

# Proposals to accelerate the electrification of the automotive sector in Spain

Only **8.5% of the vehicles produced in Spain in 2024** were electrified (fully electric and plug-in hybrids), far from the pace needed to meet the PNIEC 2030 targets.

## What limits the increase in electrification of Spain's automotive sector?

- 1. Slow adoption rate of electric vehicles** compared to the objectives of the PNIEC 2030.
- 2. Fragmented charging infrastructure** with high rates of inactivity, especially outside major urban centers.
- 3. Bureaucratic and uneven taxation and incentives**, which limit access for households and SMEs.
- 4. Dependence on critical raw materials** (lithium, nickel, manganese) without a national strategy for extraction and sustainable recycling.
- 5. Regulatory uncertainty and lack of predictability**, which makes long-term industrial investment difficult.
- 6. Unfair international competition** arising from fiscal and environmental differences with other countries.
- 7. Lack of technological standardization** in batteries, software, and charging systems, which increases costs and limits interoperability.
- 8. Underutilization of the electric grid**, still without a framework that allows bidirectionality (V2G) and smart storage management.
- 9. Skills gap and labor retraining** in new industry needs and digitalization.
- 10. Uneven charging infrastructure** and with lower density in rural areas, reducing consumer confidence.

## How to overcome these barriers?

### Idea 1

Promote a **national strategy for sovereignty in raw materials**.

### Idea 2

Create a **shared roadmap** providing regulatory and industrial certainty.

### Idea 3

**Harmonize European taxation** using carbon-footprint criteria.

### Idea 4

Unify battery and software standards **to reduce costs** and improve interoperability.

### Idea 5

**Enable V2G bidirectionality** and launch pilots in public and private fleets.

### Idea 6

Promote a **national plan for training and reskilling** in electric mobility.

### Idea 7

Deploy an **interoperable, intelligent, and homogeneous charging network** across the country.

### Idea 8

Guarantee a **just transition with job protection** and industrial **innovation**.

These are the conclusions of the working group **"Facing the future: the challenge of the electric automotive sector"**, promoted by Alinnea and dedicated to identifying bottlenecks and proposing measures to accelerate the electrification of the automotive industry and strengthen Spain's industrial resilience and competitiveness.

The full report is available here:  
[bit.ly/48L0nqn](https://bit.ly/48L0nqn)

