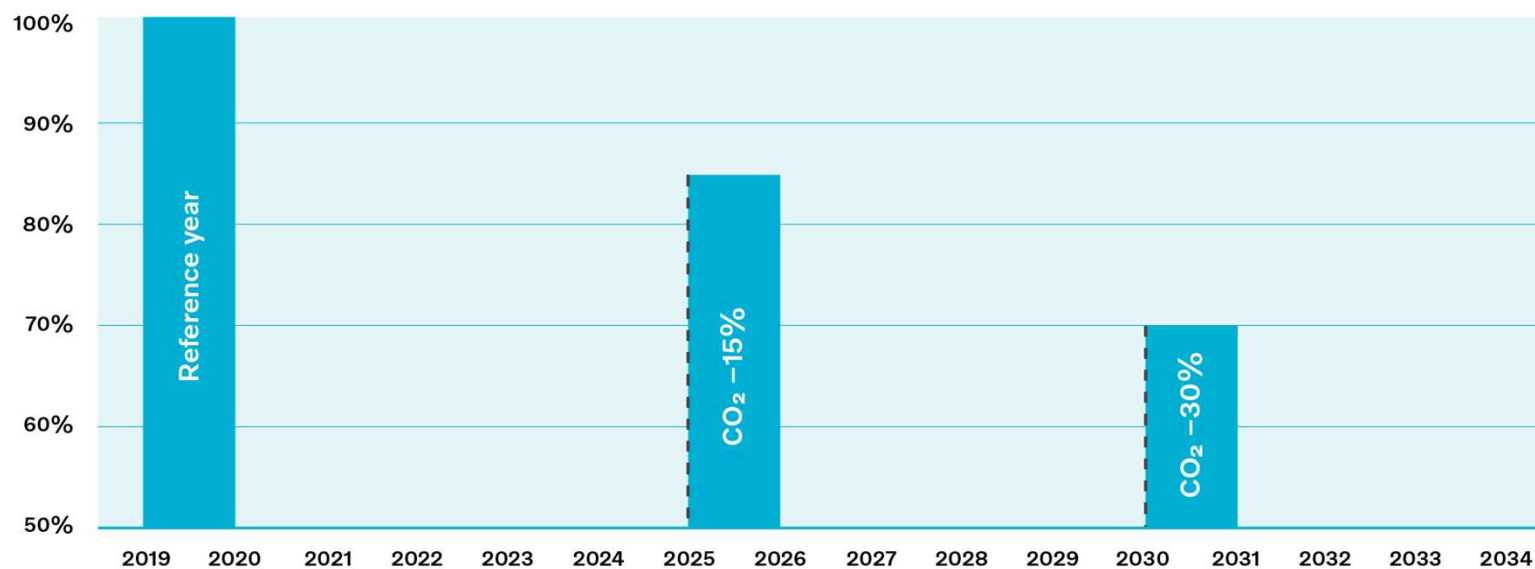


Volvo Trucks. Driving Progress



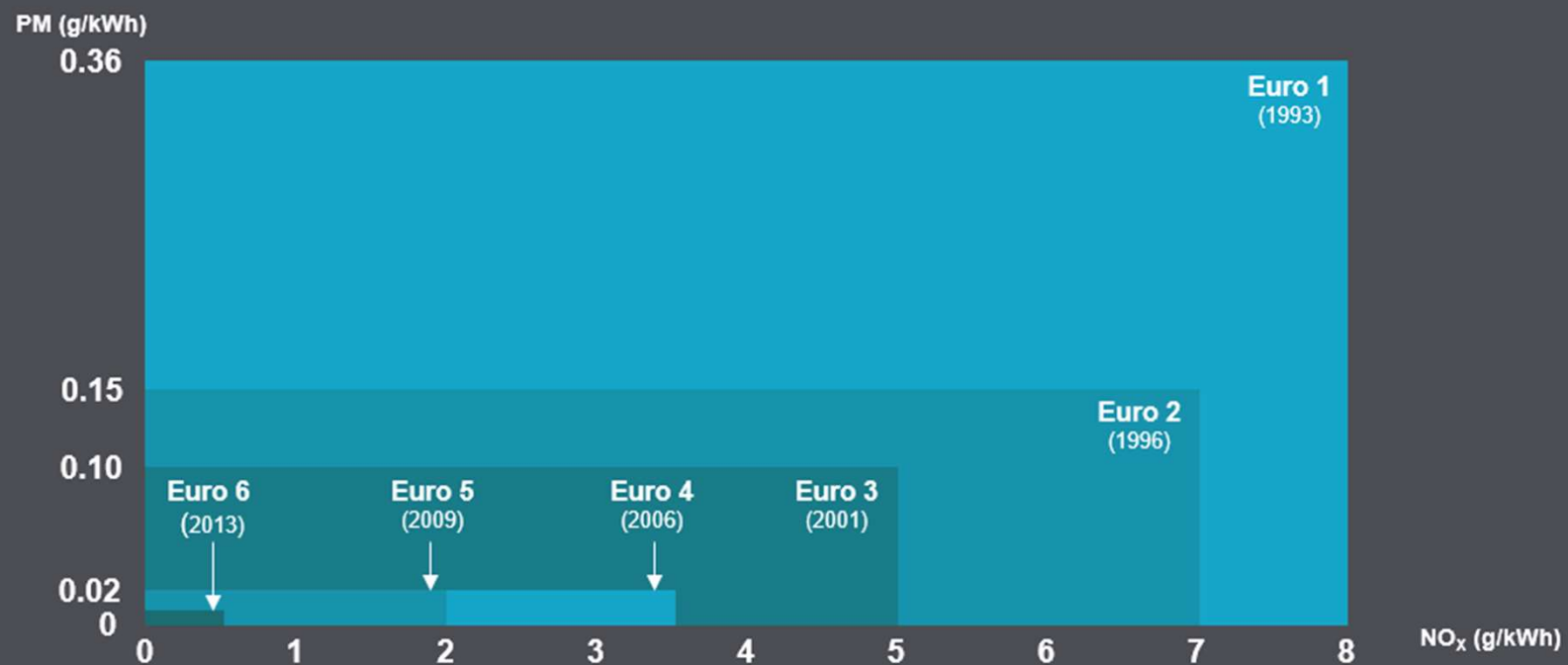
EU CO₂ KRAV

