



## What's New with Suppliers-Medium/Heavy Trucks

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## Today's Presentation Topics

#### What's new in the world of Medium & Heavy Duty Trucks

- Please describe your current and new conventionally fueled offerings in the next 1 - 3 years.
- Please describe your current and new electric offerings in the next 1 3 years.
- What is your best advice for selecting the best truck for the mission?
- As a Federal customer, is an EV truck in my future? What do I need to consider?
- Closing thoughts



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## 2023 Navistar GSA Offerings

#### **MV Chassis Based Items**

• Cab & Chassis 410, 414, 511, 513, 514

• Tractor 520

• Stake 430, 434, 531, 533, 535

• Dump 441, 444, 541, 543, 544

• Maintenance 561, 562, 563, 564

• Forestry 766

• Dry Van 471, 474, 571, 573, 574

• Reefer Van 481, 484, 581, 583

• Cable Hook Hoist \*590

Wrecker 972

• Carrier 978, 979, 980

\*=new items

• 6.7L or 9L power





### **HV Chassis Based Items**

• Cab & Chasssis <u>614</u>, <u>615</u>, 712, 714, 715

• Tractor <u>524</u>, <u>622B</u>

• Stake <u>633B</u>, <u>634</u>, 732, 734, 735, 833A

• Dump <u>644</u>, <u>645</u>, 742, 744, 745, 844

Maintenance <u>682</u>, 761, 763, 764, 765

• Dry Van <u>575</u>, 771, 774

• Refer Van <u>585</u>, 781, 784

\*Cable Hook Hoist \*591, \*592, \*601, \*671, \*674

\*Fuel/Water
 \*966C, \*966F, \*969W

Wrecker 973, 974, <u>975</u>

Carrier <u>981</u>, <u>982</u>, <u>983</u>

\* = new items

\_= 13L power





• Tractor 624V, 625V

Dump 648

• 13L or 15L power



## LT Chassis Based Items

Tractor 624H, 624S, 625H, 625S

• 13L power





### eMV Chassis Based Items

• Stake \*531e, \*533e

• Dry Van \*571e, \*573e

• \*=new items





#### California Air Resources Board Clean Air Rule Passed June 2020

- By 2024, an OEM must have 9% of class 4-8 sales be zero-emissions
- By 2035, 75% of class 4-8 straight truck sales must be zero-emissions
- 15 states may follow California's push to electrify trucks and busses
- CARB states account for 34% of total Class 6-7 market and 21% of Class 8 market

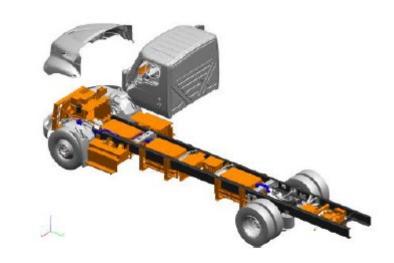
Model Year	Class 2b-3	Class 4-8	Class 7-8 Tractor
2024	5%	9%	5%
2025	7%	11%	7%
2026	10%	13%	10%
2027	15%	20%	15%
2028	20%	30%	20%
2029	25%	40%	25%
2030	30%	50%	30%
2031	35%	55%	35%
2032	40%	60%	40%
2033	45%	65%	40%
2034	50%	70%	40%
2035	55%	75%	40%

### **ZERO-EMISSION PRODUCT ROADMAP**

	Vehicle	Engineering Vehicles	Market Availability
1	CE Electric School Bus	Complete	Complete
2	eMV Medium Duty pickup and delivery	Complete	Mid 2021
3	BEV eTractor regional haul tractor	2021	2023
4	FCEV eTractor	2022	2023

#### PROVEN TECHNOLOGY MEETS INNOVATION

- Built off the proven MV Series
  - Same cab and interior for driver familiarity
  - Same proven chassis
- Same batteries, motor and electrical system as International's CE electric bus
  - Accelerate innovation
  - Economy of scale
  - Improve Uptime



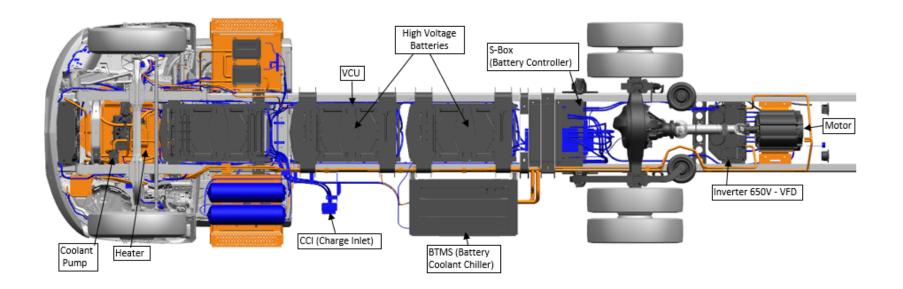
#### **Vehicle Performance**

Peak power: 335hp (250kW)

