BEUC The European Consumer Organisation

The Consumer Voice in Europe

Electric cars: cheaper, more sustainable and long lasting

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1) ELECTRIC CARS ARE CHEAPER

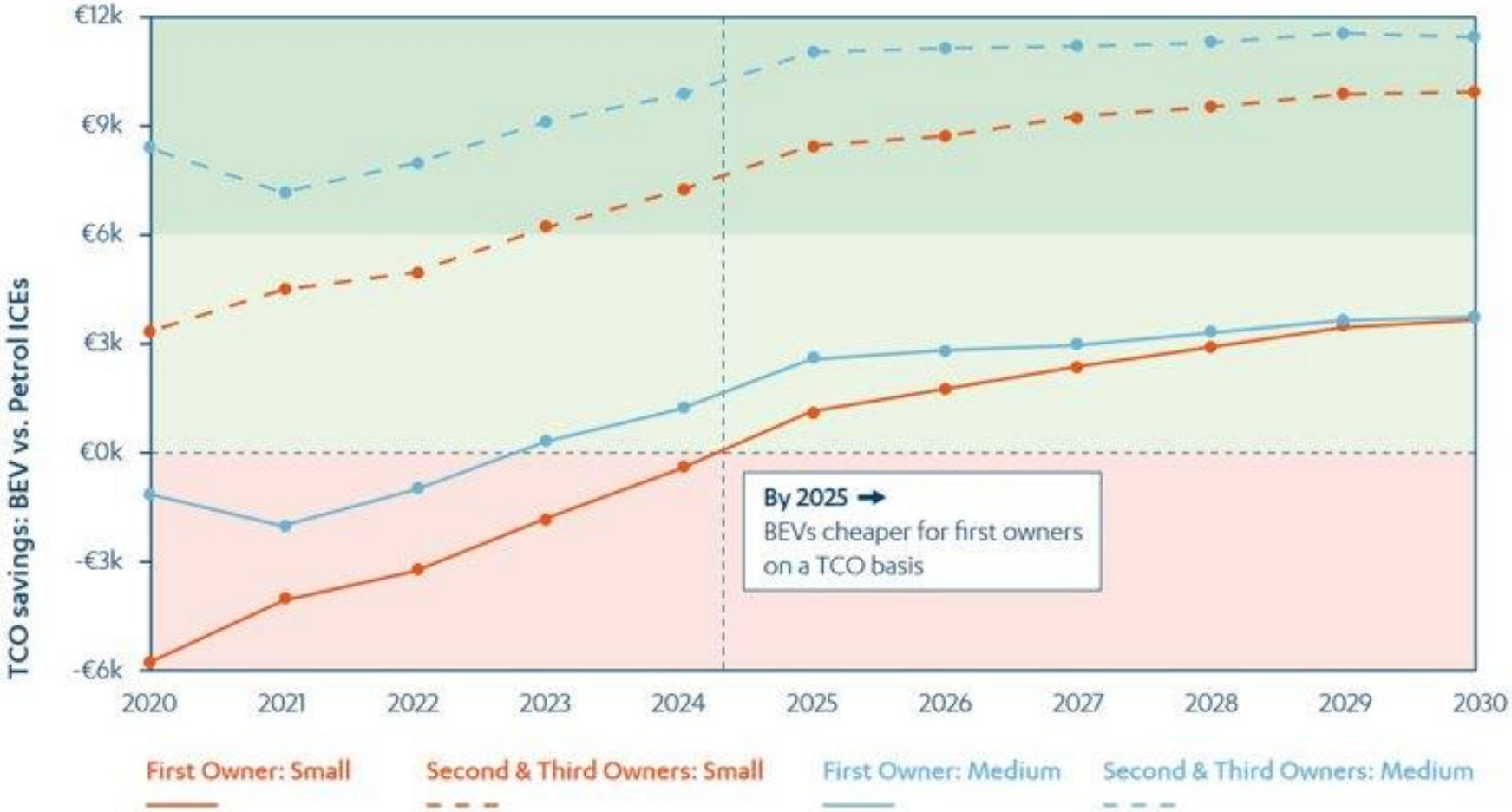


Figure 4: BEV lifetime TCO savings over a Petrol ICE for a medium car bought new by year.