Industry average

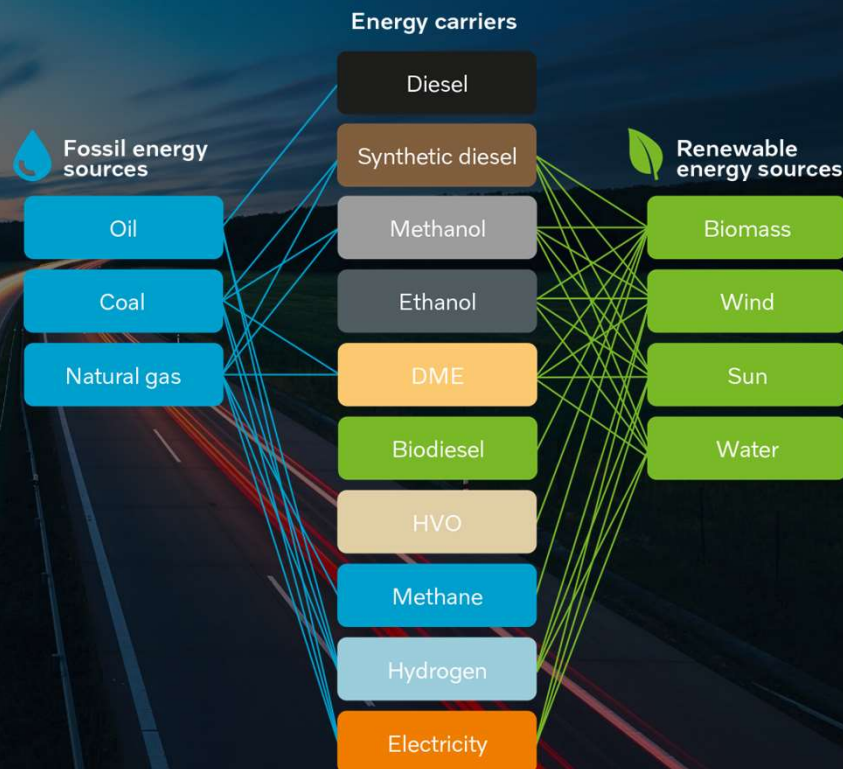


Reference Year = 100%. 1/7 2019–30/6 2020. Valid for: 4x2 above 16 ton. 6x2.

