



E-mobility III – Integrating e-mobility into city planning  
14 December 2021

# INTEGRATION OF E-MOBILITY IN PAMPLONA.

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CENER



**Interreg  
Europe**



European Union | European Regional Development Fund



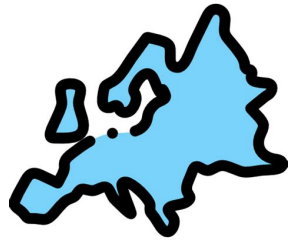
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# Legal Requirements and Commitments



**The Paris Agreement: entry into force**

**Requirements**

Ratification by **55** parties of 192 Parties to the Convention



**BOE**  
LEGISLACIÓN CONSOLIDADA

Ley 7/2021, de 20 de mayo, de cambio climático y transición energética.

Jefatura del Estado  
«BOE» núm. 121, de 21 de mayo de 2021  
Referencia: BOE-A-2021-8447



**El Gobierno de Navarra contempla una ley de cambio climático y transición energética**

«La consejera de Desarrollo Rural y Medio Ambiente del Gobierno Gómez, ha afirmado que su departamento contempla aprobar un proyecto de ley de cambio climático y transición energética que "sirva como herramienta indispensable para hacer frente a los retos de futuro y de apoyo al horizonte verde".»

PAMPLONA, 26 (EUROPA PRESS) La consejera de Desarrollo Rural y Medio Ambiente del Gobierno de Navarra, Itziar Gómez, ha afirmado que su departamento contempla aprobar un proyecto de ley local de