1) ELECTRIC CARS ARE CHEAPER (EVEN IN CRISIS TIME)

A Flemish citizen with an ENGIE electricity contract (EASY Indexed – 1 Year – **Prices in September 2022** – "bi-horaire" meter 35c€/kWh or 24c€/kWh), **driving their car which uses 17kWh/100km:**

If he charges at home:

- **6,5 – 7,5€/100km if he charges during the day (depending on network tariffs)**
- **4,5 – 5,5€/100km if he charges at night (depending on network tariffs)**

If he were to charge at a fast-charging station only (Fastned) 83c€/kWh

- **14,11€/100km**

If he were to charge at a low-speed public charging station only – 51c€/kWh

- **8,67€/100km**

For a petrol car running on 6L/100km (1,7210€/L), he would pay 10,32€/100km. For a diesel car using 5L/100km (2,021€/L), he would pay 10,1€/100km

2) ELECTRIC CARS ARE CHEAPER, EVEN WHEN MADE MORE SUSTAINABLE

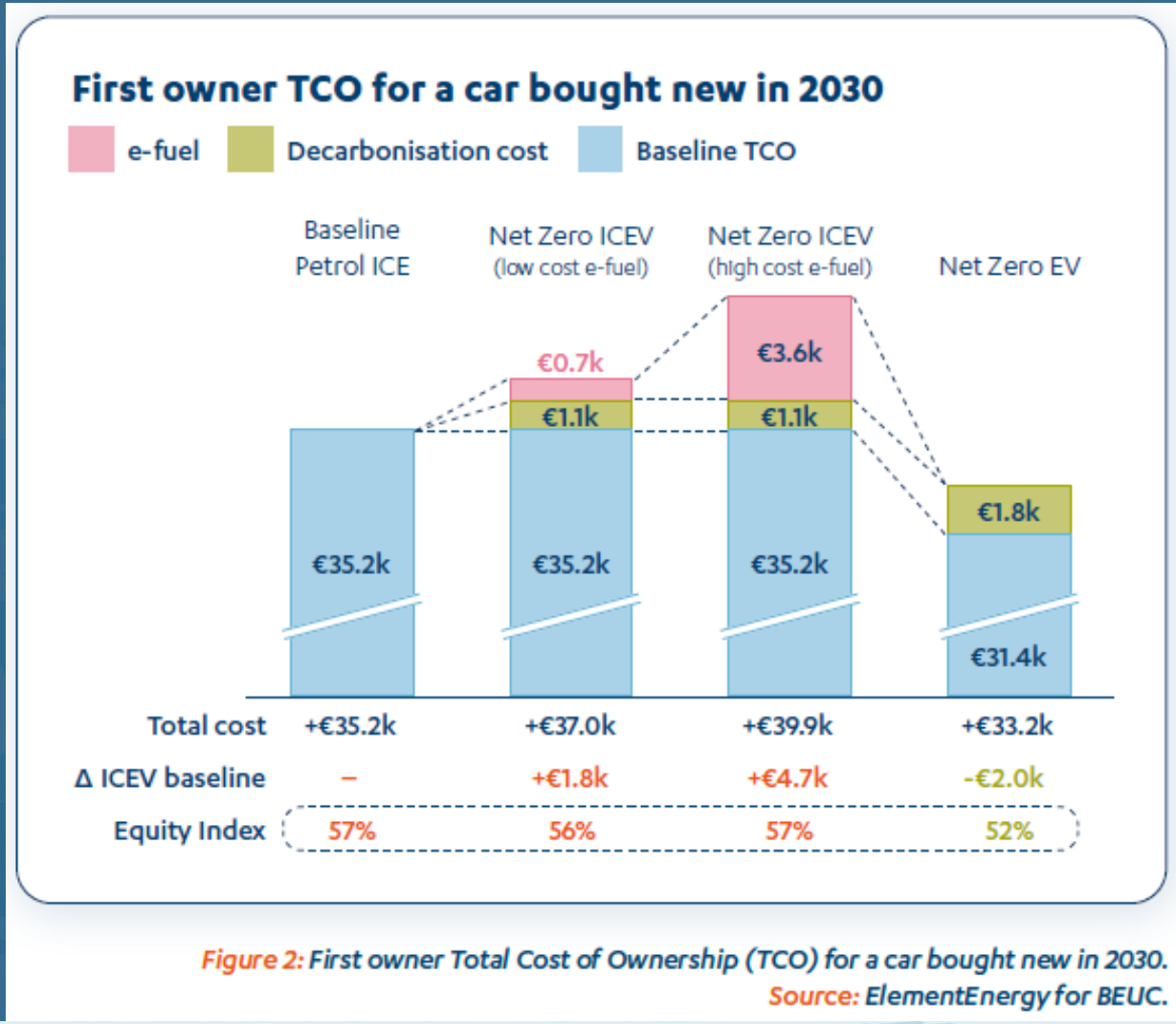
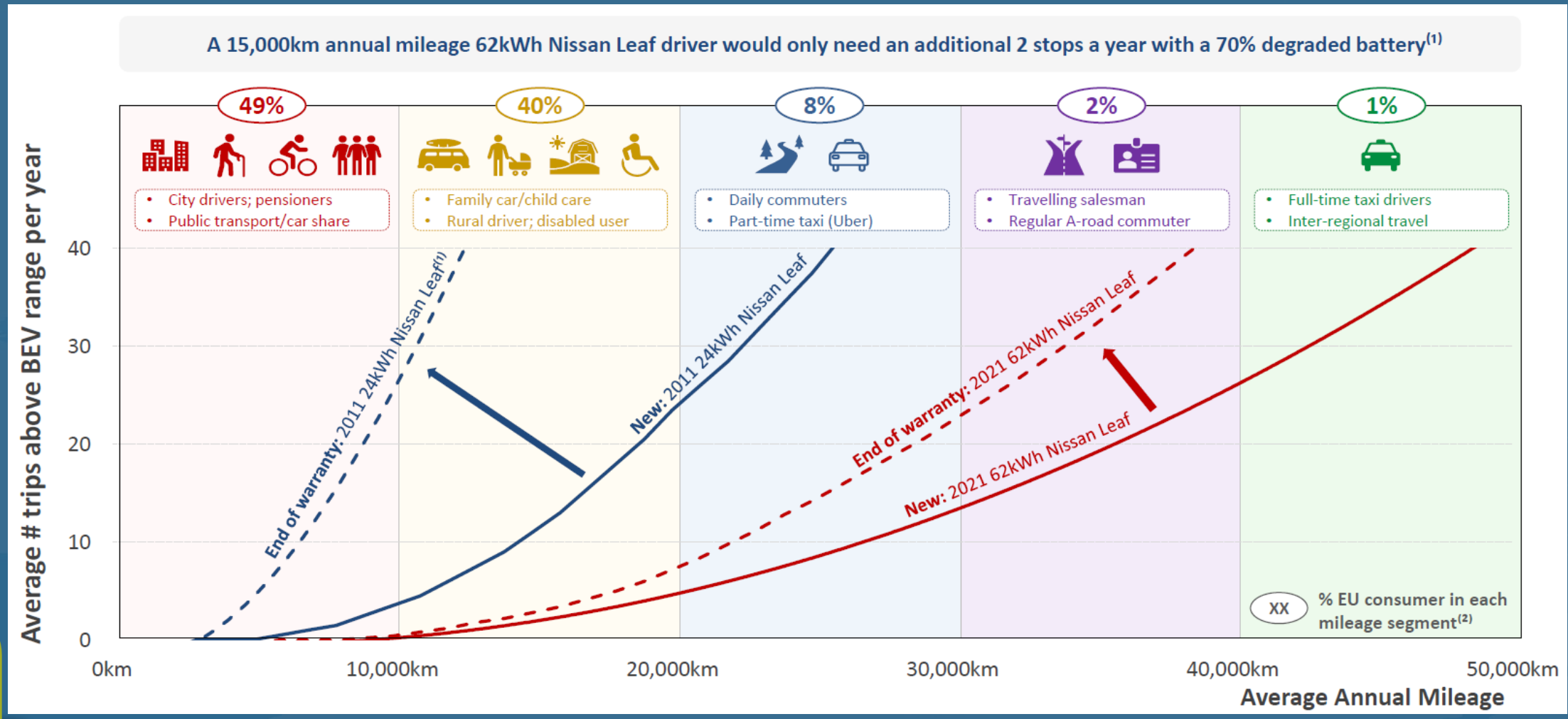


Figure 2: First owner Total Cost of Ownership (TCO) for a car bought new in 2030.
Source: ElementEnergy for BEUC.

