



# VOLVO CE

Sustainability roadmap  
CLIMATE – RESOURCES – PEOPLE

# The world is changing

Global mega trends that are shaping the future



Growing  
global population



Decarbonization  
and air quality



Rapid  
urbanization




Increased  
digitalization



New societal  
demands



New  
technologies

A photograph of four people sitting on a hill, looking out over a city at sunset. The sun is low on the horizon, casting a golden glow over the city skyline. The people are silhouetted against the bright light. The text 'OUR PURPOSE TO BUILD THE WORLD WE WANT TO LIVE IN' is overlaid on the left side of the image.

OUR PURPOSE

**TO BUILD THE WORLD  
WE WANT TO LIVE IN**

# LONG-TERM AMBITION

100%

Safe  
Fossil-free  
More productive



# A strategy built on three pillars – to build the world we want to live in



## Climate

Greenhouse gas emissions are one of the biggest threats to the planet. We are committed to the goals of the Paris agreement and aim to be CO<sub>2</sub> neutral by 2050 at the latest.



## Resources

The planet's resources are finite. We use new technologies to help our customers increase their efficiency and productivity, and we take a step change on circularity.



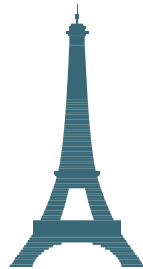
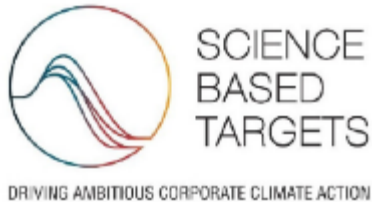
## People

We are a human centric company. We strive to deliver safety, respect human rights, conduct business responsibly and use our full potential.



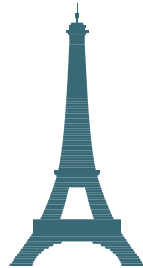
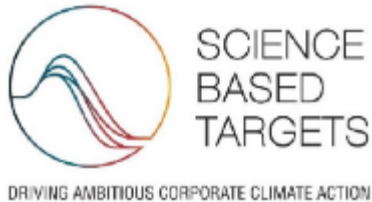
# Volvo group has committed to Science Based Targets

- An initiative designed for organizations to set own targets aligned with UN Paris agreement on climate change
- Volvo Group is committed to target net-zero value chain greenhouse gas emissions by no later than 2050
- Volvo CE has set ambitious interim science-based targets to reach this objective



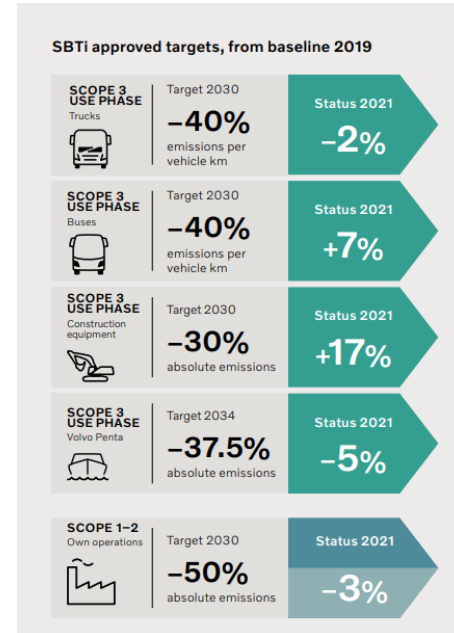
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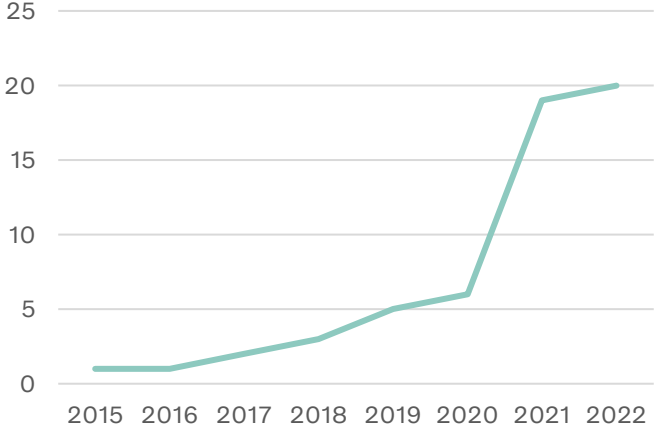
## Volvo Group

