



**BARCELONA  
+ SOSTENIBLE**

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## **BARCELONA'S COMMITMENT TO THE CLIMATE**

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We, the 800 public associations on the + Sustainable Barcelona network, fellow signatories with Barcelona City Council to the Citizen Commitment to Sustainability for 2012-2022,

to mark the 21st Conference of Parties to the United Nations Framework Convention on Climate Change (COP-21) being held in Paris, where the 196 States that have ratified the convention will be meeting up to deal with the need to reach a new international agreement on climate that can apply to all countries, to keep global warming below 2°C,



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# HAVING REGARD TO THE FACT THAT:



**Climate change** is an international problem that requires complete solidarity, as its effects know no boundaries, while any attempts to deal with it are resisted by conflicts of interests, financial pressure groups and government caution. Such effects do not have the same intensity throughout the world, given that the countries suffering the worst impact from climate change are the ones with the fewest emissions and least capacity for countering the negative effects on their populations. International agreements can no longer hold back the environmental and social impact caused by unsustainable growth models around the world.

The challenge lies not just in discovering the best technological solutions but also in the way that all the players, such as ourselves, mobilise to move forward collectively towards a new form of governance. Climate change is also a question of democracy and fairness.



**Cities** represent part of the problem of climate change, which is precisely why they are also a crucial part of the solution.

Initiatives for reducing and adapting to climate change in urban concentrations will be key. Locally, insofar as citizens' living conditions are improved and globally, since cities house over 60% of the world's population and concentrate most of the emissions and world energy consumption. More specifically, some 74% of the European Union's population lives in urban areas where 75% of energy is consumed.

The effects of climate change endanger people's health and well-being (heat waves, outbreaks of diseases) and safety (undermining water and energy supplies, infrastructures and protection against fire hazards), and threaten the loss of soil fertility and biodiversity, among other things, all of which need to be provided for and prevented on a global level.



**Barcelona** faces the same deep-rooted problems as many other cities: comprehensively high energy consumption and sources of energy that are neither clean nor renewable, and a high dependence on fossil and nuclear fuels.

The trend in final energy consumption in our city has been on the rise over the last few years. Energy consumption went up from 15,664.78 GWh in 1999 to 16,782 GWh in 2012, despite the trend to reduce consumption per capita, with a drop in energy consumption per resident from 10.60 MWh/year in 1999 to 10.35 MWh/year in 2012.

As for greenhouse gas (CO<sub>2</sub>, methane, N<sub>2</sub>O, etc.,) emissions, Barcelona released a total of 3,690,037 tonnes of CO<sub>2</sub> equivalent into the atmosphere in 2012, representing 2.28 tonnes of CO<sub>2</sub> equivalent per capita, considerably below the level of emissions for 1999, when 3.19 tonnes of CO<sub>2</sub> equivalent were given off. Even so, the problem is just as big and needs continued action. We still have plenty of work ahead of us to extend the new energy culture and ensure that our way out of the economic crisis is firmly based on a sustainable use of natural resources and, in particular, on efficiency and promoting renewable-energies.

## BARCELONA

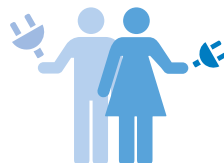
### energy consumption

1999  
**15,665** GWh  
2012  
**16,782** GWh



### energy consumption per resident

1999  
**10,60** MWh/year  
2012  
**10,35** MWh/year



### CO<sub>2</sub> equivalent emissions per capita

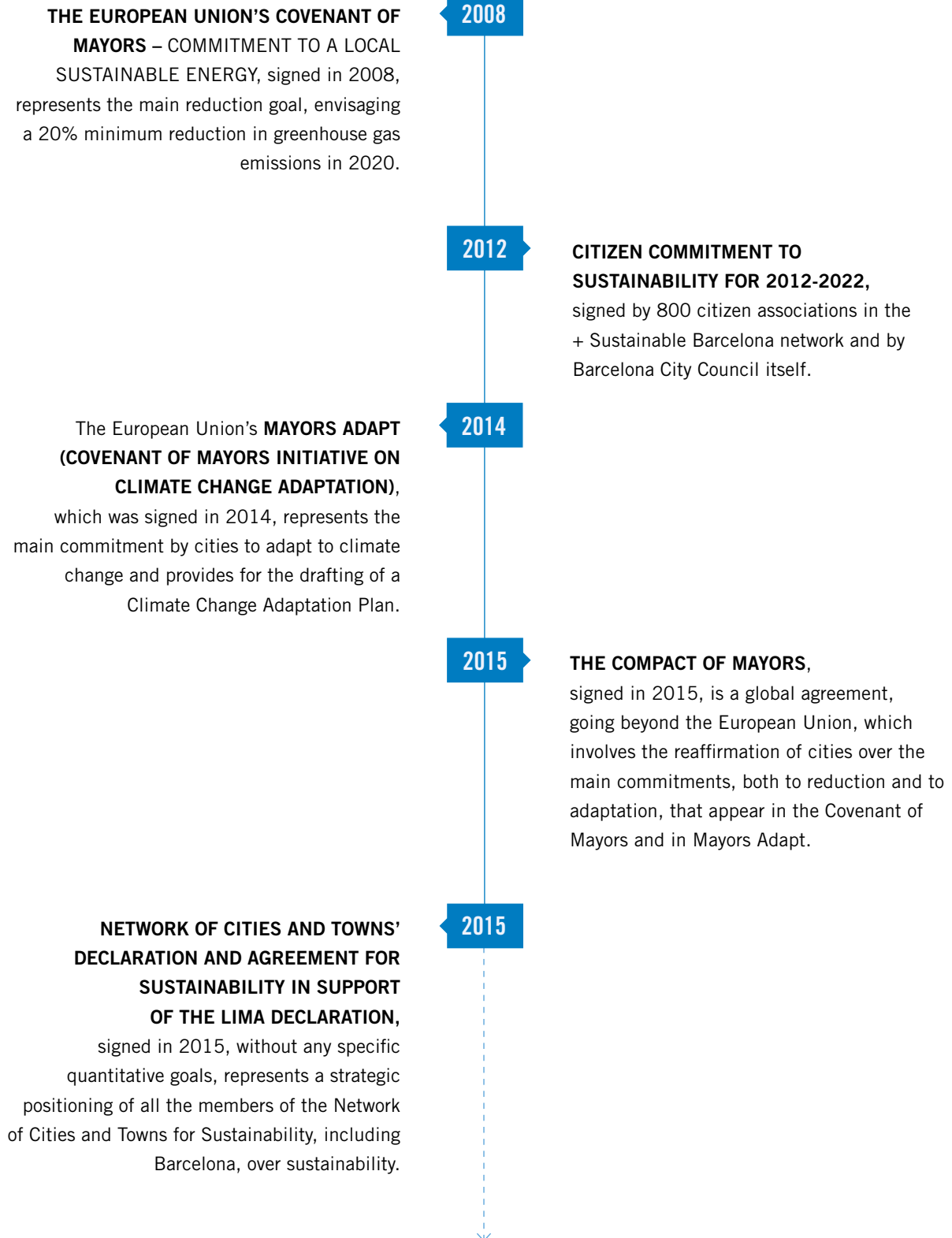
1999  
**3,19** t CO<sub>2</sub>  
2012  
**2,28** t CO<sub>2</sub>