**OBJETIVOS DE DESARROLLO SOSTENIBLE**

**OBJETIVOS PROPIOS**

**OBJETIVOS PROPIOS**



# Pamplona Energy balance

## ÁMBITO CIUDAD



### CONSUMO DE ENERGÍA PAMPLONA

4.551.325  
MWh en el 2018

-8,7 %  
periodo 2005 - 2018

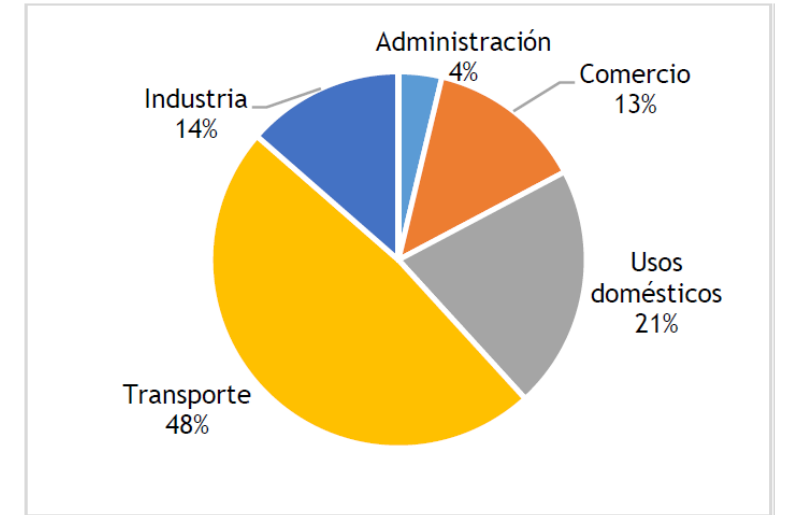
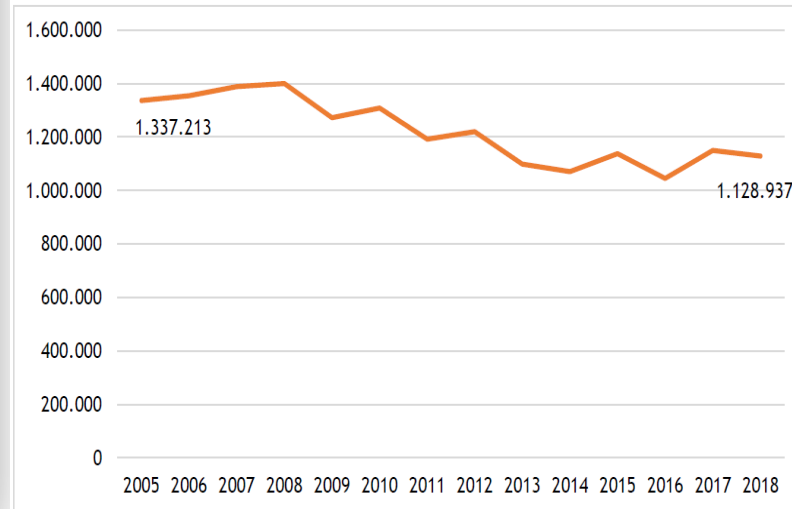
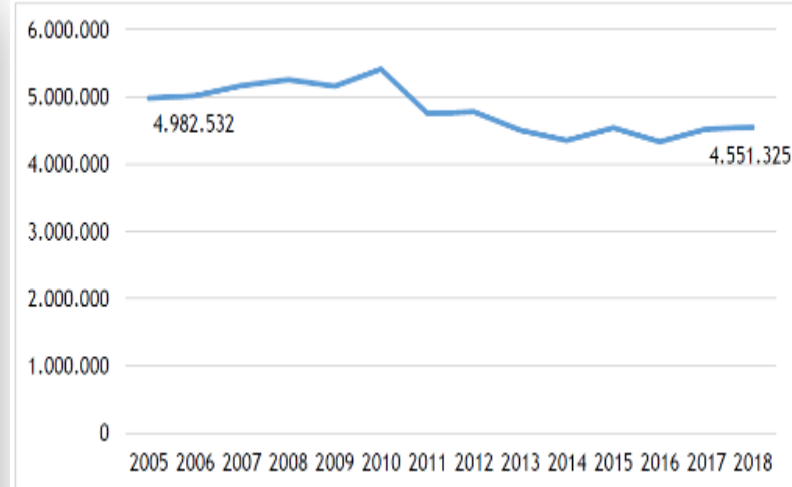
488 M€  
el año 2018



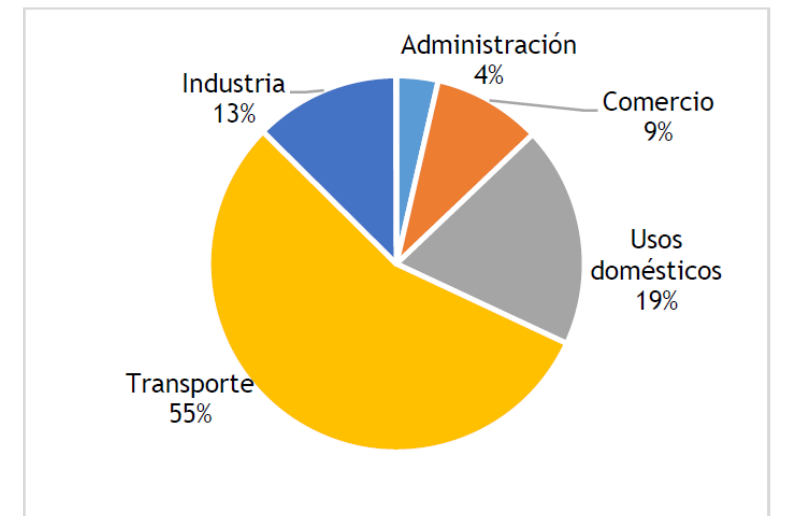
### EMISIONES DE CO<sub>2</sub>eq PAMPLONA