Annual and Sustainability Report 2021

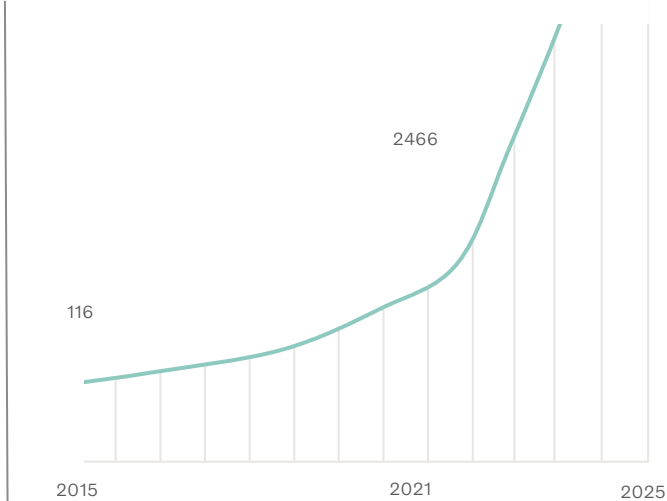


# Companies taking action

by committing to science-based targets



Volvo CE customers



Companies worldwide





# CO<sub>2</sub> Emissions

## Ex. Volvo CE Dealers

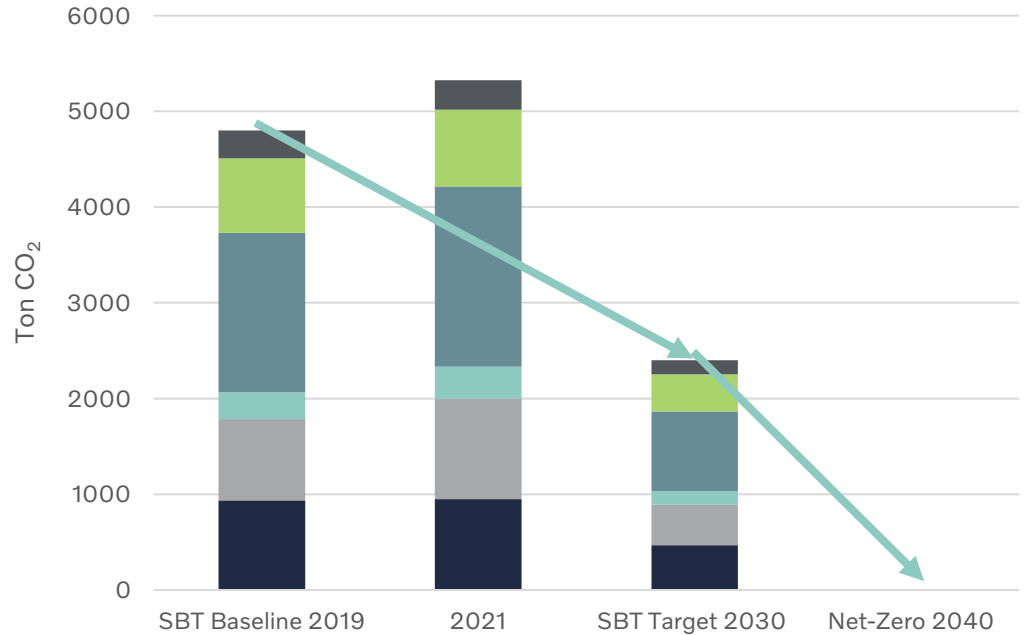


Baseline 2019

4798 ton of CO<sub>2</sub>

Target, 50% reduction of Scope 1 & 2  
CO<sub>2</sub> emissions by 2030

Science based Targets



# Reduce environmental footprint from our operations

Volvo CE Braås goes for net-zero emissions in the whole value chain.

Braås site was first in the industry with a CO<sub>2</sub> neutral production (2014).