Udstødning emissions reduktion over tid



ALTERNATIVE FUELS THE WAY FORWARD



TOGETHER
TOWARDS ZERO EMISSIONS

Volvo Trucks. Driving Progress



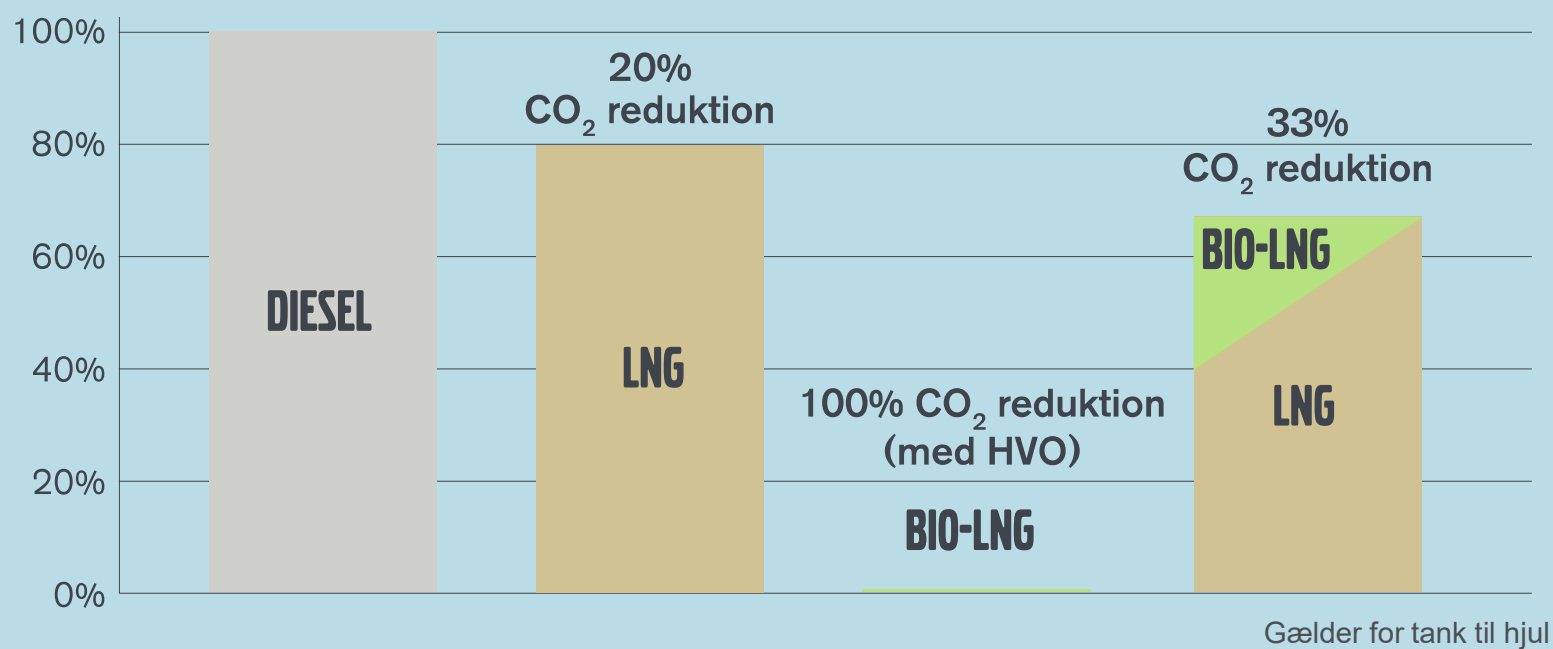


Volvo Trucks. Driving Progress



LNG – CO₂-besparelspotentiale

CO₂ emissioner

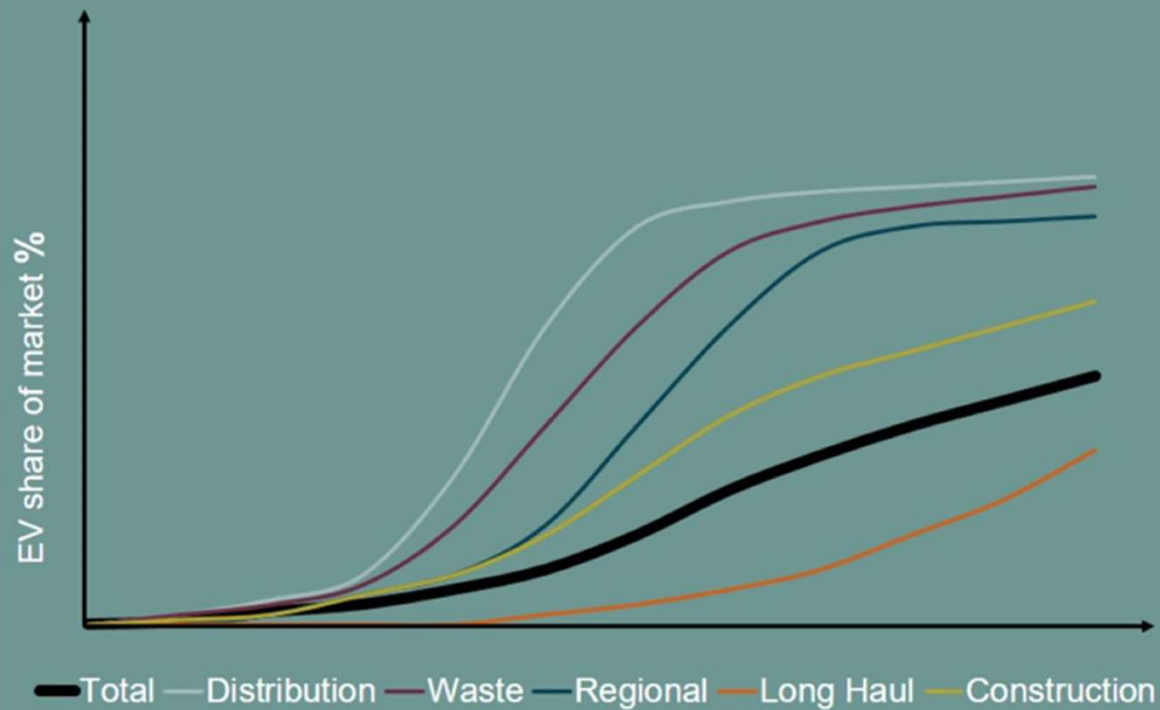




Volvo Trucks. Driving Progress



The Great Shift to electrification