Continuous power: 215 hp (160kW)

#### **Battery Capacity**

135 miles 210 kWh





#### State of the art Instrument Cluster

- Temperature
- Ready to Move
- Propulsion & Regenerative Load
- State of Charge/Energy gauge
- Regenerative brake indicator

**Feature** 

**Availability** 

Axle Configuration 4X2

Body Configuration Dry Van, Stake

Wheelbases / A.F. (Dry Van) 272" / 112" (26' box)

254" / 106" (24' box)

236" / 100" (22' box)

214" / 100" (20' box)

Wheelbase (Service Body) 217"

12V Liftgate Available

GVWR 25,999 and 33,000 lbs.

Interior Flat Panel

Brakes Air Brakes

#### **Maintenance Schedule**

Coolant flush 5 Year

Filter changes on Air compressor 1 Year

Standard Air Brake System maintenance schedules

#### **Vehicle Warranty**

Vehicle Coverage	<u>Years</u>	<u>Miles</u>
Chassis Warranty	2 Years	Unlimited
Drive Battery	5 Years	100,000
Drive Motor	5 Years	100,000
Drive Charger & Cables	5 Years	100,000
Steering Pump/Air	1 Year	Unlimited
Compressor		

- Warranty is not pro-rated
- Contract International for optional extended warranty coverages

#### **Charging Fundamentals**

Level 1: Provides charging through a 120 V AC plug and does not require installation of additional charging equipment

- Residential / Auto Charger
- Typically 1.9 kW
- Not suitable for commercial vehicles



Level 2: Provides charging through a 240 V (for residential) or 208 V (for commercial) plug and requires installation of additional charging equipment.

- Commercial Charger
- 3kW 19.2kW
- Typically 19.2 kW for commercial
- Suitable for overnight charging
- eMV compatible

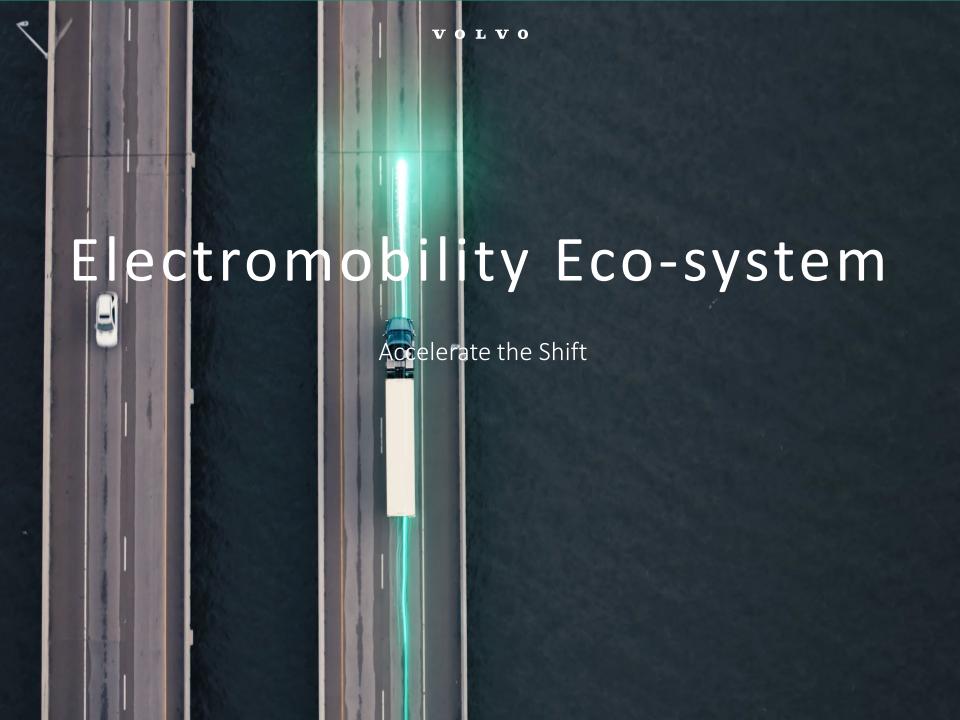


DC Fast Charge: Provides charging through 208 – 600 V AC input and requires specialized equipment to be installed at your vehicle location.

