

# Charging insights from the Norwegian EV market

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Norwegian EV Association



# Norwegian EV Association

- Non-profit NGO
- Over 120,000 members (EV drivers)
- 50 employees

**Our goal:**

**Electrify transport as fast as possible!**



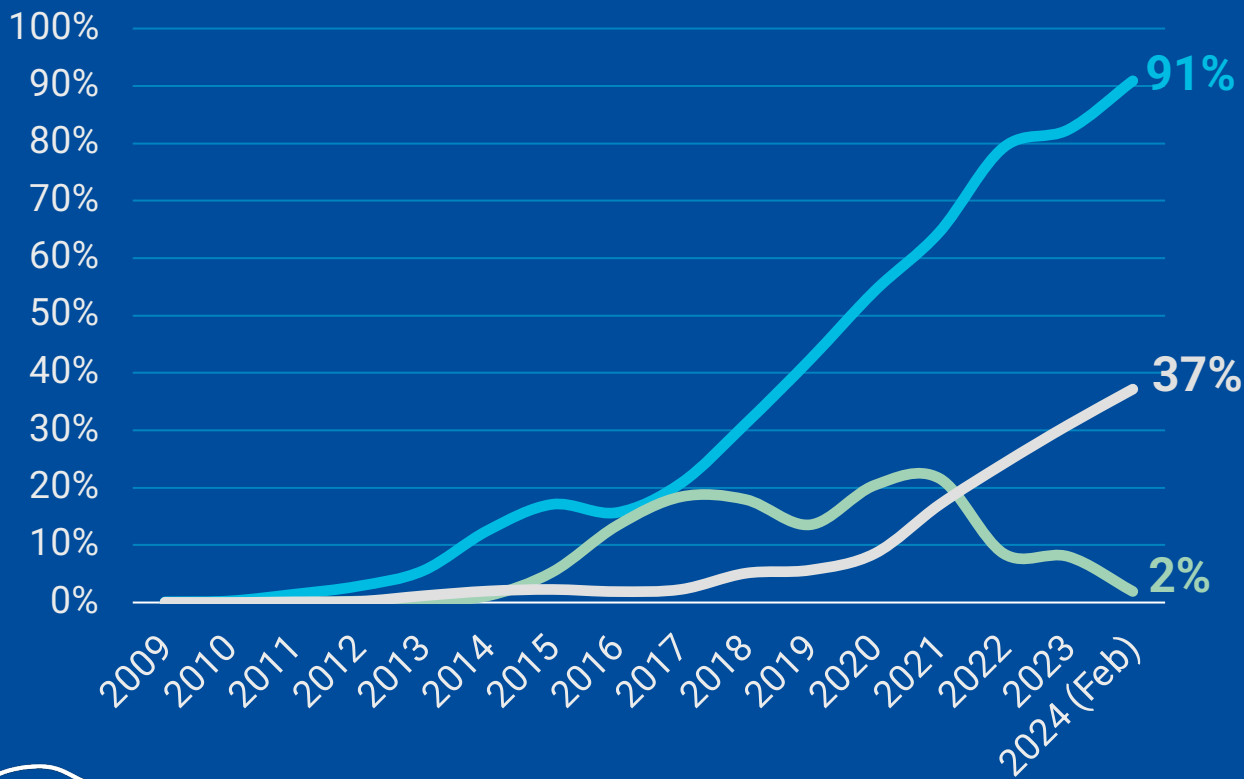


# Agenda

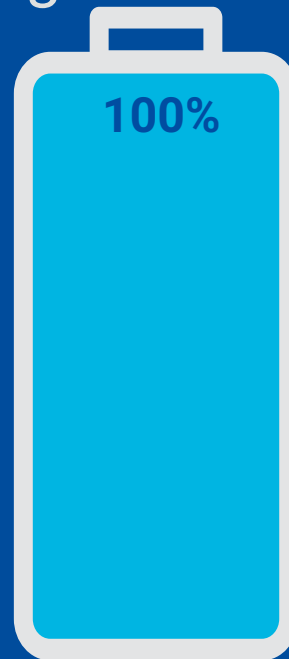
- Norway's EV status and development
- Charging and challenges
- Looking ahead
- Questions