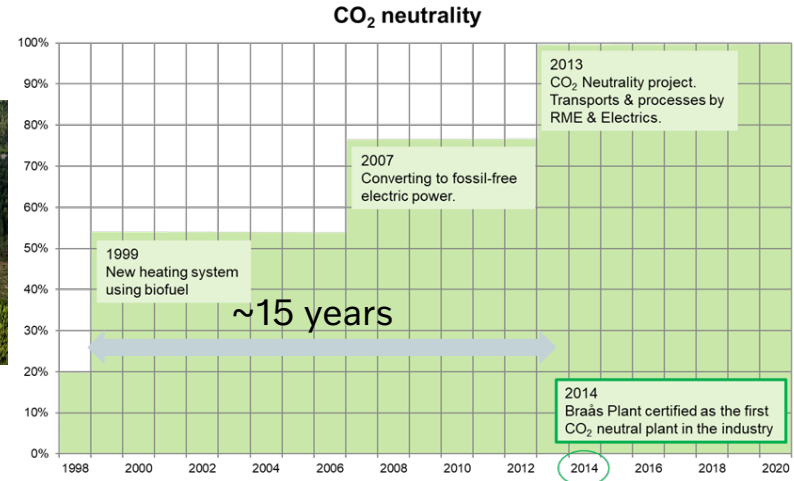
Today it is also landfill free.

Machines are tested and delivered with HVO in the tank .

All the employees are engaged in reducing our environmental impact.

## CO<sub>2</sub> neutral production site in Braås Home of the Articulated Hauler

Braås site was first in the industry with a CO<sub>2</sub> neutral production (2014).