- Segment by segment
- Market by market
- Region by region



CAST – a modular R&D approach

Combustion engine



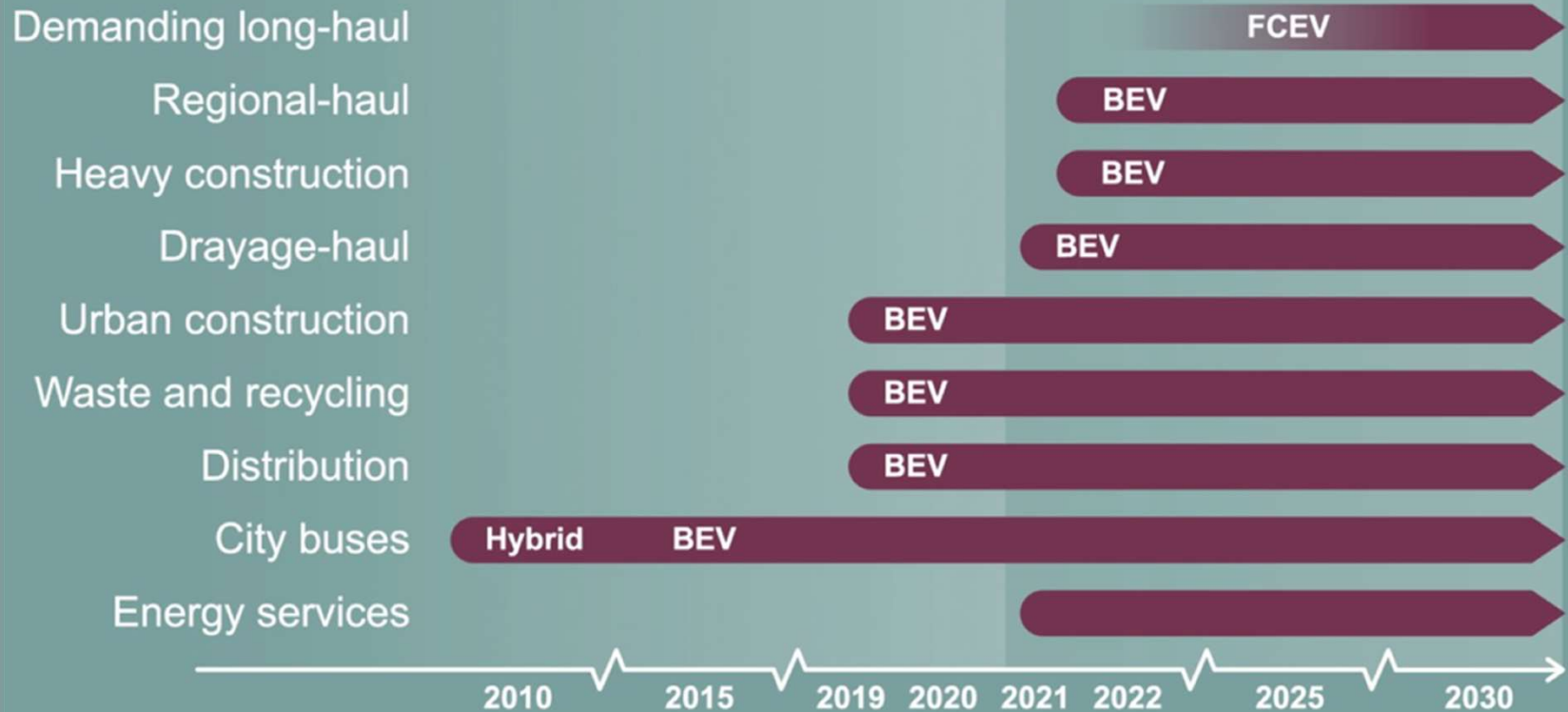
Battery electric



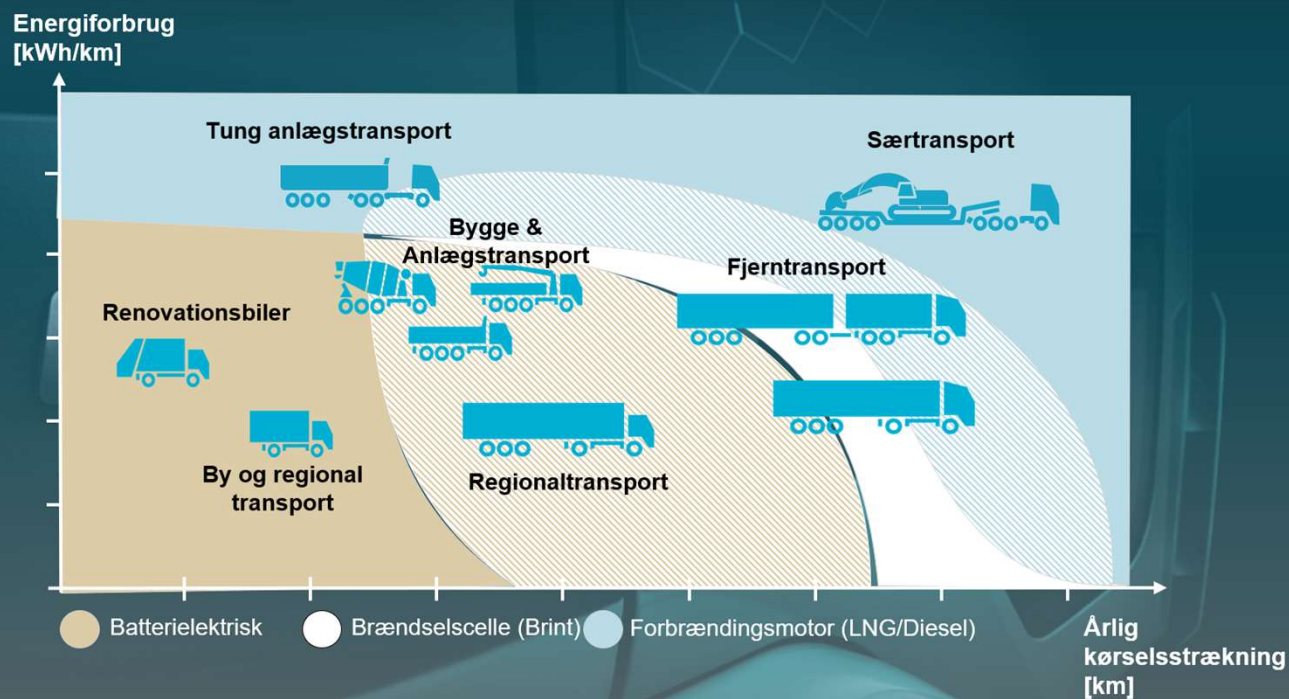
Fuel cell electric



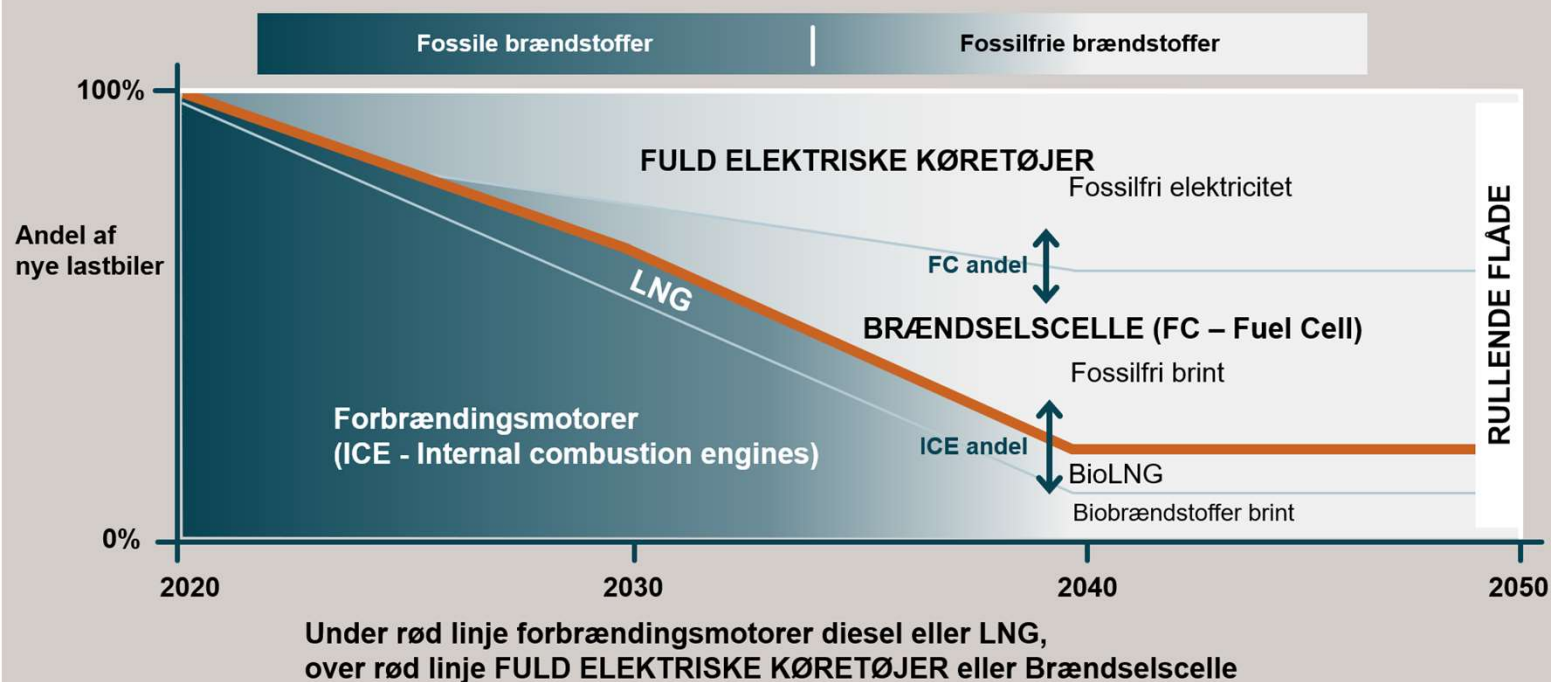
Fast-paced introduction

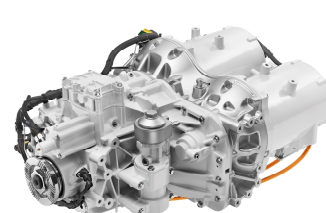