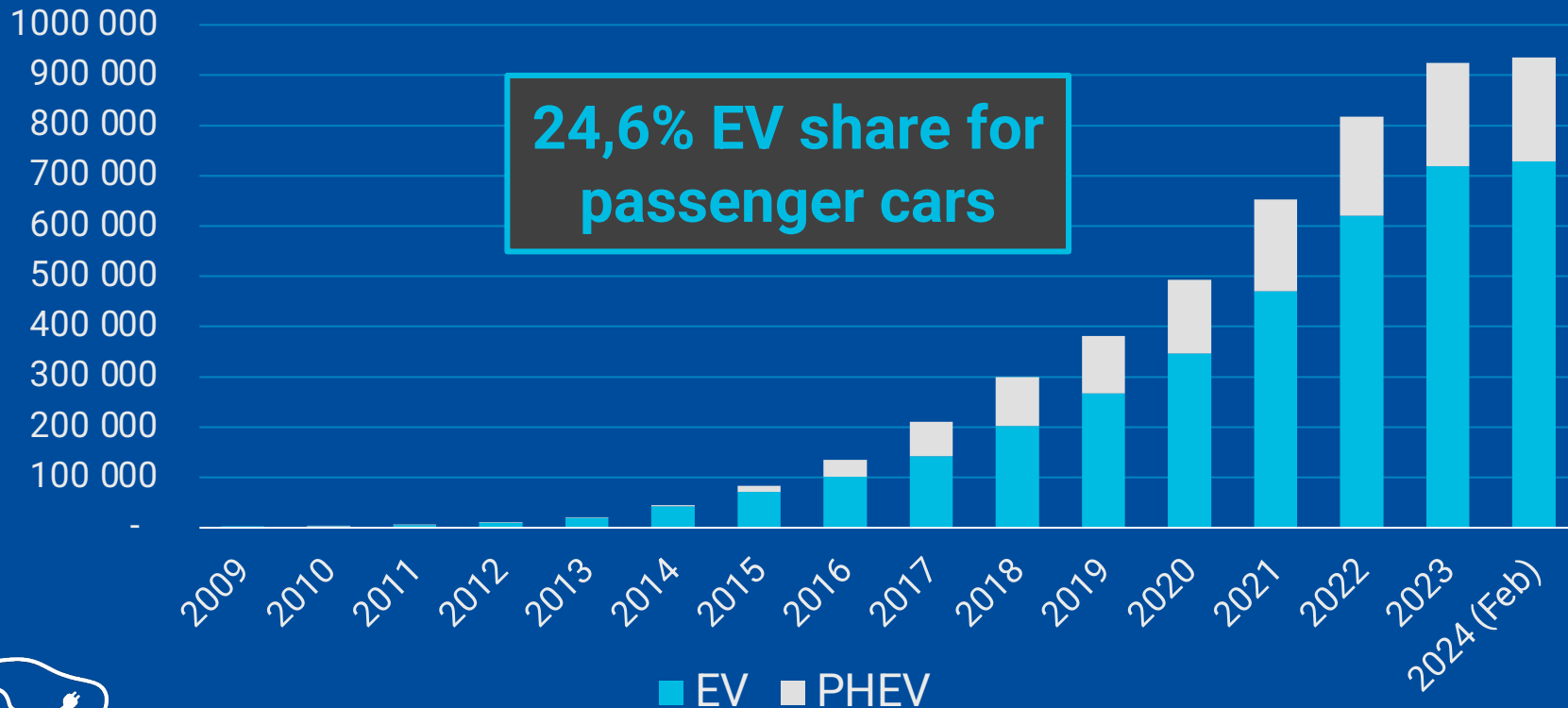
# Market share new sales



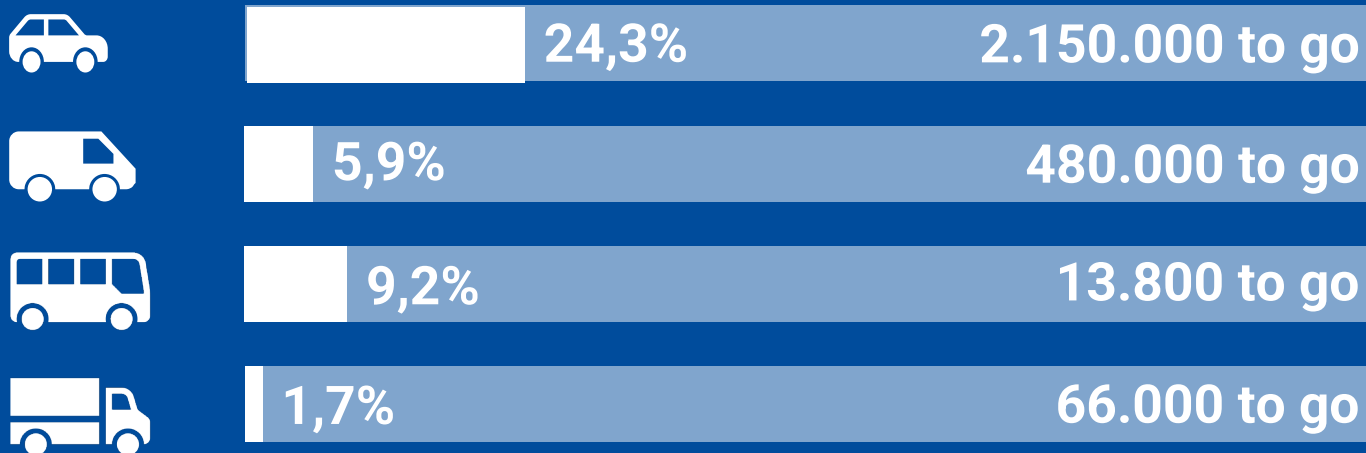
Target for 2025:



