

Ein Projekt der

**dena**







Plattform Nachhaltiger  
**Schwerlastverkehr**

# Platform on sustainable heavy duty trucks

Advancing the ramp-up of sustainable HDVs, fuel alternatives and infrastructure



# HDV market

				
Energy carrier	<b>Green electricity</b>	<b>Green hydrogen</b>	<b>Bio-LNG / Bio-CNG</b>	<b>HVO100</b>
Production	Renewable Energy	Electrolysis	Anaerobic digestion (manure, agricultural residues, food waste)	Hydration (waste fats, vegetable oils, and animal fats.)
Propulsion	Battery Electric Vehicle (BEV)	Fuel Cell Electric Vehicle (FCEV) H <sub>2</sub> -ICE*	Gas-ICE*	Diesel-ICE*

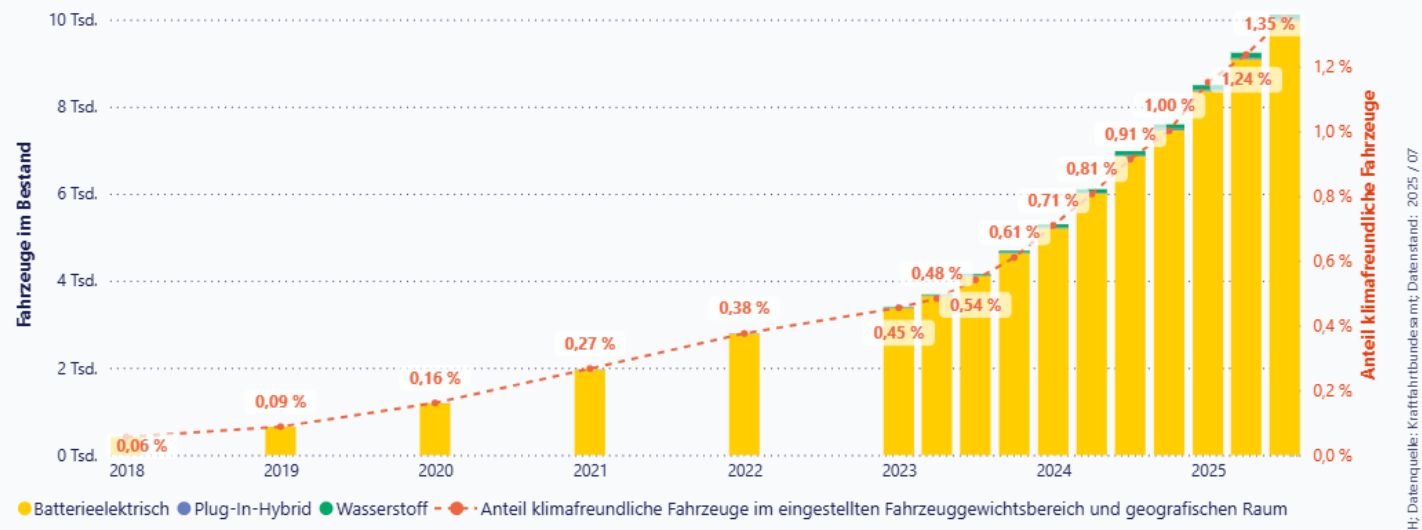
# HDV market

## FAHRZEUGBESTAND KLIMAFREUNDLICHE LKW UND SATTELZUGMASCHINEN IN DEUTSCHLAND

Fahrzeuggewichtsklassen: Mittel (mehr als 3,5t bis 12t zGG), Schwer (mehr als 12t zGG)

Antriebstechnologien: Plug-In-Hybrid Diesel, Plug-In-Hybrid Sonstige Kraftstoffe, Wasserstoff-Verbrenner, Wasserstoff-Hybrid, Wasserstoff-Brennstoffzelle, Batterieelektrisch