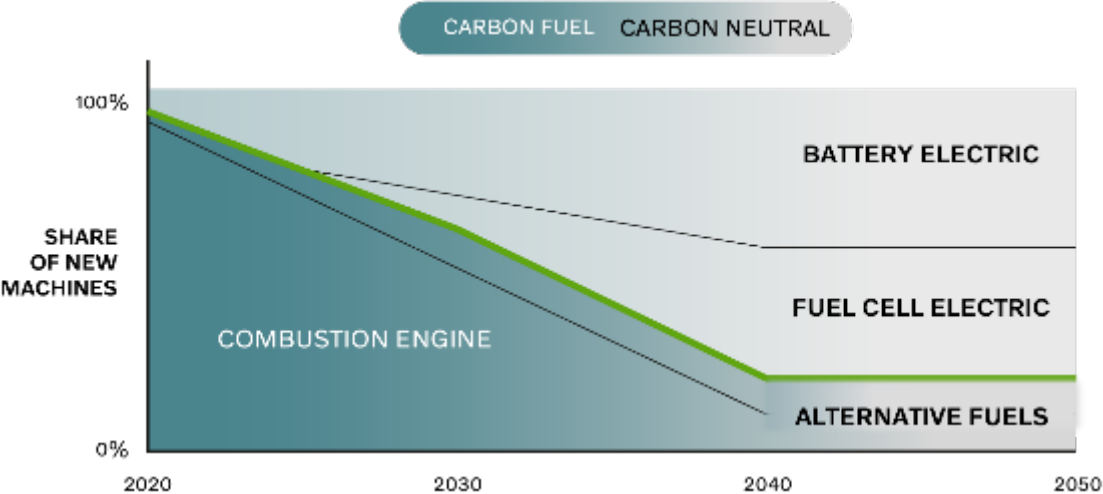
# GOING ELECTRIC

VOLVO

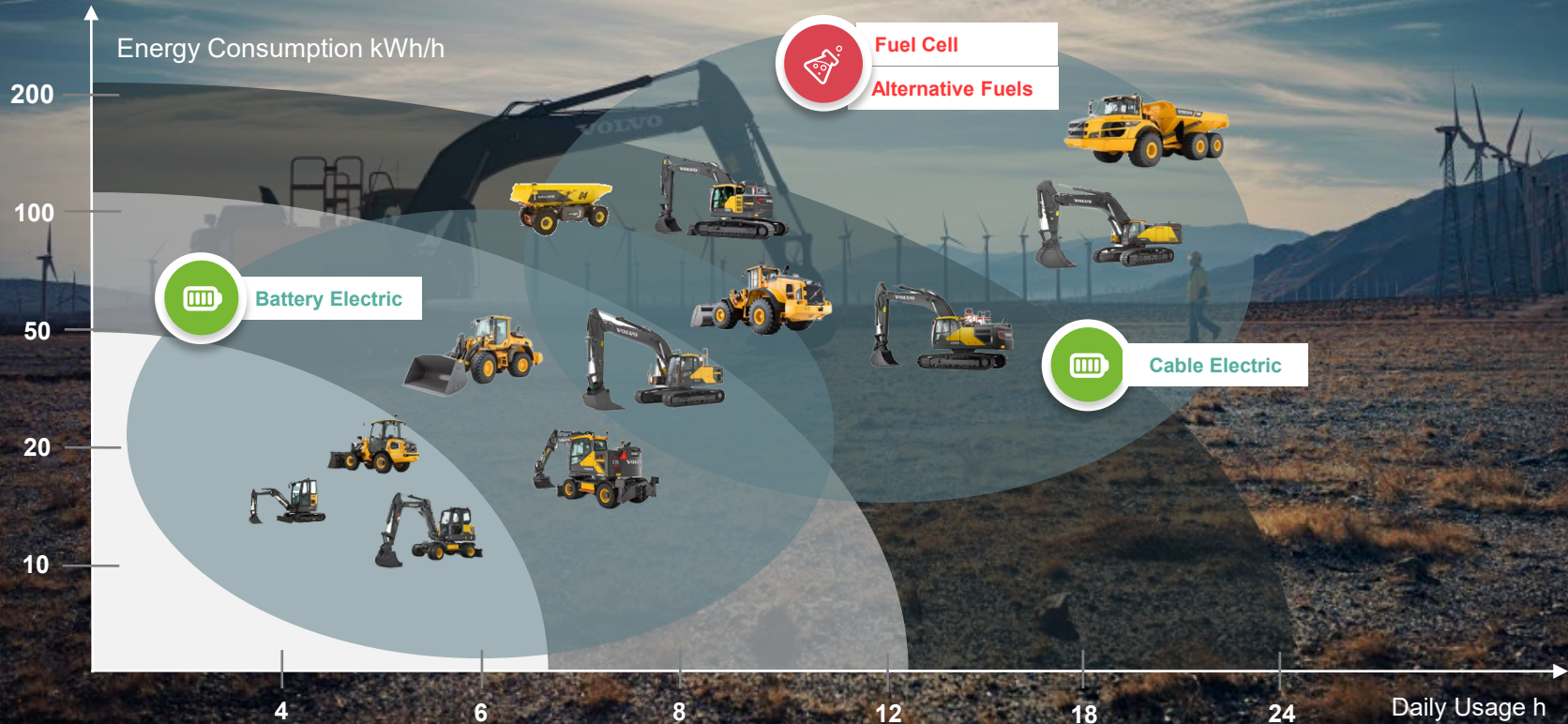
# A SILENT REVOLUTION

Largest line-up of commercially available electric machines

# Our journey towards 100% fossil-free products 2040



# When to use what technology?



# Volvo CE is on the way



## TARA TA15

- Autonomous
- Electric



## Fossil free steel

- A30G
- Sold to customer



## Hydrogen ADT

- First prototype



## EC230

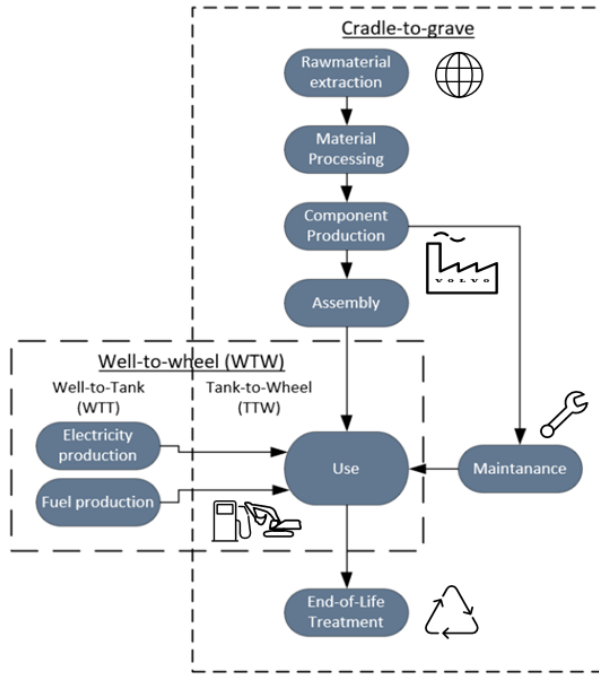
- Customer pilot



# Life-Cycle Assessment (LCA)



LCA enables us to address the environmental impact of our products in their entire life-cycle.



Volvo Construction Equipment

## LCA/CARBON FOOTPRINT VOLVO ARTICULATED HAULERS

In this document, the LCA/ Carbon footprint results for Volvo Articulated Haulers are presented.

In the table below, carbon dioxide emissions from cradle to gate (raw materials processing, component manufacturing and machine assembly) for each articulated hauler can be found.