# 730 000 EVs in Norway (+205.000 PHEVs)



# Are we there yet?



# HDV

- 1059 vehicles
- 1,5% of all HDV
- 628 new in 2023
- 12% market share



# Charging



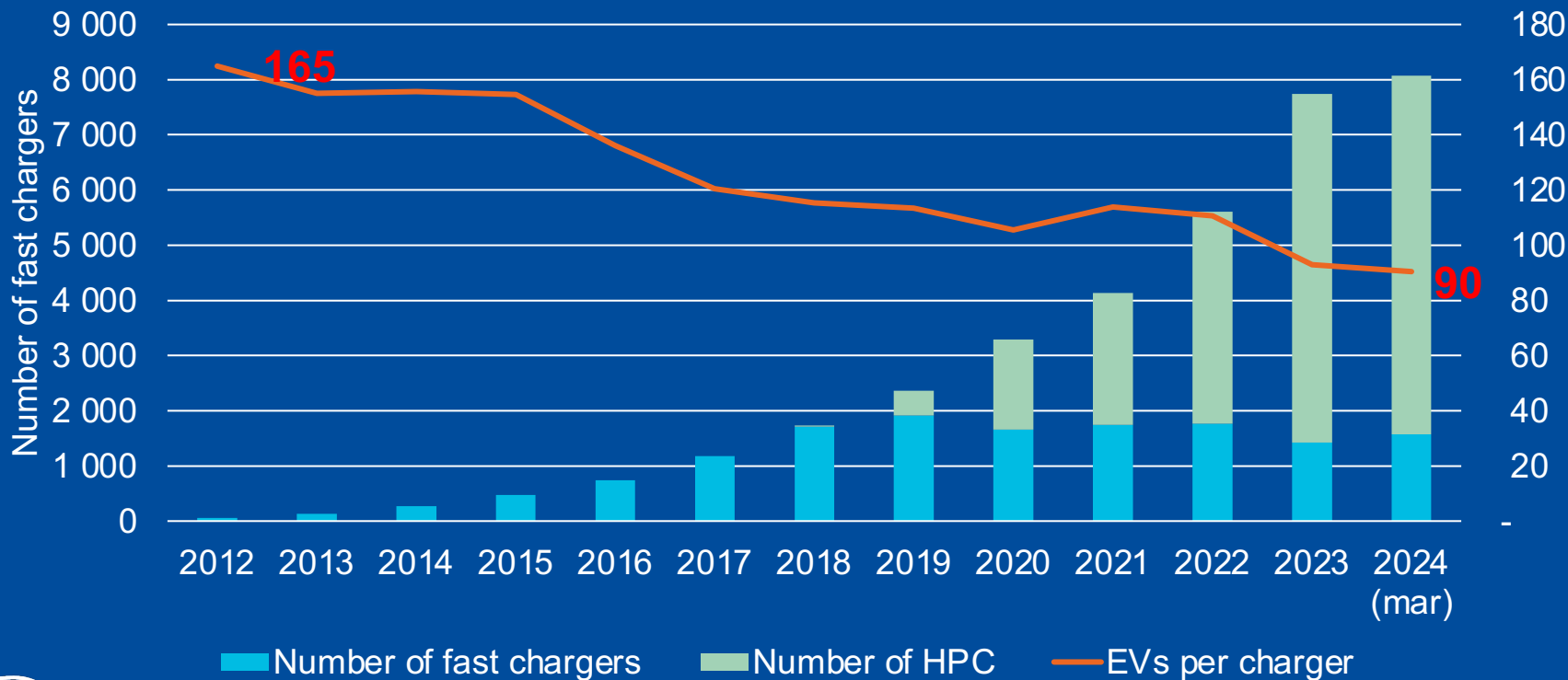


# 8000 fast chargers

- 1500 new in 2022
- 2000 new 2023
- Estimate 2000 new this year



# Fast chargers and EVs



# Initial network

## 2011-2014

- About 5 million euro public financial support
- Up to 100 % of installation cost
- No support for use or maintenance