- Commercial Charger
- Multiple Power Options
- 24 kW to 350 kW
- Full Charge in < an Hour</li>
- eMV compatible

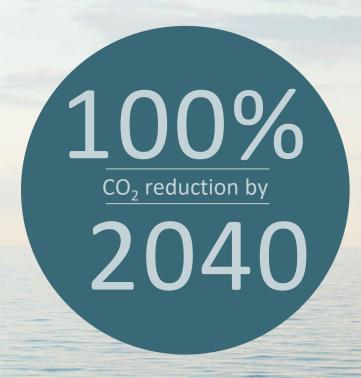






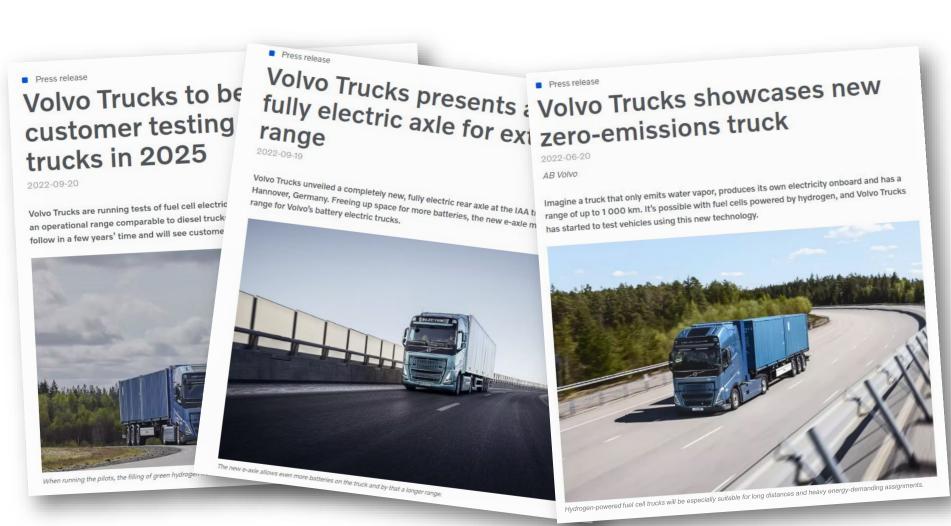
### Towards fossil-free transport

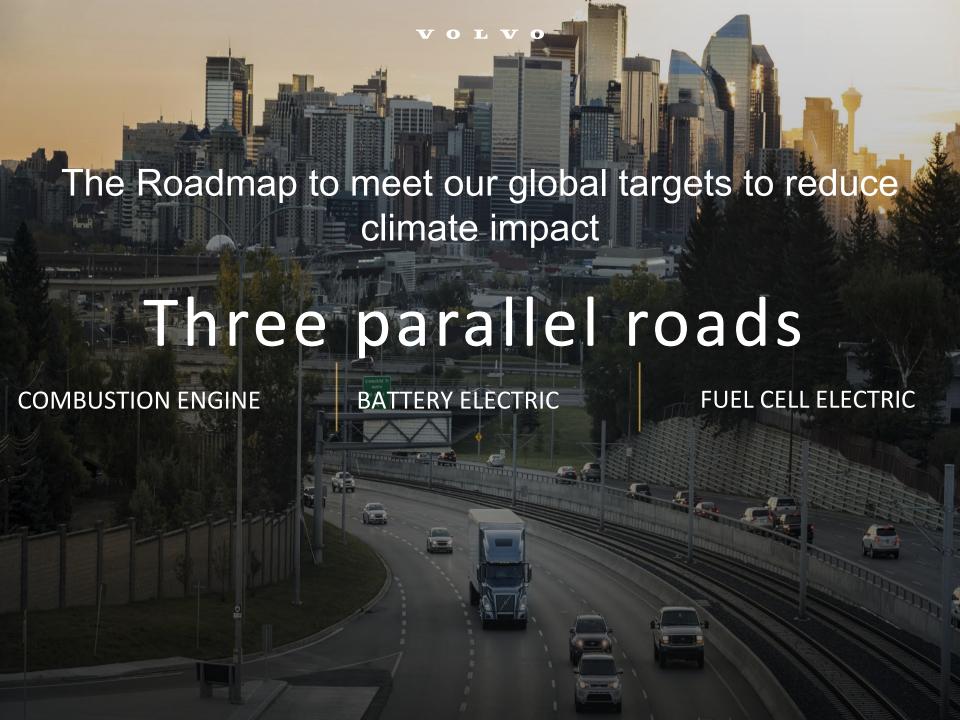
50%
CO<sub>2</sub> reduction by