# WE REAFFIRM:

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International and local commitments that Barcelona has already adopted in:





## WE DECLARE THAT:

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- We want Barcelona to lead the way and act as a benchmark in climate protection.
- Basing our starting and reference points on the commitments that have already been adopted, we wish to go further on the city level, through the network of signatories to the Citizen Commitment to Sustainability and with all the residents of Barcelona keen to join in, and thereby help to reduce gas emissions and adapt to climate change in the coming years.
- Through collective action, we aim to ensure that by 2030 Barcelona

→ will have reduced its levels of CO<sub>2</sub> equivalent emissions per capita by 40% compared to the figures from 2005.



CO<sub>2</sub> equivalent emissions per capita

▼  
**-40%**

compared to 2005

→ as regards adaptation, will have increased its urban green by 1.6 km<sup>2</sup>, i.e. by 1 m<sup>2</sup> per current city resident.



verd urbà

▼  
**+1 m<sup>2</sup>** per

current city resident

- To achieve these goals we are putting together our first road map with a series of projects to be carried out within the next two years.
- We, Barcelona City Council and the city's residents, are committed together and to one another, each in their own field, and are adding further initiatives to develop Barcelona's Commitment to the Climate.

**And we call on the various economic and social collectives, authorities, enterprises, social players and organisations and the public to promote, further and run initiatives, each according to their own possibilities, to reduce climate change and adapt our city as a means of preventing negative impact on it.**

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Barcelona, November 2015

# BARCELONA'S COMMITMENT TO THE CLIMATE

## ROAD MAP FOR 2015-2017

### STRATEGIC MEASURES

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- Implementation of the **Energy, Climate Change and Air Quality Plan for 2011-2022**
- Implementation of the **Urban Mobility Plan for 2013-2018**
- Development of a **Strategy for Resilience and Adaptation to Climate Change**, based on analysing Barcelona's vulnerability towards the impact of climate change
- Development of the **Barcelona Green and Biodiversity Plan for 2020**
- Development of the **Barcelona Waste Prevention Plan for 2012-2020**

### PROJECTS LED BY THE CITY COUNCIL

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- Creation of a **Municipal Energy Operator**
- Deployment of **cooling and heating grids**
- **Energy saving and efficiency programme in municipal buildings**
- **Bicycle Promotion Plan**
- Design of a **green corridor** that strengthens environmental services and sustainable mobility
- Creation of a **biodiversity garden** intended for species conservation
- Creation of a **population map of people whose health is vulnerable to climate change**

# BARCELONA'S COMMITMENT TO THE CLIMATE

## ROAD MAP FOR 2015-2017

### PROJECTS LED BY ASSOCIATIONS IN THE + SUSTAINABLE BARCELONA NETWORK

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#### E4: Plug into Energy Saving and Efficiency

Public advice for achieving an energy democratisation and renovation model that addresses the issue of energy poverty and opts for advancing towards self-sufficiency.



#### Passive reforms and active awareness against energy poverty

Energy-efficiency and health programme based on renovating housing with passive low-cost systems and recommendations for adapting habits.



#### Safe school routes

Promoting sustainable mobility and safe access to schools on foot, bicycle and public transport by applying new technologies that ensure safety and increase children's independence (mobile devices, apps etc.)



#### Cycling to work

Promoting sustainable mobility with a change in the means of transport to work by providing a fleet of bicycles that workers can borrow.



#### Mosaic roofs

A pilot project for a mosaic of roofs with facilities that combine renewable energies with agricultural, green and rain water-collecting spaces, adapted for several types of buildings and users.



#### Green point 2.0

An initiative for lengthening the useful lives of materials and products, based on a website-mobile app and a meeting point for initiatives and services that promote reuse, repairs and urban mining.



#### From door to door, and I separate more. And take those containers back to their retailers

An initiative for zero waste and circular economy by improving waste separation through door-to-door collecting and package deposit, refund and return systems.



#### Let's team up against climate change

Networking to review current educational and cultural proposals in the city, for updating and factoring in climate variables.



#### Climate change affects you as well as the planet

Communication Plan with serious yet optimistic messages that are centred on the individual responsibilities required in addition to international and city commitments.



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