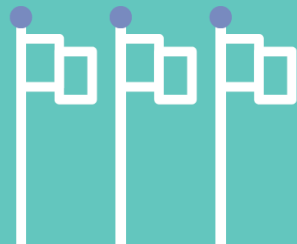


# Science Meets Regions

## Policies of energy efficiency in buildings

Carlos Chocarro  
NASUVINSA  
Government of Navarre

Science  
Meets  
Regions



26 FEB 2019 · Baluarte, Pamplona

#EUSci4Regio

Gabrovo  
Габрово



European  
Commission



✓ **1994. First Wind Farm**

✓ **2018. 975 MW**

✓ **61% Electricity renewable origin**



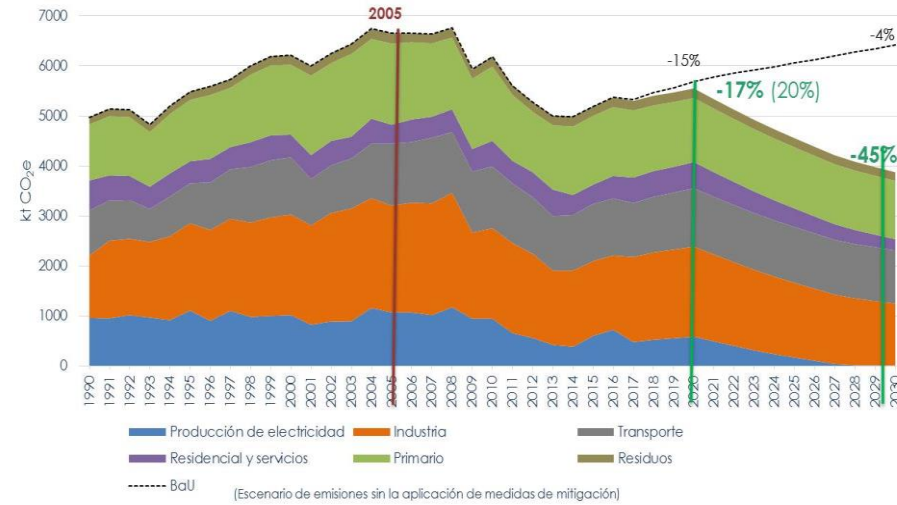
SUMMARY Climate Change Roadmap for Navarra 2017-2030-2050

KLINa

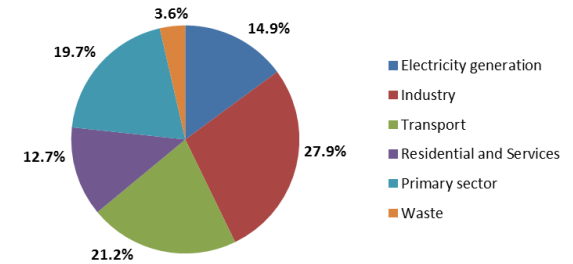
# CLIMATE CHANGE ROADMAP FOR NAVARRE 2017-2030-2050

## SUMMARY

Navarre's contribution to the international commitment to combat Climate Change



### 2016 Total GHG emissions by sector



### MITIGATION OBJECTIVES

Navarra is committed to reducing its total emissions of GHG, compared to the situation of 2005:

by 20% to 2020

by 45% to 2030

by 80% to 2050

### ADAPTATION OBJECTIVES

- Administrative coordination.
- Adapt the scenarios to our reality.
- Reduce the effects of climate change in the natural, urban and rural environment.
- Raise awareness.





## LIFE-NAdapta. 6 FOCUS AREAS

[www.lifenadapta.eu](http://www.lifenadapta.eu)

LIFE16 IPC ES 000001 - **LIFE-IP NAdapta-CC**: Towards an integrated, coherent and inclusive implementation of Climate Change Adaptation policy in a region: Navarra



**LIFE NADAPTA**

**CC MONITORING:** knowledge of the climate change effects in Navarra to promote adaptation measures.



**LIFE NADAPTA**

**ADAPTIVE MANAGEMENT OF AGRICULTURE:** Implementing innovative techniques for the management of soils, pests and emerging diseases, pastures, vegetative material and use of irrigation water in Agriculture and Livestock.



