VOLVO

Hydrogen as a renewable fuel option

Zero Emissions

– roadmap and considerations

VOLVO

WHAT WE DO

Our BRANDS

VOLVO

VOLVO PENTA

UD TRUCKS

MACK®

Ambitious targets guiding our transition

50%

CO_2 reduction* by

2030

100%

CO_2 reduction* by

2040

NET ZERO

CO_2 emissions

BY 2050

*compared to 2019

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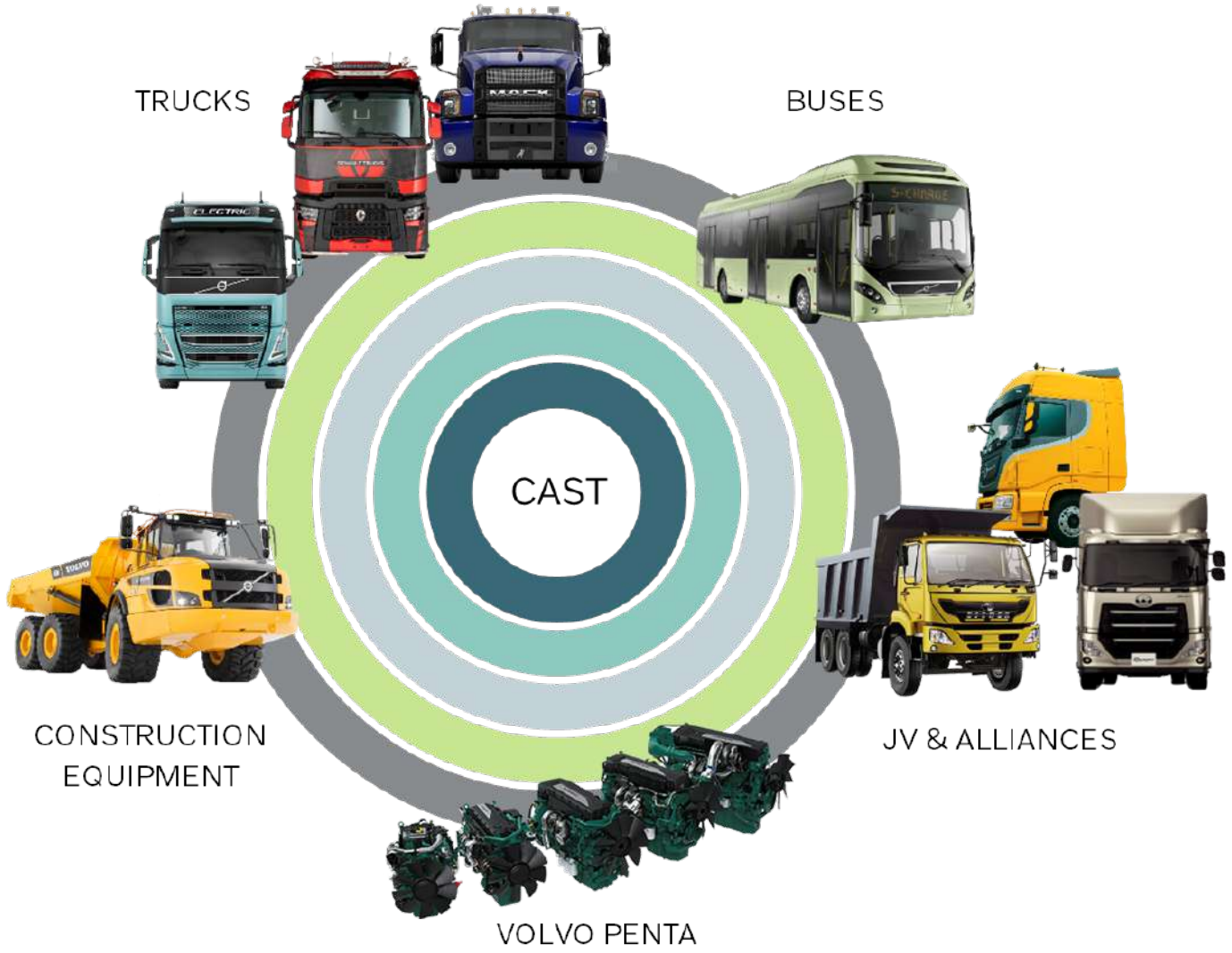
Common architecture and shared technology



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We have extensive experience of electrical vehicles