Flere teknologier skal anvendes for at opnå den nødvendige CO₂ reduktion



100 % fossilfri Volvo lastbiler fra 2040





cellcentric

A Daimler Truck & Volvo Group Company



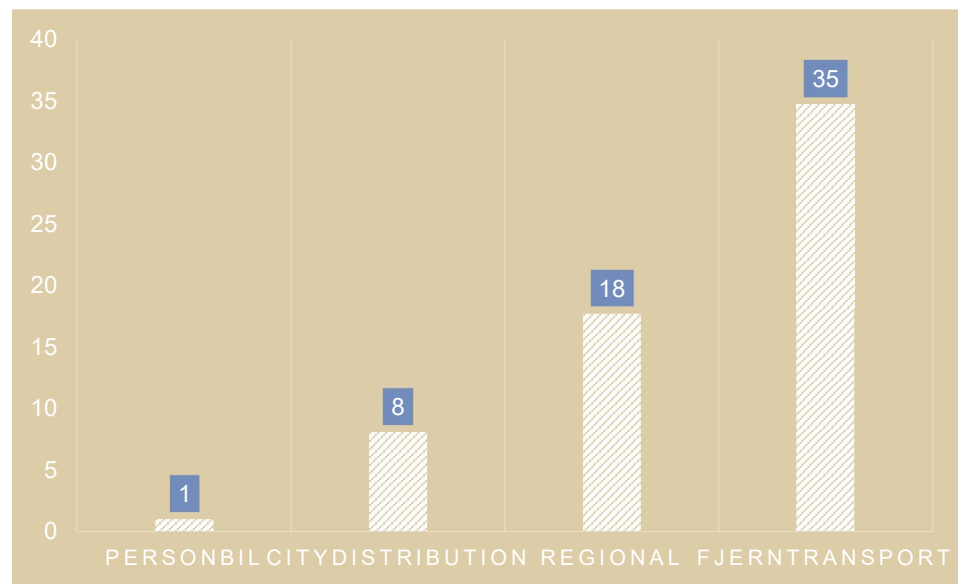
	Diesel	LNG	El	Brændselscelle
Nærmiljø Emission – NOx + PM	Euro VI + VII	Euro VI + VII	0	0
Globalt miljø Brug - CO ₂	HVO – 90 %	LBG – 100 %	Fossilfri EL – 100 %	Fossilfri EL – 100 %