**LIFE NADAPTA**

**ADAPTIVE MANAGEMENT OF WATER:**

- plans and alert systems for flood and drought risks
- sustainable draining systems
- projects for river restoration



**LIFE NADAPTA**

**ADAPTIVE MANAGEMENT OF HEALTH:** systems to monitor the consequences of climate change on human health and protection measures against new risks.



**LIFE NADAPTA**

**ADAPTIVE MANAGEMENT OF FORESTRY:** new forest growth models in the most vulnerable areas to climate change to conserve the ecological value and improve the forest productivity.



**LIFE NADAPTA**

**ADAPTIVE MANAGEMENT OF INFRASTRUCTURES AND TERRITORIAL PLANNING:** Promoting the energy regeneration of the urban and rural environment and analyzing the vulnerability of Infrastructures and Landscape

a public company on service of

# the right for energy efficient social housing



Nasuvinsa   
Navarra de Suelo y Vivienda, S.A.

- ✓ A public body
- ✓ More than 30 years
- ✓ Polices on public housing and industrial areas
- ✓ Has built more than 7,000 dwelling units
- ✓ Manages 1,500 social rental housing

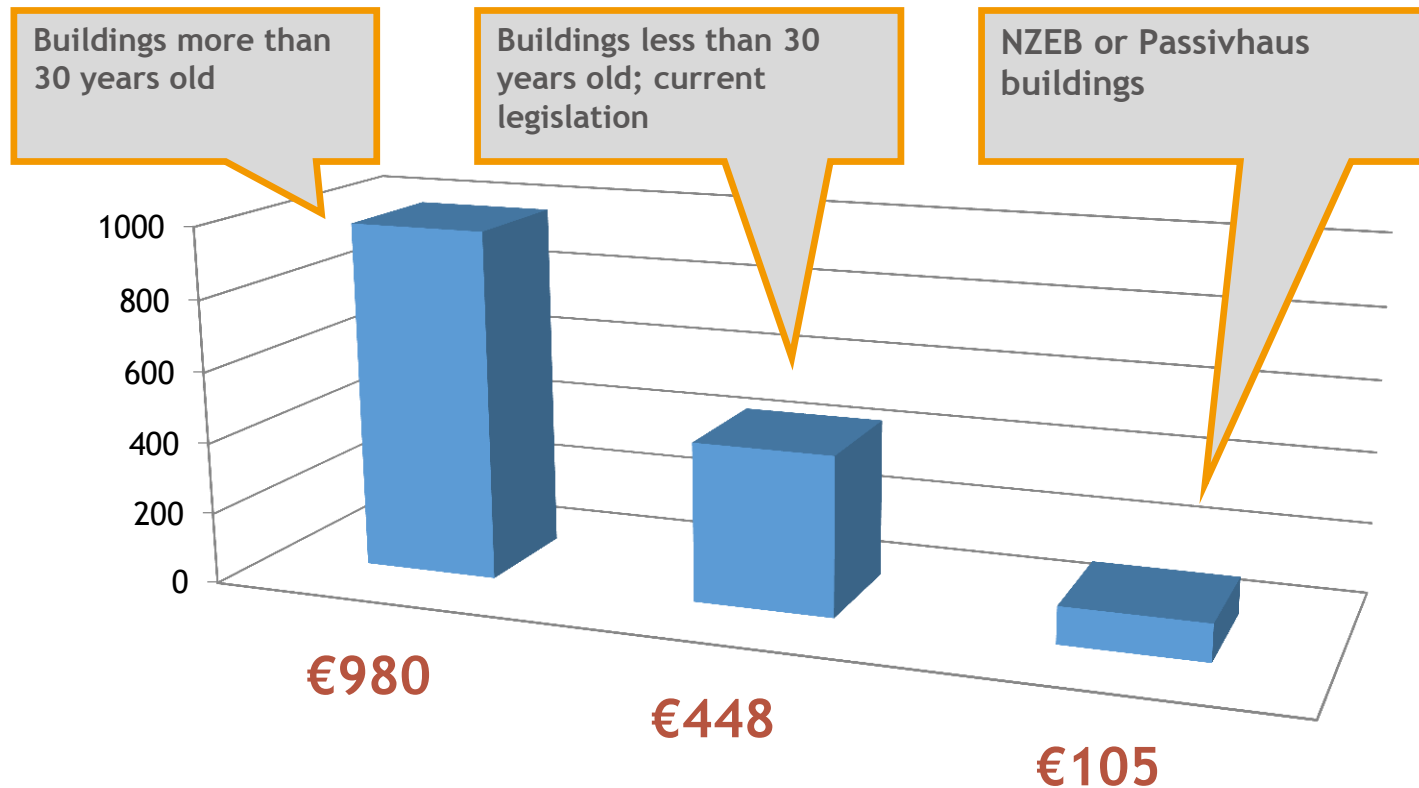


# Rental Housing Plan 2017-2020

## Nearly Zero-Energy Building (NZEB)

- ✓ Nasuvinsa will construct 524 social homes by the **Passivhaus** standard
- ✓ European legislation requires NZEB standards to all housing objects since 2020
- ✓ **EUR 80 million** of total investment (50% financed by EIB)
- ✓ Attention to the real demand for Rental Housing
- ✓ Minimize the effect of energy poverty

## NZEB; SAVING ON RECEIPT OF HEATING



- Annual consumption of heating in a 70 m<sup>2</sup> home

- ✓ Reduction of heating cost by 90%
- ✓ More comfortable homes
- ✓ Decrease of the pathologies caused by lack of ventilation and heating
- ✓ Decrease of rental property debtors

## DRAFT ACTION PLAN (Public Feedback until 4 March 2019)

1. CREATION OF 'FINANCING FOR DISTRICT ENERGY' TASK GROUP
2. MAXIMISING USE OF WASTE HEAT IN CITIES