Bundesländer: alle Bundesländer ausgewählt



Source: NOW

3

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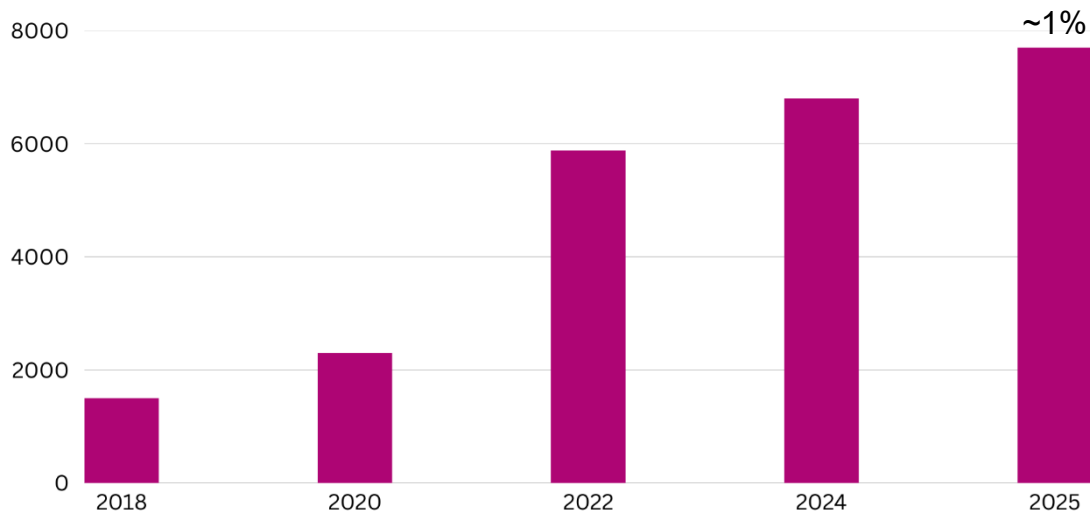
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# HDV market

## Estimated number heavy CNG/LNG trucks (>12 t)

01.01. of the respective year



Source: NOW

4

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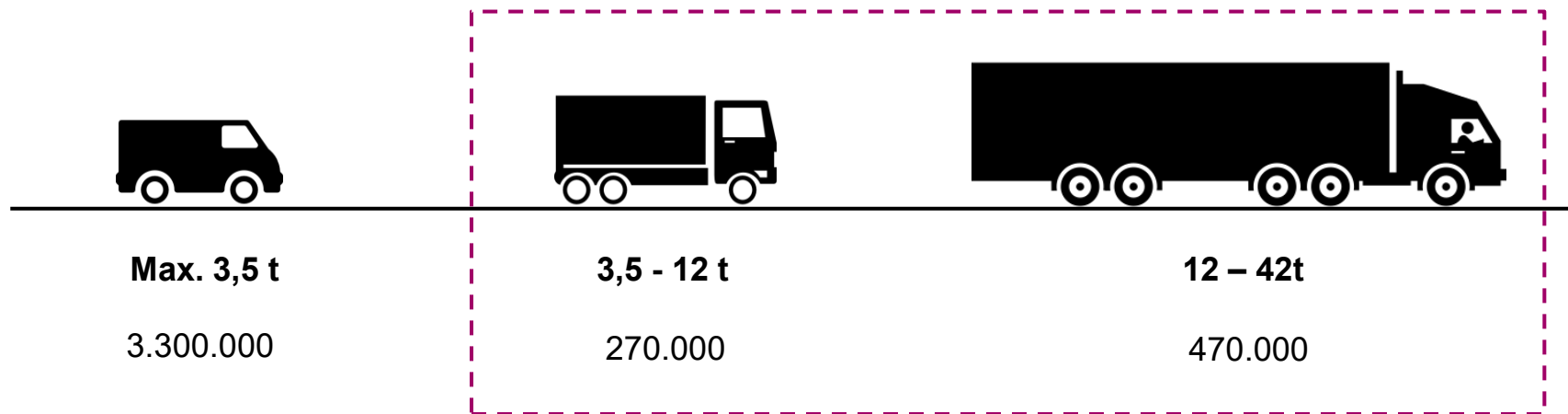
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# HDV market

Around **98 %**  
of heavy duty vehicles  
run on diesel.



# Market Survey 2025

## Sentiment and Data Basis on Investment Readiness in Alternative Powertrains for Heavy-Duty Transport

**Objective:** Identify the biggest challenges and opportunities faced by users regarding the sustainable transformation of their vehicle fleets

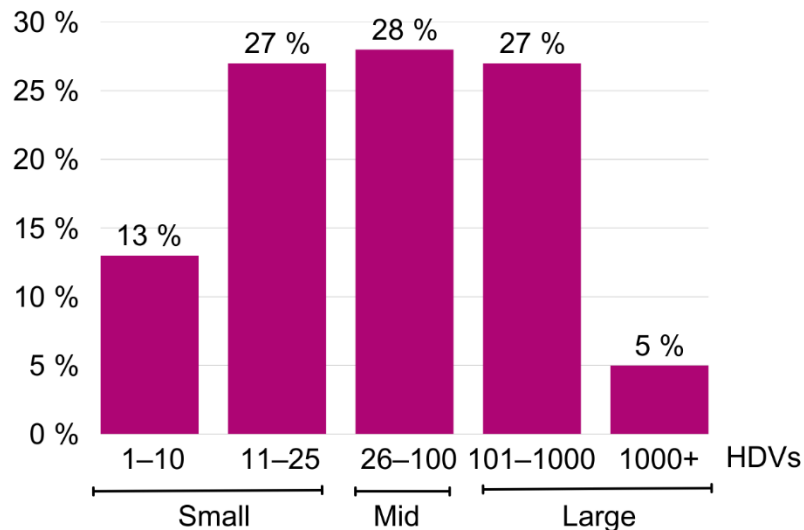
**Survey Subjects:** Logistics companies in Germany; 82 responses (not representative)