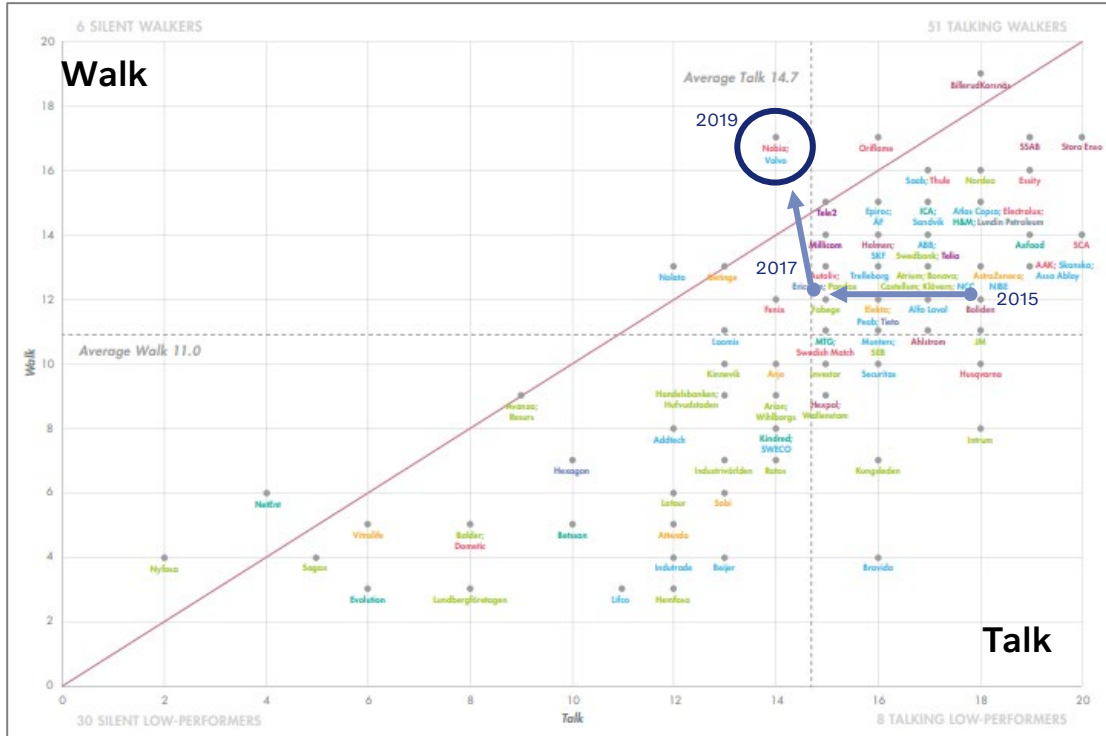
Cradle to gate		Emissions (kg CO <sub>2</sub> -eq per machine)					
Model (Analysis year)	A25 (2020)	A30 (2020)	A35 (2020)	A40 (2020)	A45 (2020)	A60 (2020)	
Scope 3 upstream	83 500	87 000	105 500	111 000	113 000	163 000	
Scope 1 & 2	1 580	1 670	1 230	1 230	1 240	1 660	
<b>Total</b>	<b>85 080</b>	<b>88 670</b>	<b>106 730</b>	<b>112 230</b>	<b>114 240</b>	<b>164 660</b>	

In the table below, cradle to grave (all steps from extraction of raw materials to recycling and end of life) emissions per hour used for the same articulated hauler models are summarized.

Cradle to grave		Emissions (kg CO <sub>2</sub> -eq per operating hour)					
Model (Analysis year)	A25 (2020)	A30 (2020)	A35 (2020)	A40 (2020)	A45 (2020)	A60 (2020)	
Manufacturing	6.4	5.5	3.8	3.6	4.5	4.8	
Use (incl. outbound & service)	45.7	51.7	61.5	73.9	73.4	92.4	
End of life	0.4	0.3	0.3	0.2	0.3	0.3	
<b>Total</b>	<b>52.5</b>	<b>57.5</b>	<b>65.6</b>	<b>77.7</b>	<b>78.2</b>	<b>97.5</b>	



# Our guiding star: to walk the talk



Volvo Construction Equipment

- It's about credibility and trust
- Balance between communication and action

Source: Walk the Talk  
by Stockholm School of Economics



**DO THE BEST YOU CAN UNTIL YOU KNOW  
BETTER.  
THEN WHEN YOU KNOW BETTER,  
DO BETTER.**

Maya Angelou

**V O L V O**