3. GUIDANCE ON ENERGY MASTERPLANNING FOR CITIES
4. 'DEPLOYMENT DESKS' FOR CITY RETROFITTING
5. CLOSER CO-OPERATION WITH EU BODIES TO PROMOTE ENERGY TRANSITION FUNDING



### COMPOSITION OF THE PARTNERSHIP:

#### Coordinators

- London (UK)
- Gdansk (PL)
- Roeselare (BE)

#### Partners representing Urban Authorities

- Gothenburg (SE) - CEMR
- Navarra Nasuvinsa (ES) - CoR
- Udine (IT) - MS
- Tilburg (NL) - MS
- Vaasa (FI) - MS
- Vidzime Region (LV) - MS
- Warsaw (PL) - Eurocities
- CEMR
- EUROCITIES

#### Partners representing Member States

- France
- Germany

#### Partners representing the European Commission

- DG REGIO
- DG ENER

#### Partners representing Stakeholders

- EIB

#### Observers

- URBACT

#### Secretariat

- ECORYS







## Links:

### NAVARRA

[https://www.navarra.es/home\\_en/](https://www.navarra.es/home_en/)

### NASUVINSA

<http://www.nasuvinsa.es/en>

### CCRN

<http://na.bruselas.site/es/climate-change-roadmap-navarre-hccn-2017-2030-2050>

[https://www.navarra.es/home\\_es/Actualidad/Sala+de+prensa/Noticias/2018/01/26/Hoja+de+ruta+y+plan+de+energia.htm](https://www.navarra.es/home_es/Actualidad/Sala+de+prensa/Noticias/2018/01/26/Hoja+de+ruta+y+plan+de+energia.htm)

### LIFE NADAPTA

[www.lifenadapta.eu](http://www.lifenadapta.eu)

[http://ec.europa.eu/environment/life/project/Projects/index.cfm?fuseaction=search.dspPage&nproj\\_id=6559](http://ec.europa.eu/environment/life/project/Projects/index.cfm?fuseaction=search.dspPage&nproj_id=6559)

### nZEB

<https://www.nasuvinsa.es/es/energy-efficient-rented-social-housing-units-navarre>

### URBAN AGENDA. ENERGY TRANSITION

<https://ec.europa.eu/futurium/en/energy-transition/energy-transition-public-feedback-starts-today-and-lasts-until-4-march-2019>

<https://ec.europa.eu/futurium/en/urban-agenda/terms/all/Energy%2BTransition>



Thank you very much  
Благодаря!  
Muchas gracias  
*Eskerrik asko*

*Carlos Chocarro*  
*cchocars@nasuvinsa.es*