Støj Under 60 km/t			+	+



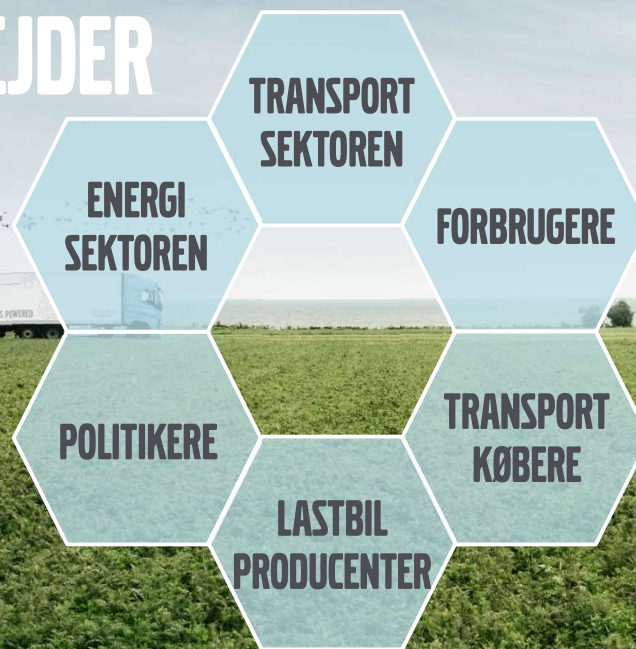
Volvo Trucks. Driving Progress



CO₂ POTENTIALE



VI HAR BRUG FOR AT ALLE SAMARBEJDER



TOGETHER
WE CAN CHANGE

Volvo Trucks. Driving Progress



Sammenfatning

Diesel



Gas



El



Brændselscelle



Anbefaling - køretøjsdimensioner

Transport effektivitet

	GVW	Load capacity	No. of vehicles	Street utilization	Fuel index
	26 t	17 t	1	22 m	100
	18 t	11 t	1,5	30 m	136
	12 t	7 t	2,4	43 m	179
	7,5 t	4 t	4,3	73 m	255
	3,5 t	1,5 t	11,3	180 m	544

Anbefaling - køretøjsdimensioner

The number speaks for themselves : 13,6m trailers
– real fuel consumption from production

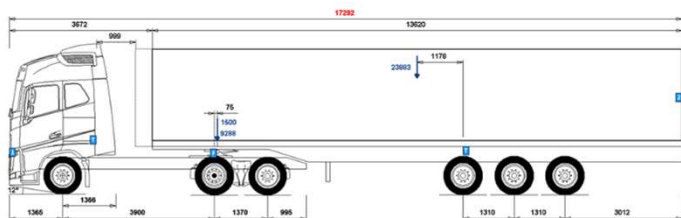
Standard EU
Load: 16 ton, 100 m³
Fuel consumption: 37 l / 100 km