## Location

- Mainly decided by the private market
- Some areas were prioritized



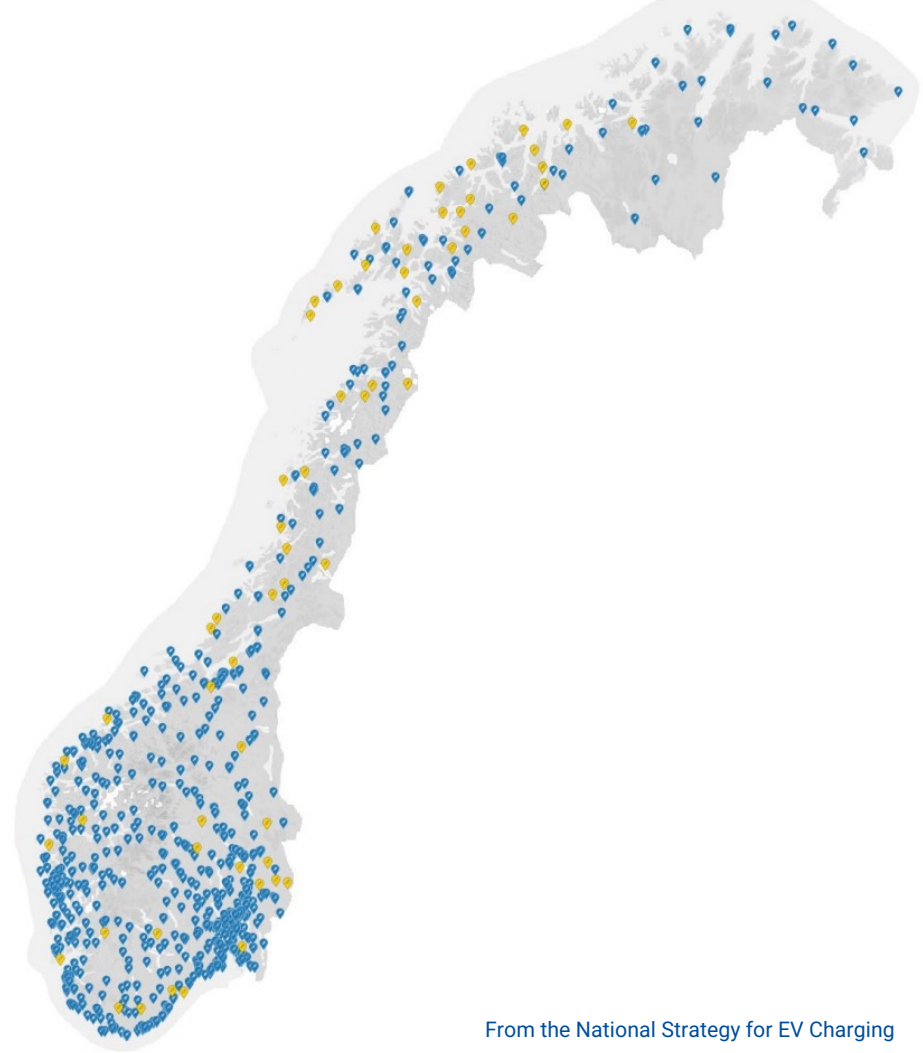
# 2015: A national plan

- Public tenders for initial network
- Fast charging stations every 50 km on all main roads (7 500 km)
- Small stations (50 kW\*2+AC)
- Mostly finished by end of 2017



# Further support

- Finnmark i 2020
- Rural areas 2022



- In total about 35 million Euros
- Estimate : around 5 % of fast chargers
- E.g mainly private sector



# Challenges



# Still need more

- With expected EV growth we need 9000 fast chargers by end of 2025
- And 10-14 000 by 2030





# Charging for HDV

- Target for new sales: 100 % in 2030

- 1500-2500 HPCs before 2030

- Today we only have a handful of stations..