-> **Find publication here:** <https://www.dena.de/infocenter/marktbefragung-zur-anschaffung-nachhaltiger-lkw-in-der-logistik/>

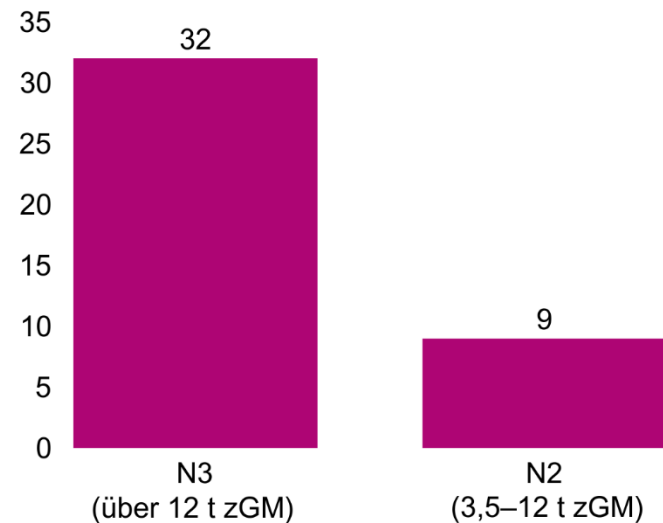


# Participant profile

What is the total size of your vehicle fleet?

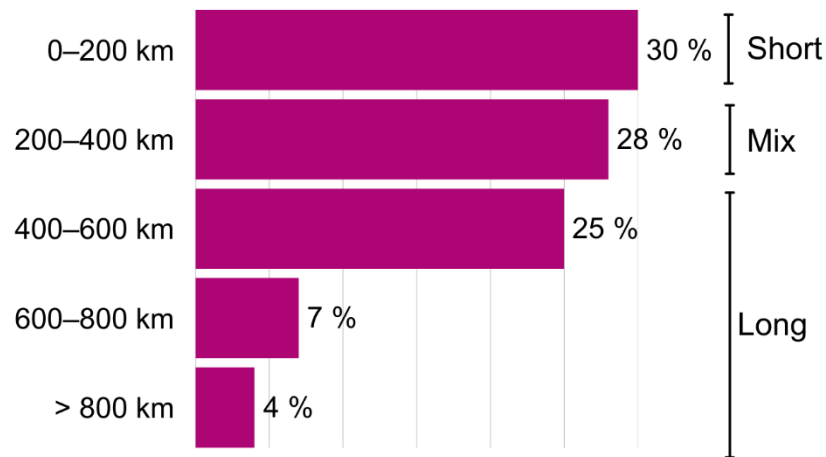


Approximately how many vehicles do you own in each category (median)?



# Participant profile

What percentage of your daily mileage is made up by each part of your route profile?