1995-2005
Environmental Concept Trucks and Buses

2010
Production start Hybrid Truck Hybrid Bus

2016
Production start Plug-in Electric Bus

2017
Production start Electric Bus

2019
Production start Electric trucks distribution

2021
Production start Electric trucks distribution conventional

2022
Production start Electric trucks regional haul and urban construction

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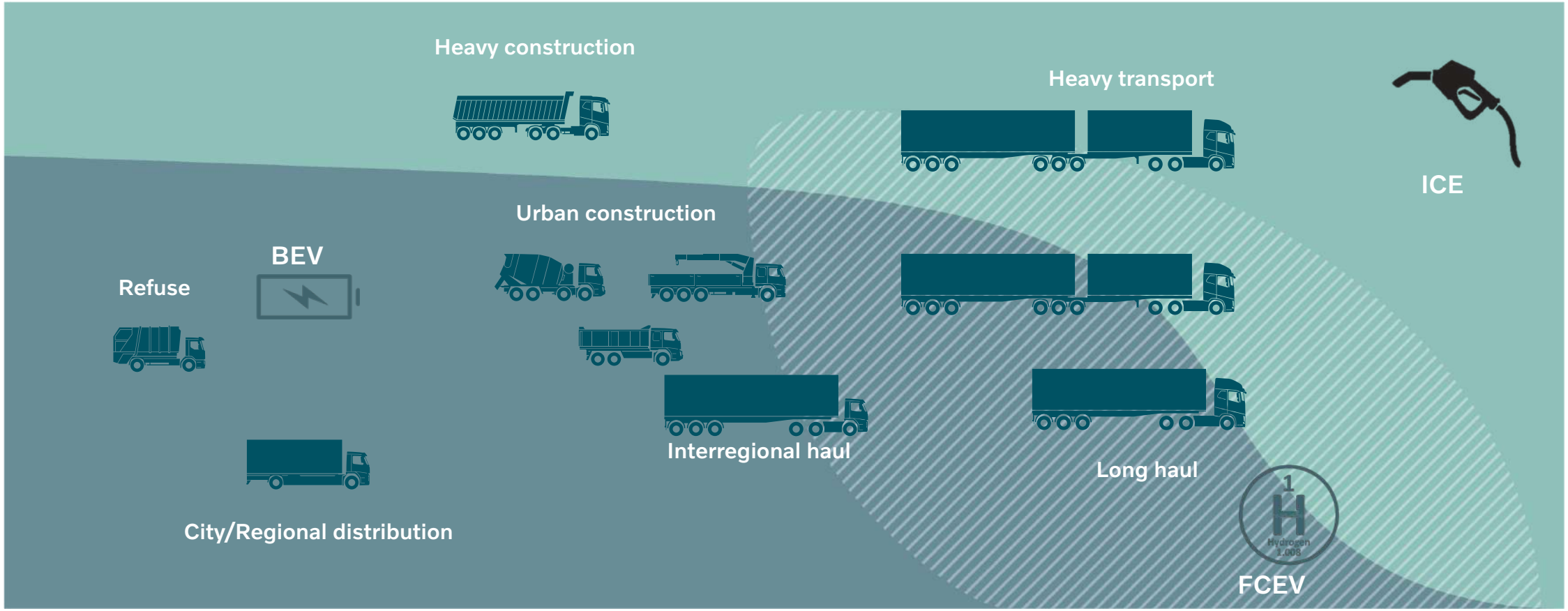
Roadmap - a mix of energy types will be required to meet net zero



We cannot package enough

BATTERY CELLS FOR INTERSTATE TRANSPORT

>76T

1
H
Hydrogen
1.008

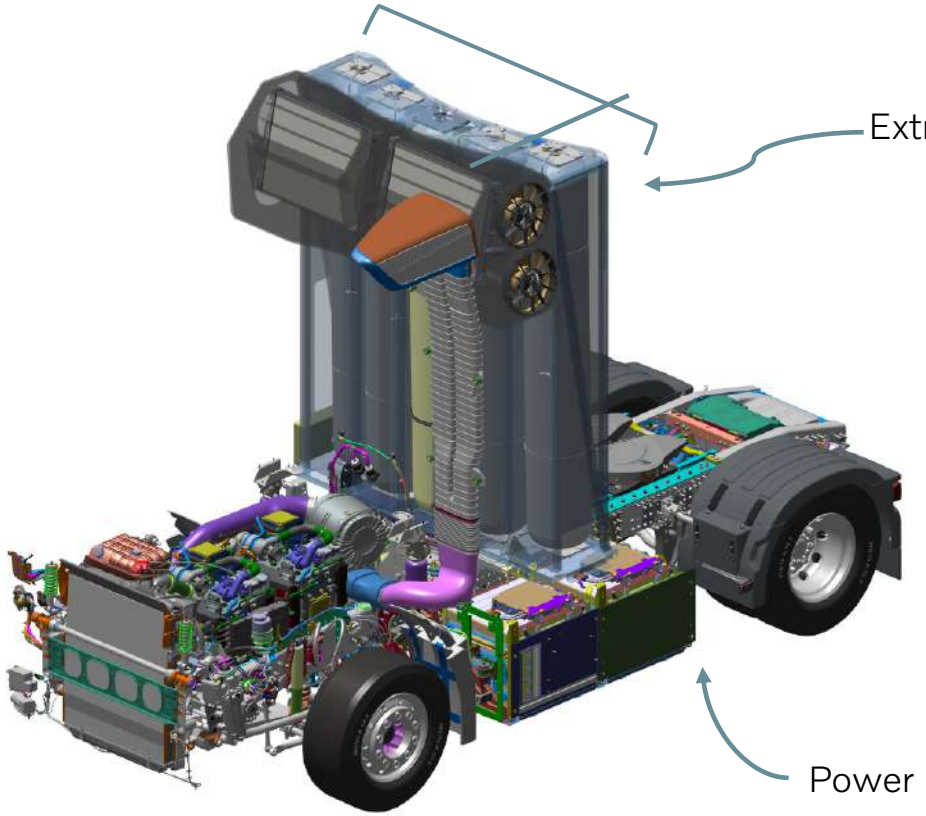
800 KMS

HYDROGEN FUEL CELL ELECTRIC

- prototype

What is a fuel cell electric vehicle?

Fuel cell system



Development Joint Venture - Cellcentric


VOLVO
Why?
FUTURE
GENERATIONS