EMS
Load: 24 ton, 150 m³
Fuel consumption: 48 l / 100 km

Duo2
Load: 32 ton, 200 m³
Fuel consumption: 53 l / 100 km

Savings compared to standard EU:
- 16% fuel and CO₂

Savings compared to standard EU:
- 27% fuel and CO₂

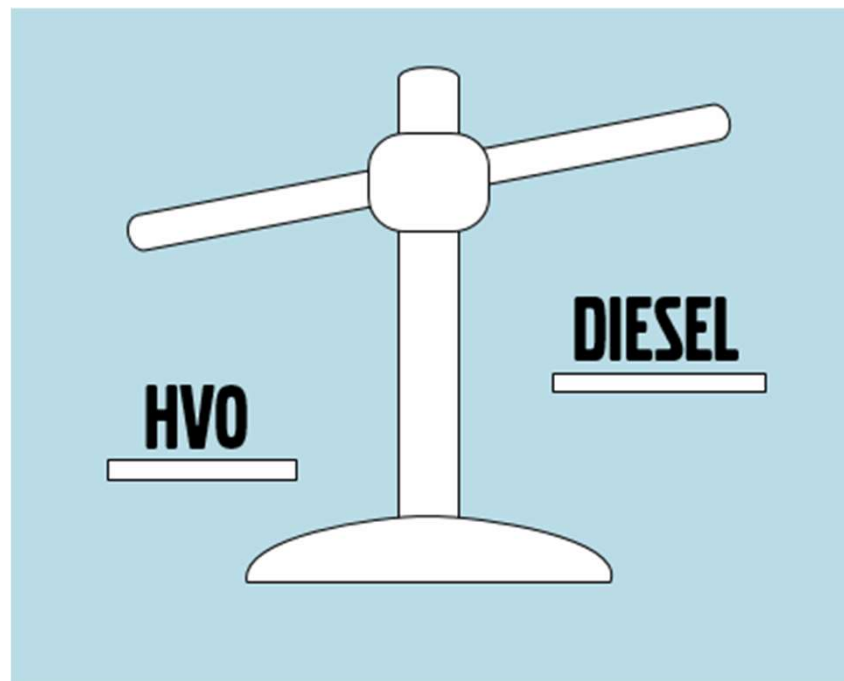


32 m vogntog
på overordnet vejnet

+1 m totallængde
Alternative brændstoffer
og ZEV

Anbefaling – energifgift CO₂ venlige brændstoffer

11,5 kr. pr liter



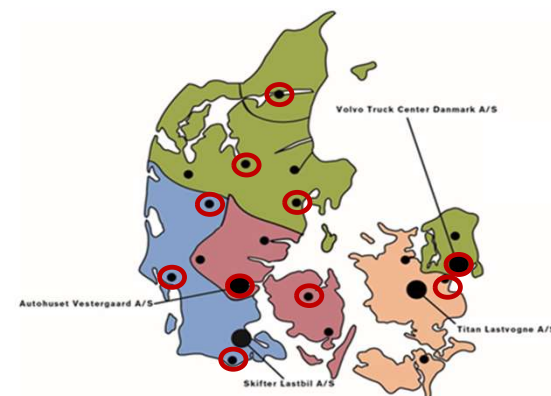
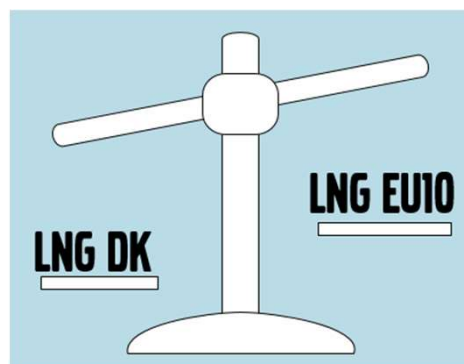
7,5 kr. pr liter

Anbefaling – LNG/LBG

10 stk. tankstationer – 250 millioner kroner
Gaspris i DK +2 kr pr. kg i forhold til EU10
Tilskud til LNG lastbil – 200.000 kr.



LNG Corridors



Anbefaling - elektrisk

Støtte til ellastbiler

Støtte til ikke offentligt tilgængeligt ladeudstyr

Exempel 1:	
Miljöfordonets inköpspris:	5 000 000 kr
Inköpspris närmast jämförbara dieselfordon:	3 000 000 kr
Stödberättigande kostnad *:	2 000 000 kr
20% av inköpspriset:	1 000 000 kr
40% av den stödberättigande kostnaden:	800 000 kr
Premiebelopp:	800 000 kr



år	Kr. pr. kWh	Maks
2021	2000 kr.	1.000.000 kr.
2022	2000 kr.	1.000.000 kr.
2023	1500 kr.	750.000 kr.
2024	1000 kr.	500.000 kr.
2025	500 kr.	250.000 kr.



TOGETHER TOWARDS ZERO EMISSIONS



