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Charging Infrastructure in Navarra: Investments and management

31 May 2023 | Mechelen

**Gobierno
de Navarra**  **Nafarroako
Gobernua**

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- ▶ Legal and regulatory framework and objectives
- ▶ Achievements
- ▶ Present and future challenges

Legal and regulatory framework and objectives

1. REGIONAL LAW ON CLIMATE CHANGE AND ENERGY TRANSITION (LFCCTE):

- ▶ Planning and Governance
- ▶ Climate change mitigation
- ▶ Climate change adaptation
- ▶ Sustainable administration
- ▶ Additional provisions

2. NAVARRA 2030 ENERGY PLAN (Chapter 5)

- ▶ Boost the transition in transportation towards "zero-emission vehicles"
- ▶ Promote an adequate policy and legislative development
- ▶ Support cooperation and collaboration with other regions

Legal and regulatory framework and objectives

OBJECTIVES:

1. **Market penetration of EV**

- ▶ Subsidies for Installing Charging Points in Municipalities, Enterprises and Domestics
- ▶ Charging points location on the map
- ▶ Updated information on chargers status
- ▶ Local Entities Charging Points coordinated management

2. **Public access Charging Infrastructure deployment**

- ▶ Actions in white areas
- ▶ Administrative barriers

Legal and regulatory framework and objectives

OBJECTIVES

3. Tourism in Navarre with a minimal carbon footprint
 - ▶ EV charging in tourist sites

4. Emblematic Charging Infrastructure in the region with minimum carbon print
 - ▶ Pilot projects implementation

Achievements

1. Subsidies and tax reduction for Local Entities, enterprises and private individuals:

▶ MOVES III

- ▶ Municipalities: 30% in CP (70%)
- ▶ Enterprises: up to 55%
- ▶ Individuals: up to 80%

▶ Tax deduction: up to 19%



Achievements

2. Deployment of a CP network for public and private use

- ▶ 30CP for internal /external use

3. CP visor: Number, type, location on the map

[EV charging map](#)



Achievements

4. Collaborative agreement with Pamplona municipality

- ▶ Agreement signed to concede the CP
- ▶ Interoperability agreement among the owners



CONVENIO ENTRE EL AYUNTAMIENTO DE PAMPLONA Y EL GOBIERNO DE NAVARRA PARA LA IMPLANTACIÓN DE PUNTOS DE RECARGA PARA VEHÍCULO ELÉCTRICO

En Pamplona,

REUNIDOS

De una parte, don Mikel Irujo Amezaga, Consejero del Departamento de Desarrollo Económico y Empresarial, cargo para el que fue nombrado por el Decreto Foral 5/2021, de 3 de febrero, publicado en el Boletín Oficial de Navarra nº 27 de 4 de febrero de 2021.

Achievements

5. CP implementation management (NavarraTeRecarga)

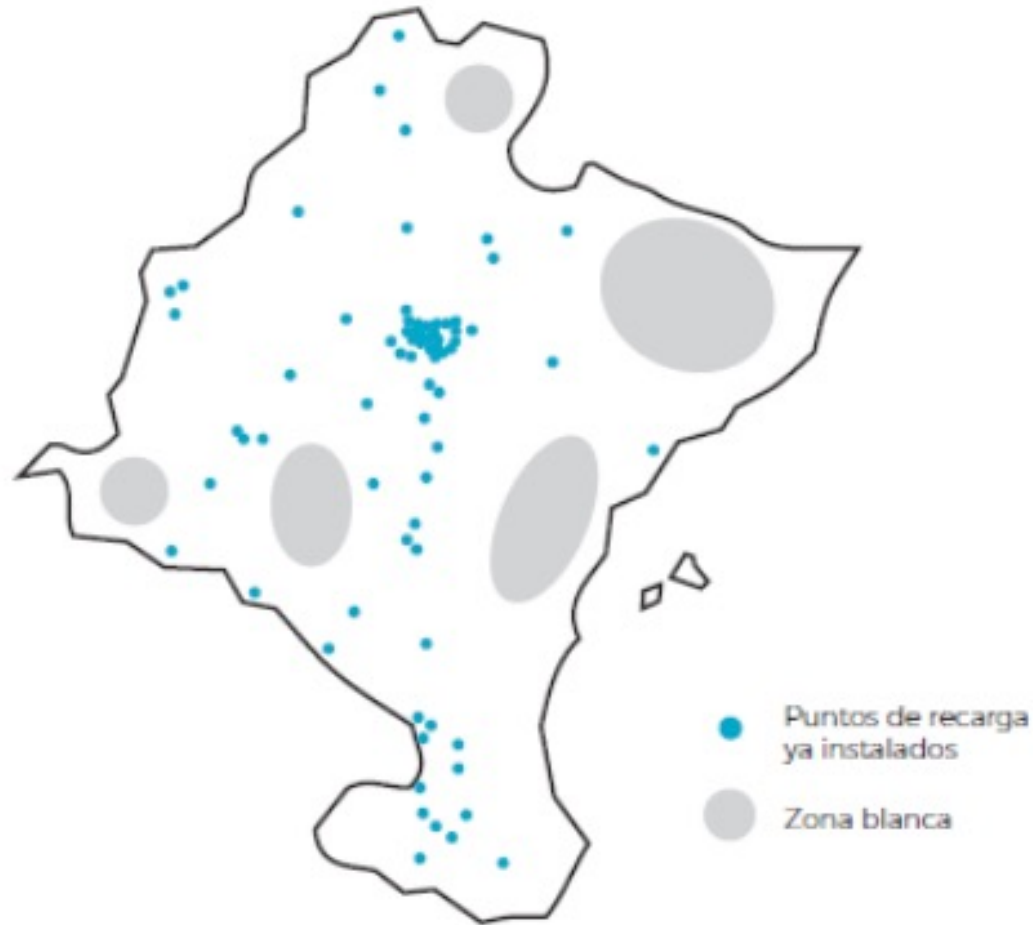
- ▶ Government CP Management
- ▶ Availability for Local Entities
- ▶ NavarraTeRecarga app Vs market management

6. CP at tourist sites



Present and future challenges

1. White Zones and Ultra-fast charging



The Government of Navarre will carry out direct actions to install recharging points in the identified white zones in order to reach the target of one recharging point every 50km.

Need for more ultra-fast recharging stations on highways, etc.

Present and future challenges

2. Collaboration Agreements with Local Entities

- ▶ Compatibility of CP managers
 - OCPP compliant EV Charging management platform
- ▶ Concession of spaces and/or recharging points

3. Interoperability for payment at public CP; one app for different management platforms and agreed prices.



Present and future challenges

4. Energy Agency, Climate Change Office:

- ▶ Navarra Energy Plan 2030 compliance
- ▶ NG energy efficiency targeting
- ▶ Electric Infrastructure (CP,PV)

5. Integration of the goals into SECAPs:

- ▶ Transferring the electric mobility model objectives, subsidies for Local Entities through SECAPS and other specific plans

Present and future challenges

6. Technology and efficient use of energy in Charging Points:

- ▶ Integration in 5G networks.
- ▶ Digital Twin:
 - ▶ Compilation of the entire current database, including other DB for efficient future behaviour . AI
- ▶ Efficient use of energy:
 - ▶ Mix Photovoltaic Installation
 - ▶ Electrical Power Balancing
 - ▶ Batteries
 - ▶ SIF



Thank you!

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