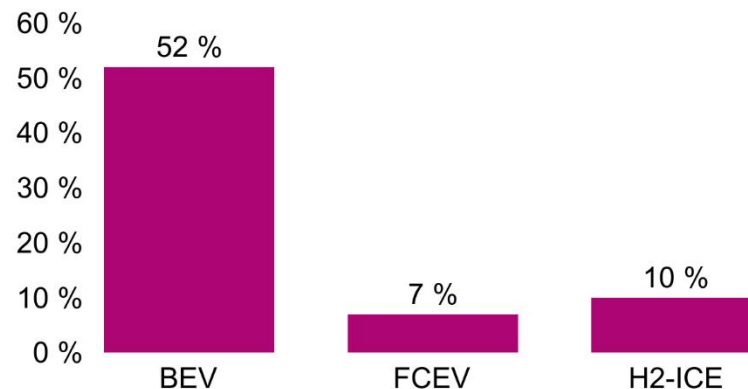
# Zero Emission Vehicles

**Do you have concrete plans to invest in zero-emission vehicles within the next seven years?**



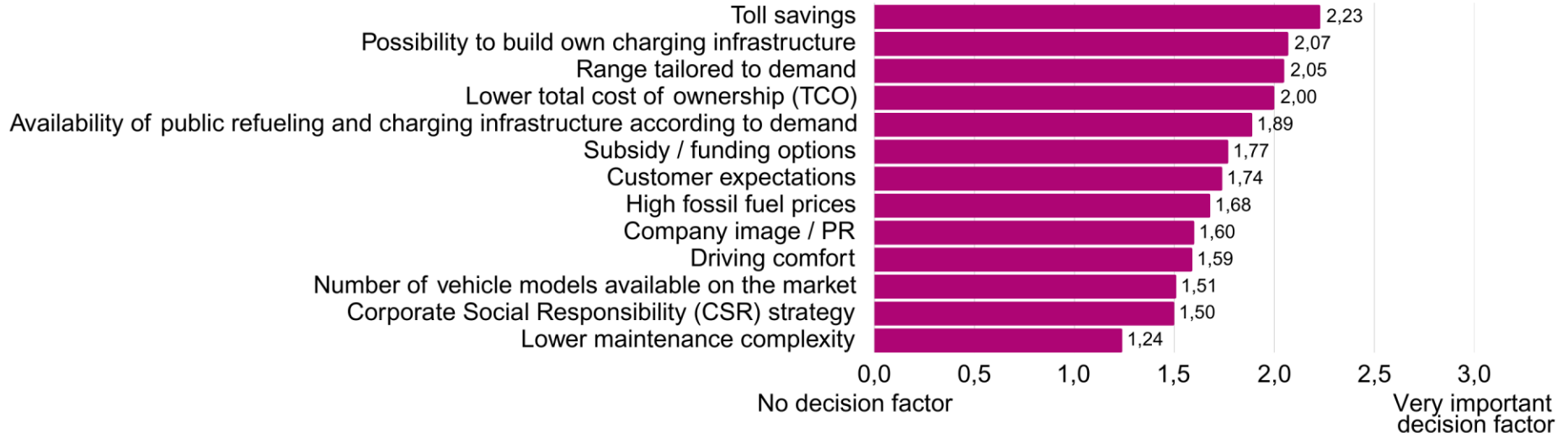
**Broken down by propulsion type:**

The chart illustrates the share of 82 companies that plan to invest in the respective propulsion technologies.



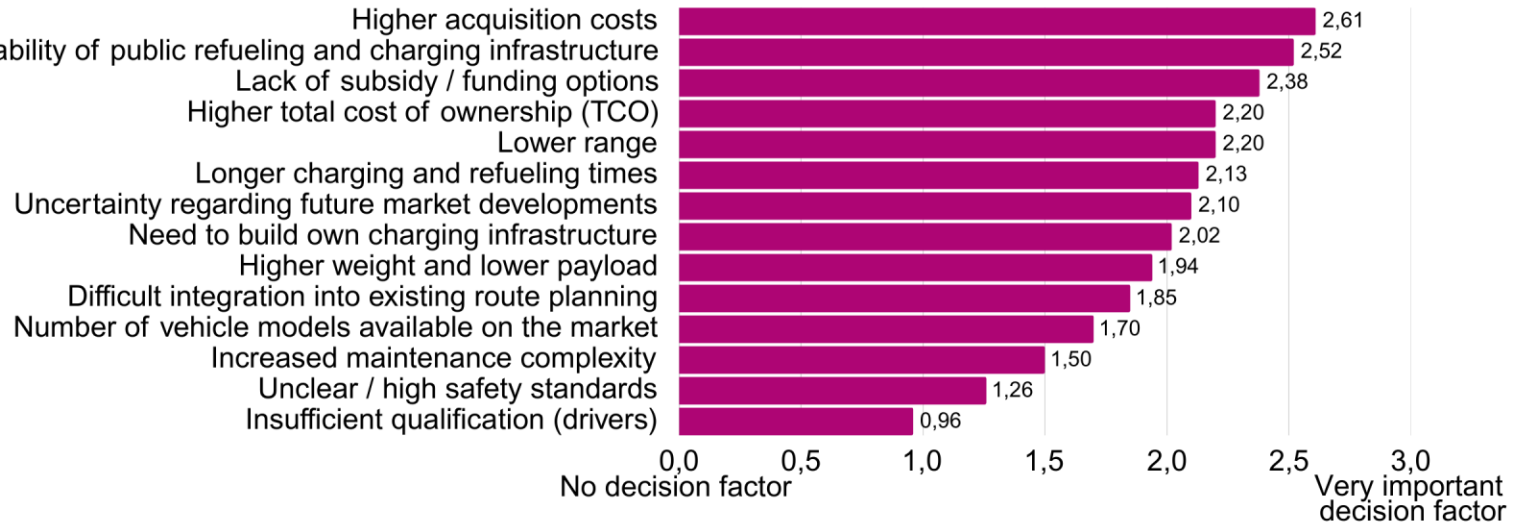
# Zero Emission Vehicles

What reasons, in your view, currently support a future investment by your company in zero-emission vehicles?