2030



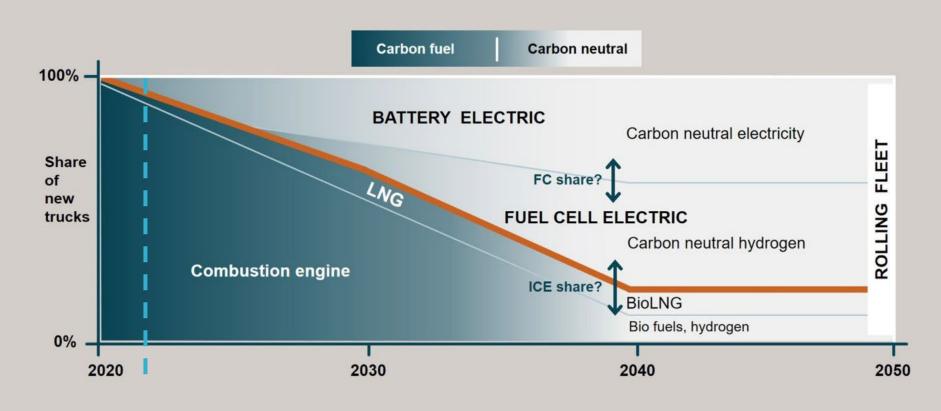


## Global platform to decarbonize transportation





# 100% fossil-free Volvo Group vehicles by 2040



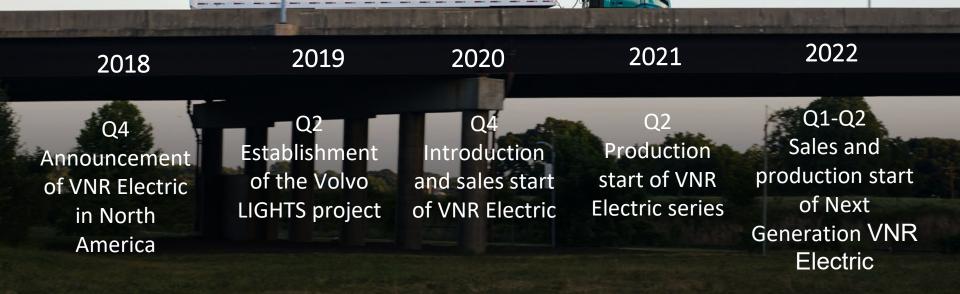
Volvo Trucks 25

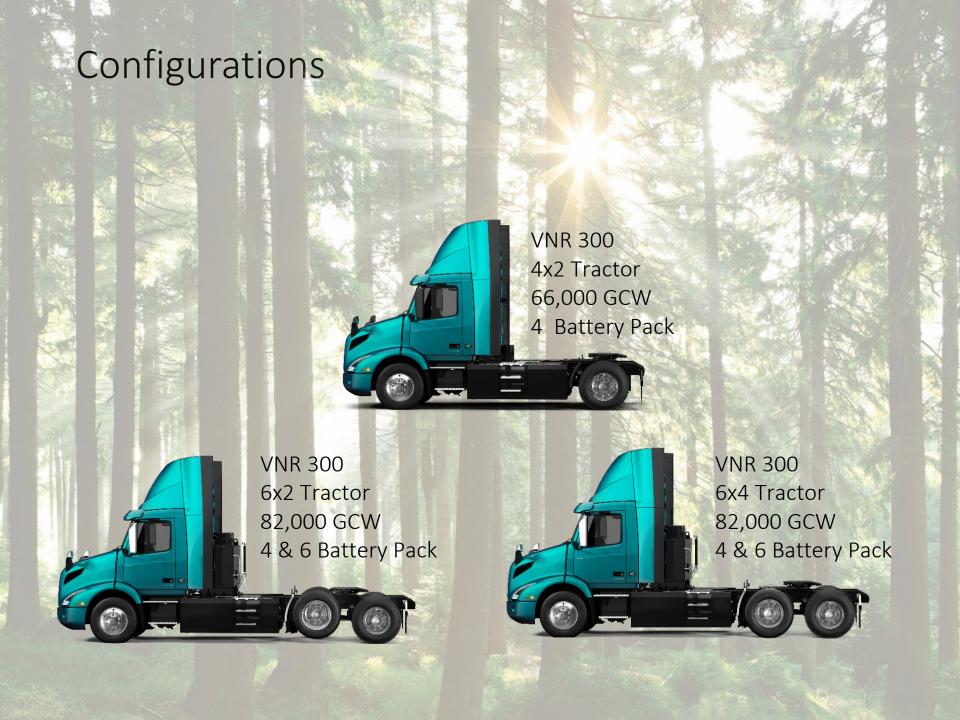
# Volvo Trucks North America key priorities