3) ELECTRIC CARS ARE LONG-LASTING



BONUS: ELECTRIC CARS DO FIT CONSUMERS' NEEDS

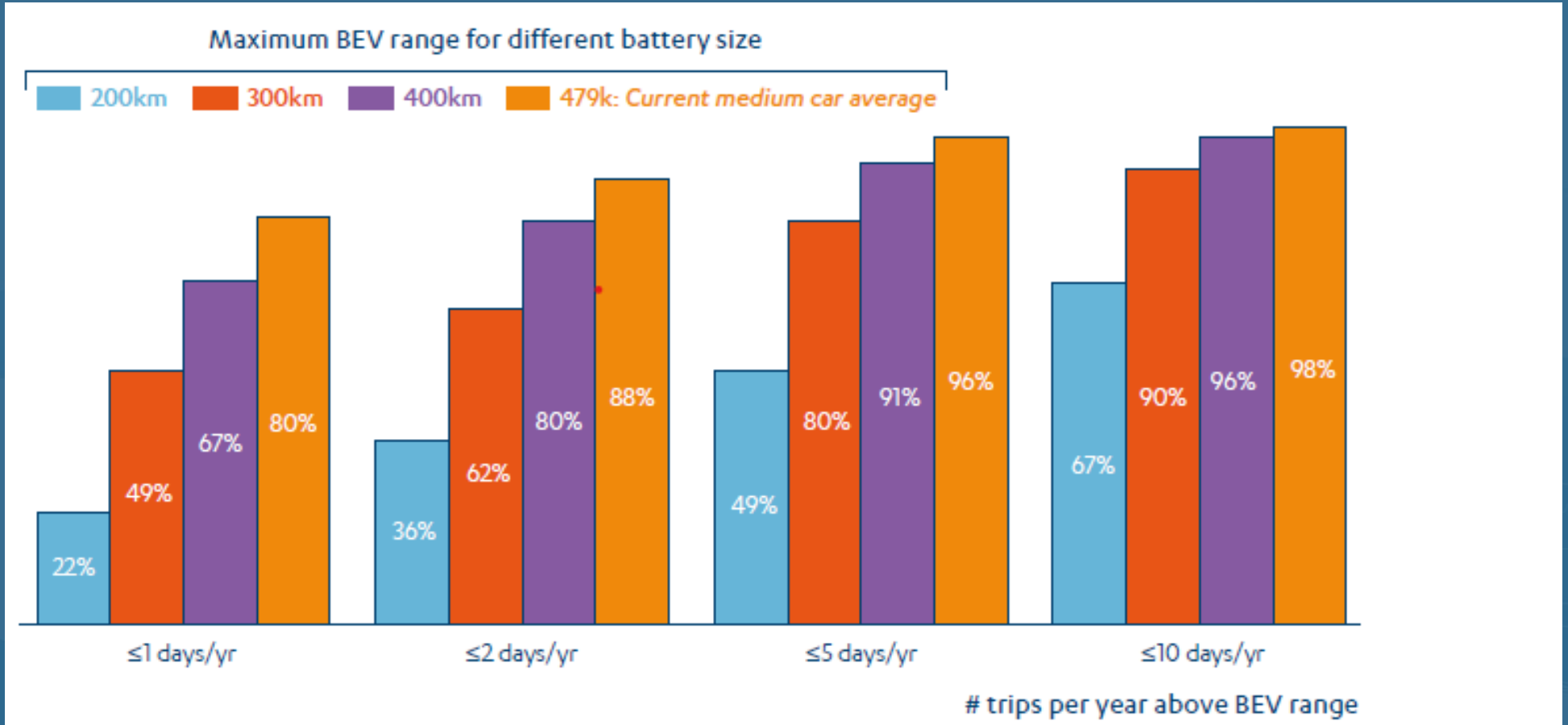


Figure 7: Estimated days consumers surpass their maximum BEV Worldwide Harmonised Light Vehicles Test Procedure (WLTP) range[19] for different battery range scenarios.

POLICY RECOMMENDATIONS

1. Help consumers tackle high upfront costs ➔ New financial schemes
2. Accelerate the deployment of EVs in the 2nd hand market
3. Shield consumers from skyrocketing electricity prices and reward flexibility use of electricity
4. Move car costs from CAPEX to OPEX to untap financial and CO2 savings from EVs
5. Close the regulatory loopholes
    - Target EV efficiency and promote smaller EVs
    - Set eco-design requirements for EVs and battery durability requirements
    - Provide consumers with reliable information on fuel / electricity consumption
6. Invest in alternatives (public transport, carsharing, cycling lanes, …)