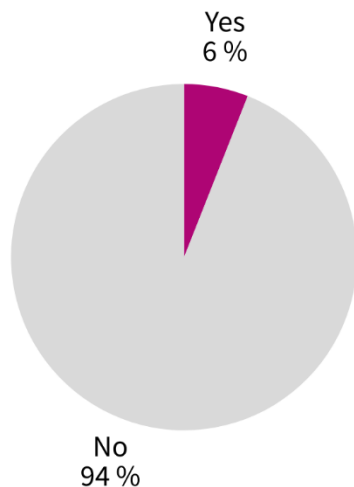
# Zero Emission Vehicles

What reasons, in your view, currently argue against a future investment by your company in zero-emission vehicles?



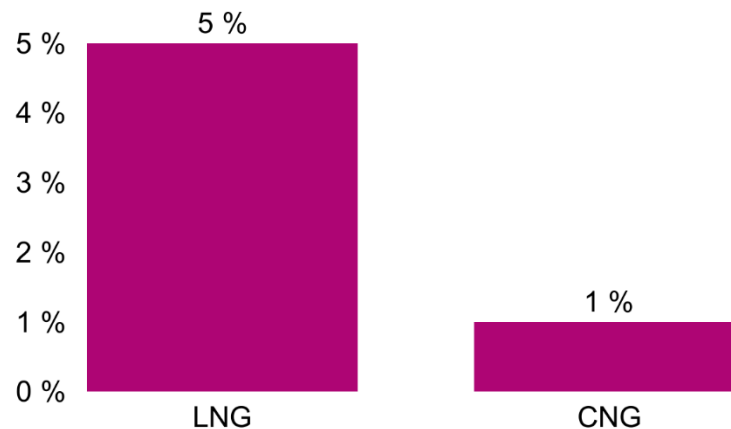
# Gas vehicles

**Do you have concrete plans to invest in gas-powered vehicles within the next seven years?**



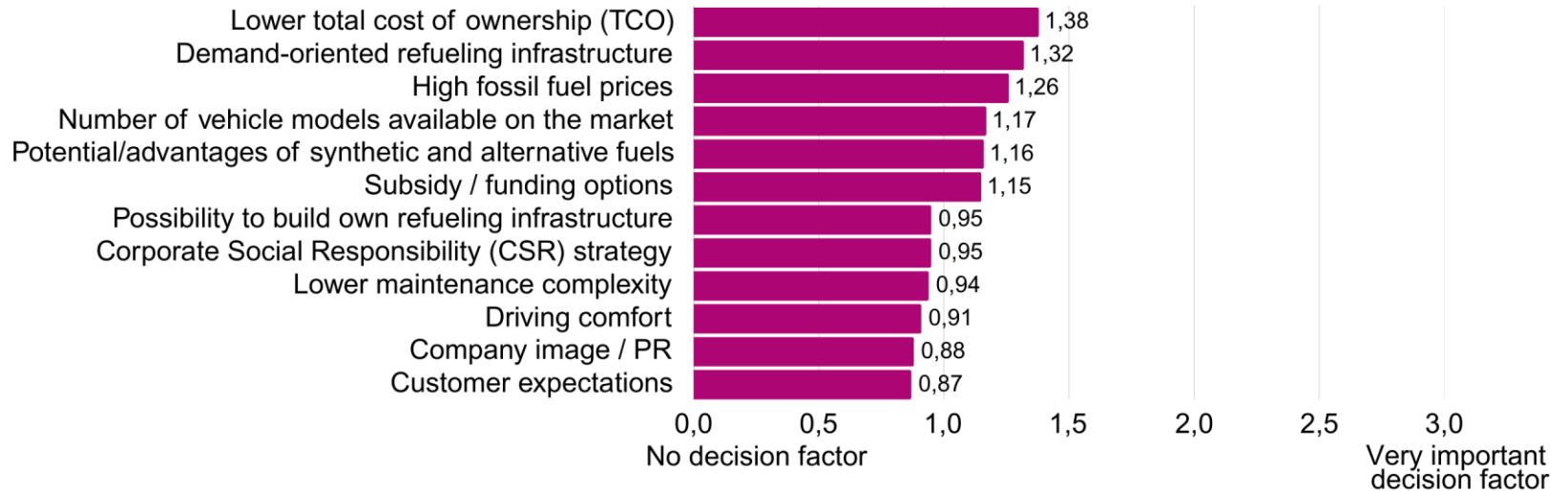