1.128.937  
tCO<sub>2</sub>eq en el 2018

-15,6 %  
periodo 2005 - 2018



2005



2018





# Pamplona's Strategic Objectives



SO1: REHABILITATION OF THE ENVIRONMENT

SL1. Noise

SL2. Air

SL3. Efficiency

SL4. Water



## SO3: IMPLEMENT A HEALTHY, EFFICIENT AND SUSTAINABLE MOBILITY MODEL

SL8. Sustainable, inclusive and safe mobility

SL9. Mode changes

SL10. Management of motorised mobility and air quality

SL11. Low Emission Zone

ETHICAL

energy efficiency

### SO3: IMPLEMENT A HEALTHY, EFFICIENT AND SUSTAINABLE MOBILITY MODEL

#### SL8: SUSTAINABLE, INCLUSIVE AND SAFE MOBILITY

##### GOALS

- Achieve a city with sustainable mobility and a significant reduction in the emissions related to this sector.
- Promote electrification of municipal fleet of Pamplona

##### ACTIONS

1. Mobility strategy for the city of Pamplona coordinated with the Sustainable Urban Mobility Plan (SUMP) for the Region
2. Plan of Universal Accessibility for the City
3. Development of electric vehicle charging infrastructure
4. Compliance with municipal mobility bylaws
5. Sustainable municipal fleet of vehicles Update to sustainable vehicles

#### SL9: MODE CHANGES

##### GOALS

- Encourage active mobility by promoting the use of bicycles and the creation of safe school routes.
- Reduce the use of private vehicles, encouraging mobility plans and the use of regional public transport.
- Broaden the networks of public parking for bicycles

##### ACTIONS

6. Promotion of active and non-motorised mobility as a mitigation measure
7. Incentives to promote regional public transport
8. Planning and management of occupational mobility
9. Cycle lane network
10. Availability of a shared e-bike service
11. Extend the network of secure public bicycle parking facilities and promote their use as shared bike mobility centres
12. Creation of Safe School Paths to all schools in the city
13. Promote options of sustainable mobility at tourist events

#### SL10: MANAGEMENT OF MOTORISED MOBILITY AND AIR QUALITY

##### GOALS

- Have a fleet of 500 shared electric vehicles.
- Electrification of private car parks in multi-family buildings
- 1,000 deterrent parking places

##### ACTIONS

14. Implement shared electric car service
15. Promote electrification of car parks and renewable production in multi-family buildings (electric charging stations)
16. Modify the criteria for regulating surface parking
17. Development of a network of deterrent (park-and-ride) facilities to prevent private car access to the municipality