# Let's do it again..

- HDV charging:
- Support for both depot charging and public fast charging location (on predefined areas)



# Other challenges

- Charging too difficult
- Universal design
- Charging at home for everyone
- Grid connections
- Area



## Solved

- ✓ «Charging law» for apartment associations / condominiums
- ✓ New buildings must be «charging ready»
- ✓ Mandatory card payment

## Partly solved

- ❖ New standard on universal design (on it's way)
- ❖ (Minor) adjustments to grid regulation
- ❖ Area – partly solved itself mainly due to economic interests





# Looking ahead

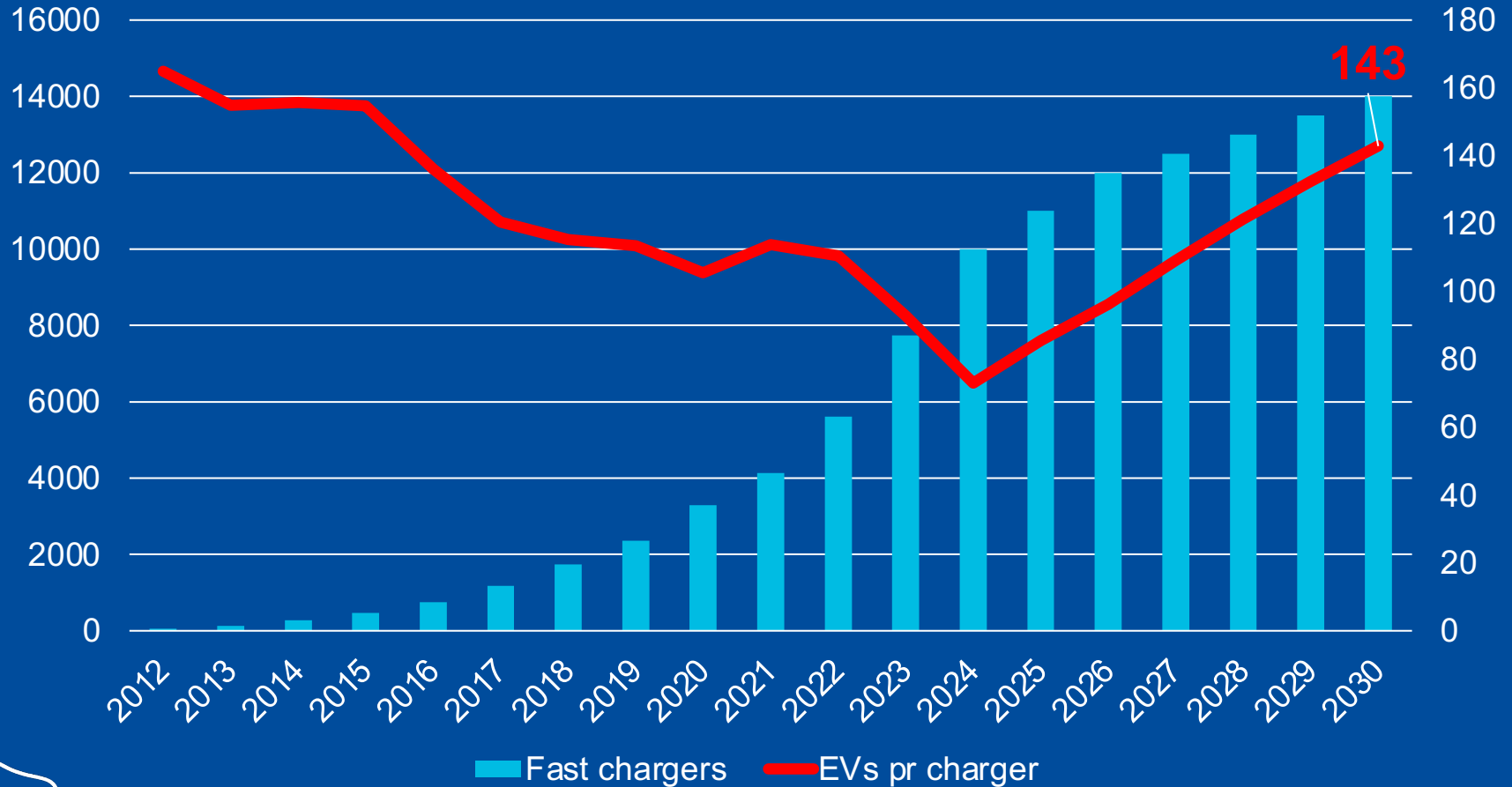


# Cities..

- Charging on street level + Fast charging hubs
- Oslo municipality offers support for chargers for taxi, company cars and HDV



# Fast chargers and EVs – projectory





# We expect more EVs pr charger due to..

- Larger batteries
- Higher charging speed
- Better user interface / payment methods
- Better hardware (less faulty)



4-5 APRIL 2024

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# Questions?

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