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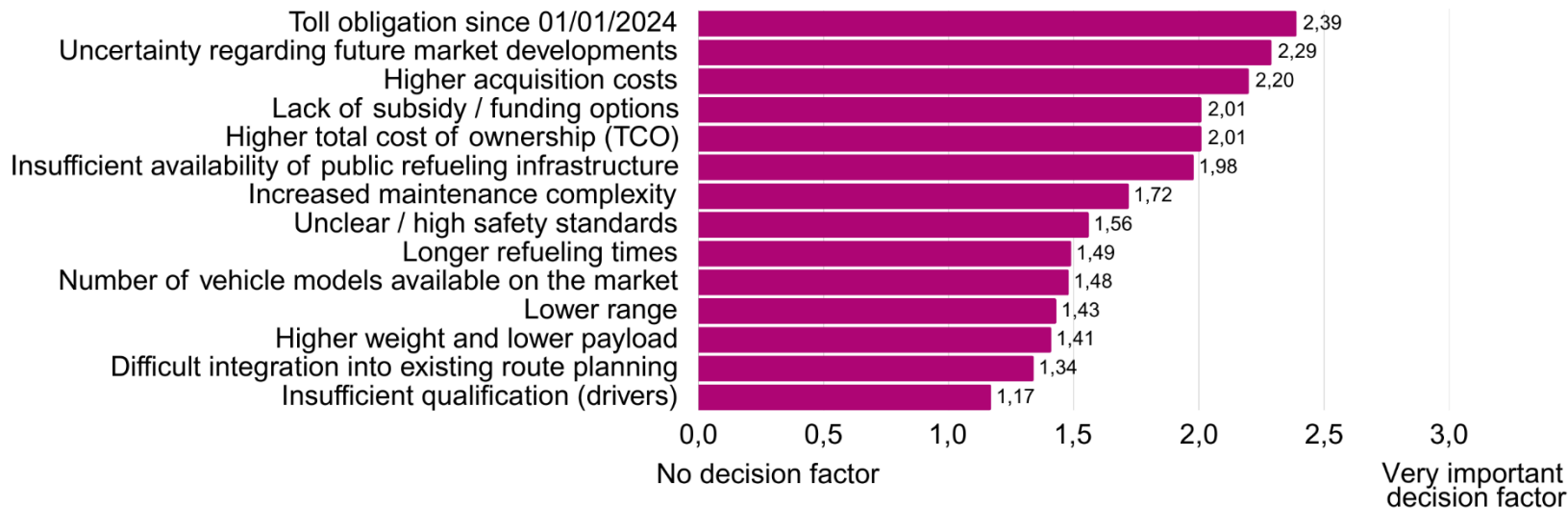
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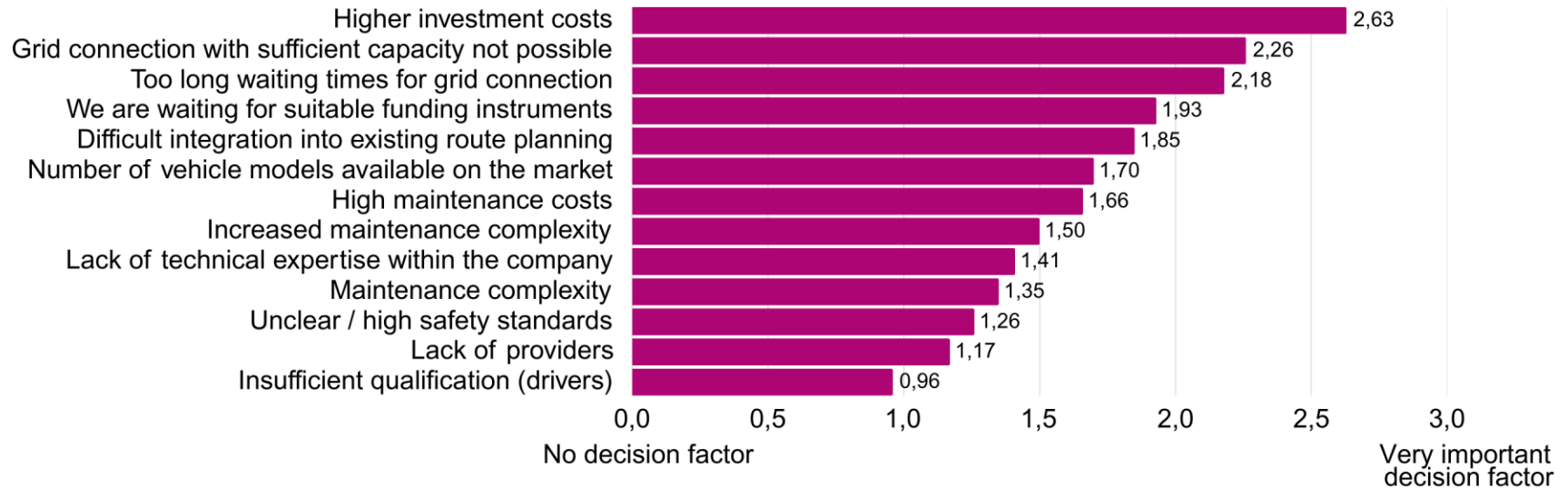
# Gas vehicles

What reasons, in your view, currently argue against a future investment by your company in gas-powered vehicles?