E-mobility Lines of action



# Pamplona's E-mobility actions

## Development of EV charging infrastructure and update to sustainable vehicles



1

34 new public EV charging post have been installed in 2021



2

Fast charging station for E-taxi powered by PV



3

Fast charging station for E-taxi powered by PV

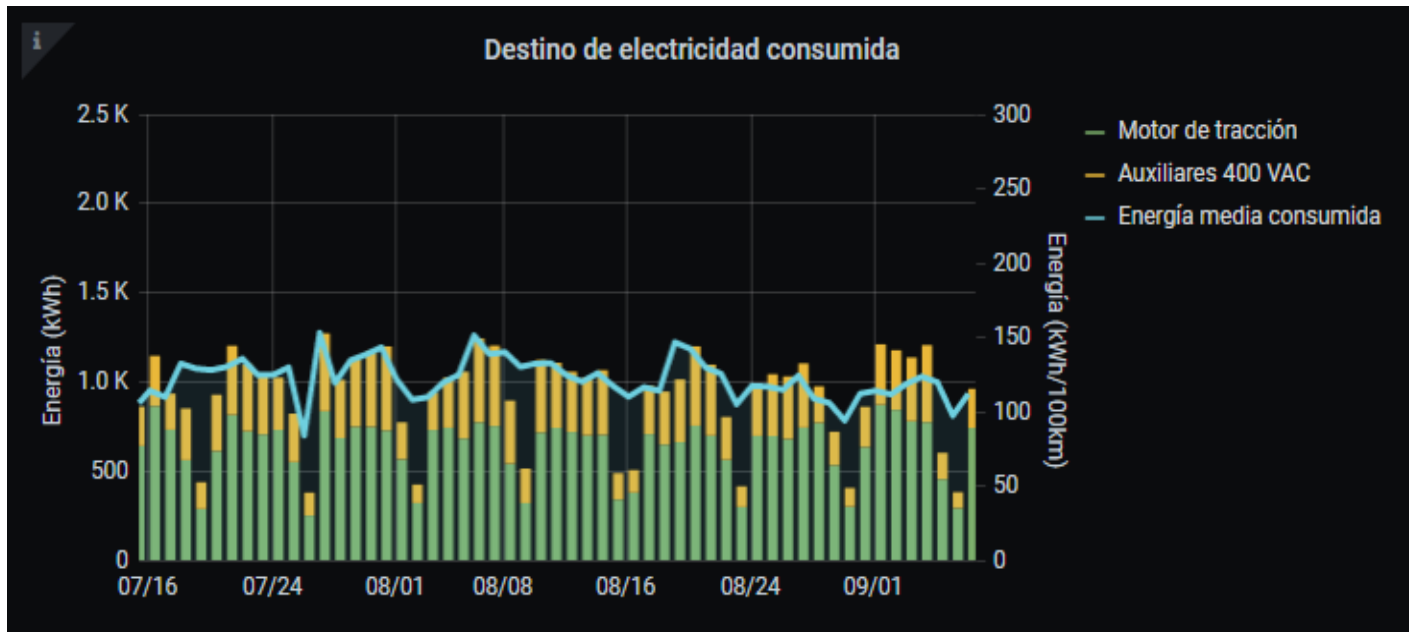
1. [www.pamplona.es/actualidad/noticias/el-ayuntamiento-de-pamplona-pone-en-funcionamiento-esta-semana-34-nuevas-plazas](http://www.pamplona.es/actualidad/noticias/el-ayuntamiento-de-pamplona-pone-en-funcionamiento-esta-semana-34-nuevas-plazas)
2. [www.diariodenavarra.es/noticias/navarra/pamplona-comarca/pamplona/2020/10/06/la-estacion-autobuses-pamplona-tendra-punto-recarga-vehiculos-electricos-704055-1702.html](http://www.diariodenavarra.es/noticias/navarra/pamplona-comarca/pamplona/2020/10/06/la-estacion-autobuses-pamplona-tendra-punto-recarga-vehiculos-electricos-704055-1702.html)
3. [www.pamplona.es/actualidad/noticias/pamplona-acoge-el-lanzamiento-de-carteroo-un-reparto-del-siglo-xxi-limpio](http://www.pamplona.es/actualidad/noticias/pamplona-acoge-el-lanzamiento-de-carteroo-un-reparto-del-siglo-xxi-limpio)



# Pamplona's E-mobility actions

## Platforms for data analysis

**CENER Electric Busses Monitoring Platform** for post-processing and statistical analysis of the use of electric buses in Pamplona.