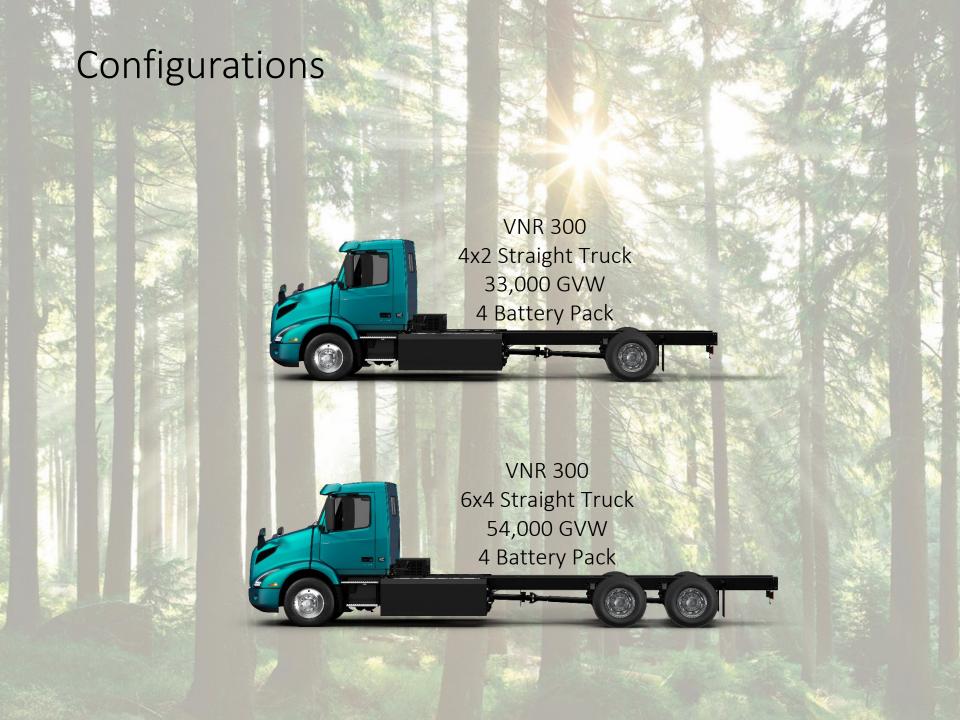
Sustainable growth

- Customer satisfaction
- Decarbonized transport solutions
- Uptime and fleet efficiency

# accelerated go-to-market of the volvo VNR Electric



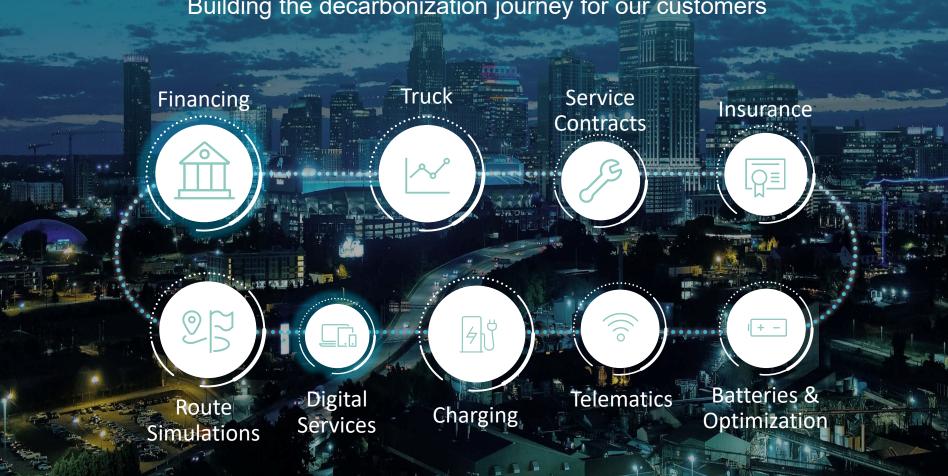






# E ELECTRomobility ECOSYSTE

Building the decarbonization journey for our customers



# Scaling VNR Electric deliveries

Customers across North America are putting the VNR Electric into real operations to achieve decarbonized transportation













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**VNR Electric** 



https://www.volvotrucks.us/trucks/vnr-electric/