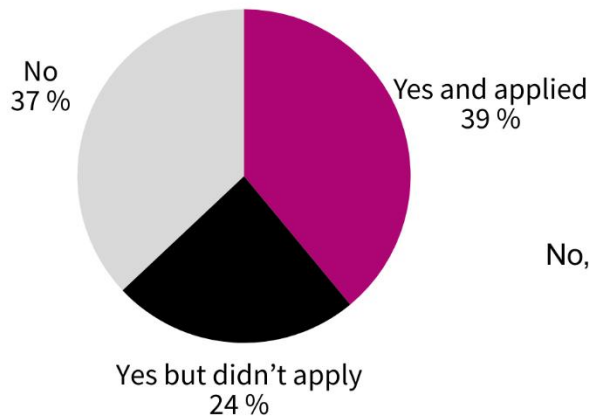
# Charging infrastructure

What factors do you consider obstacles to building your own charging infrastructure?

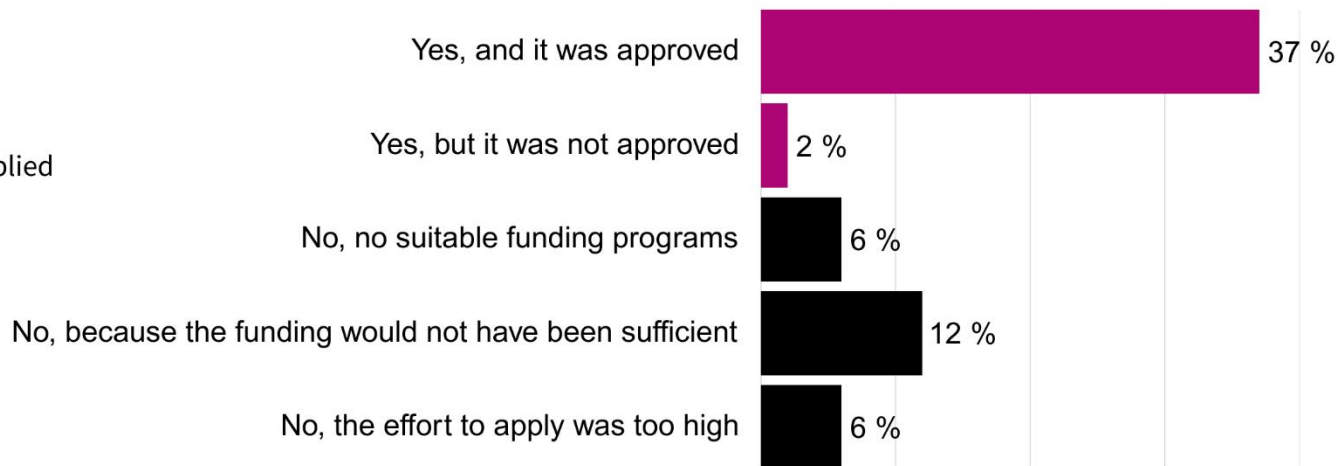


# Charging infrastructure

Have you ever looked into government grants for the acquisition of charging infrastructure?



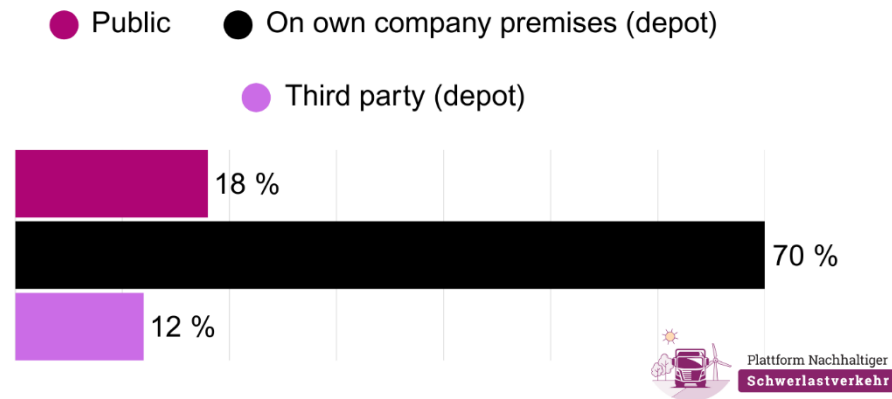
Have you ever applied for government funding for the acquisition of charging infrastructure?