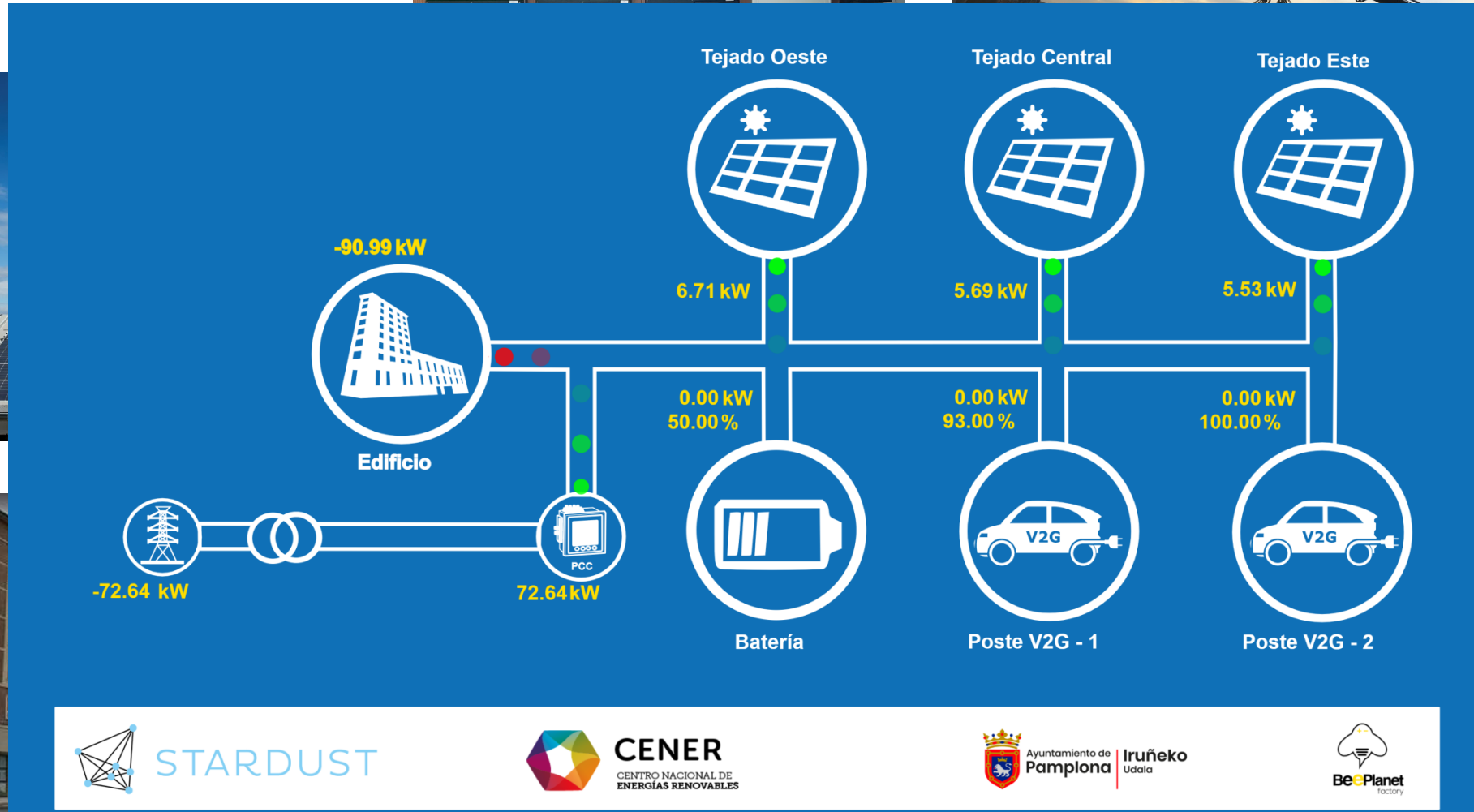
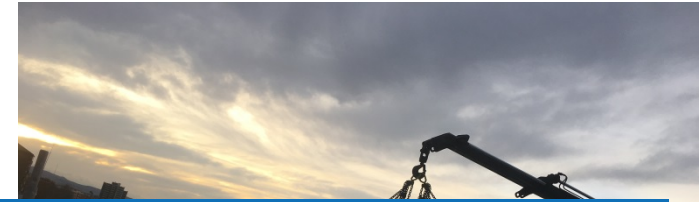
[www.mcp.es/content/en-servicio-la-primera-linea-100-electrica-del-transporte-urbano-comarcal](http://www.mcp.es/content/en-servicio-la-primera-linea-100-electrica-del-transporte-urbano-comarcal)



# Pamplona's E-mobility actions



Municipal fleet of vehicles updated to sustainable vehicles



Building loads 700kWh/year







# Thank you!

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