# Charging infrastructure

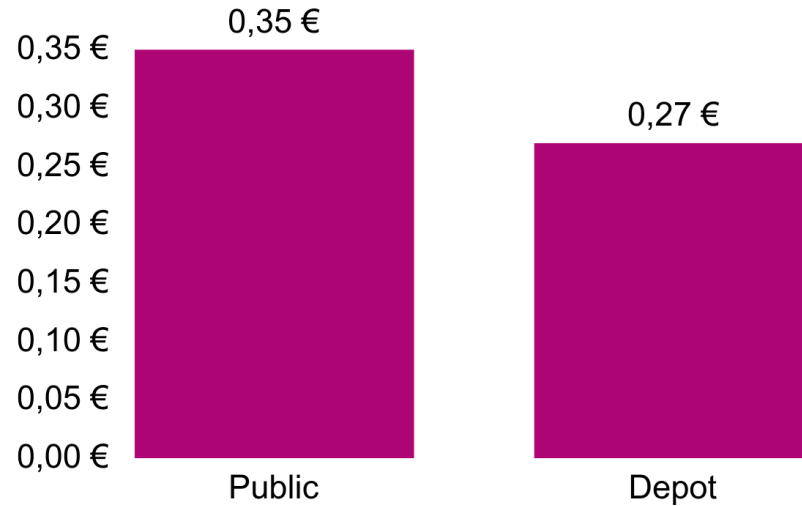
**What percentage of your electricity demand do you plan to cover in the future using which charging options?**

The values indicate the average share of vehicles that companies plan to charge.



# Charging infrastructure

Up to what price per kWh would you be willing to charge at a charging point?



# First conclusions

- Impairment/enabling factors:
  - Toll -> TCO
  - Acquisition costs
  - Public charging infrastructure
- Technology focus of logistics companies predominantly electric

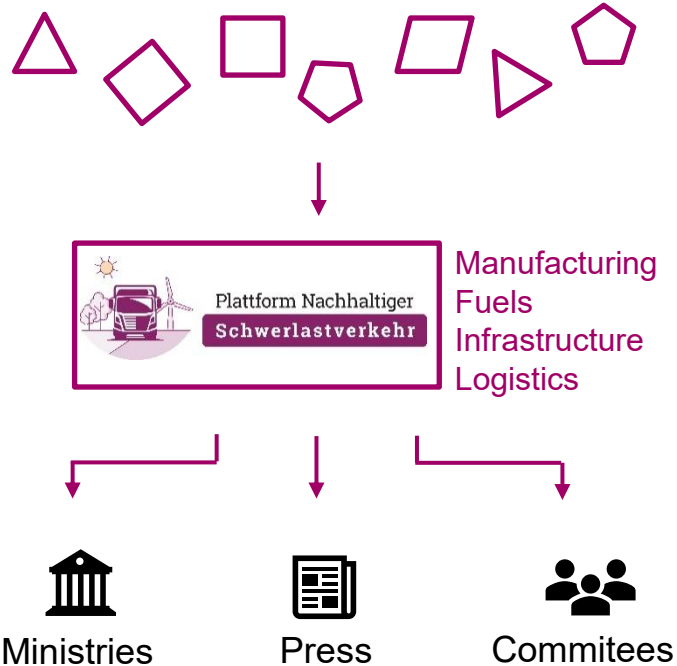
The extension of the toll exemption for emission-free trucks until June 30, 2031

Masterplan Charging Infrastructure 2030

Source: NOW



# What we do



**Collect** obstacles, market developments, and demands of the transport and logistics industry...

**analyse, debate** with partners

...and **communicate** to relevant stakeholders.

# Our services

## Publications

- Expansion of charging infrastructure for electric trucks
- Opportunities and risks of HVO100
- Investment readiness of logistics companies in low and zero emission vehicles
- Low carbon fuels for HDVs
- Energy taxation on fuels



## Events

- Parliamentary evenings and breakfasts
- Political 1:1 meetups
- Panel discussions
- Conference appearances



# PNS-Team



**Chair:**  
**Kristina  
Haverkamp**  
dena-CEO



**Co-chair:**  
**Steffen Joest**  
Head of Industry,  
Mobility &  
Energyefficiency



**Axel Blume**  
Team Lead  
Mobility



**Mel Goering**  
Senior Expert  
Mobility



**Marilyn Sadu**  
Expert Mobility



**Christian  
Kürschner**  
Senior Expert  
Mobility

Support from  
various  
departments  
of dena:

electricity grids

bioenergy

hydrogen  
tech

comms  
& press

policy and  
strategy



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**Thanks und dankeschön**

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