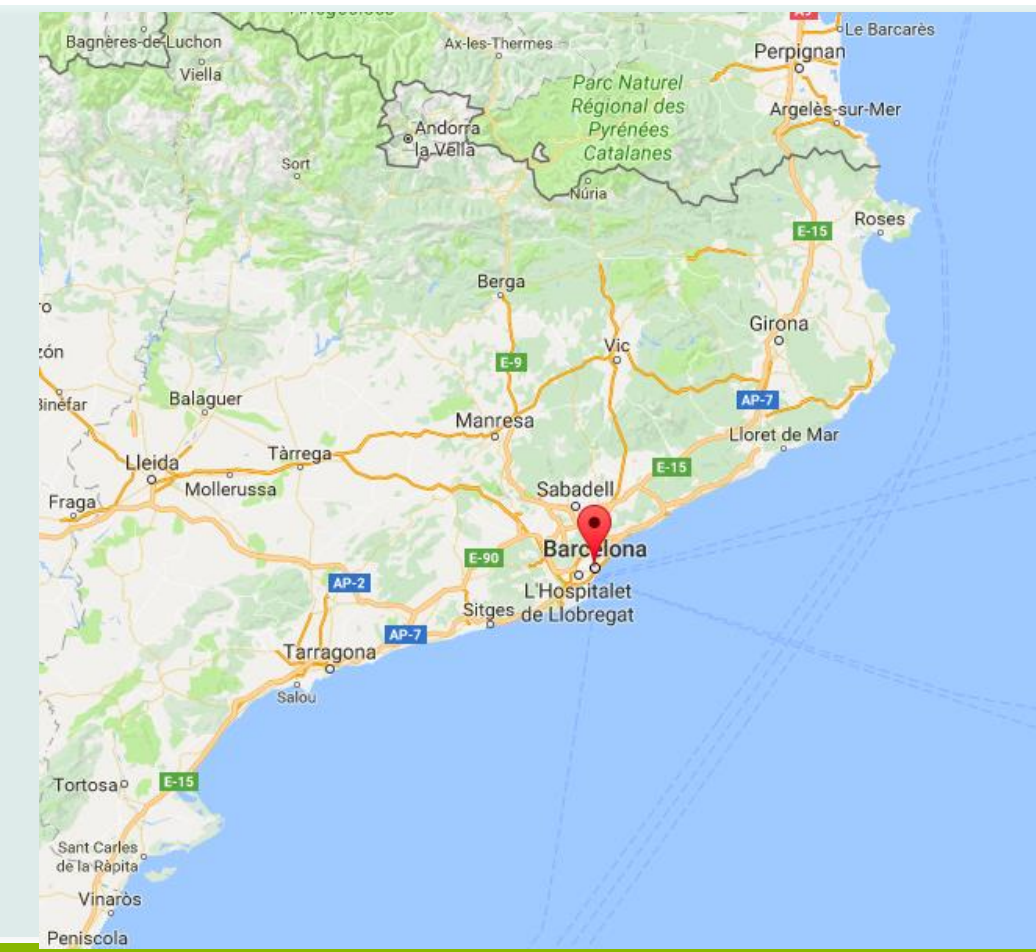




BARCELONA

A modern, dynamic and clean city that preserves its history and character
Building tomorrow starts with actions TODAY

The Mediterranean city of Barcelona in the north-east of Spain is a dense urban area of 5.5 million inhabitants. A strong industrial city since circa 1750, Barcelona is also a renowned historical tourist destination, and today is among the leaders for smart city technological development.



Activities for climate change mitigation

Barcelona has a broad set of climate objectives and ongoing projects in the area of climate change mitigation and adaptation.

A key strategy is the Barcelona energy and climate change plan 2011-2020, which targets a reduction of 20% in greenhouse gases by 2020. It also goes beyond mitigation, by assessing long-term needs for adaptation and mitigation.

Furthermore, the city has an important long-term ambition to become a post-carbon city:
Energy self-sufficiency by 2054

This strategy covers the needs of all sectors.

POCACITO process in Barcelona

A modern, dynamic and clean city that preserves its history and character. Action needs to start NOW.

Key overarching messages from the workshops



Participants working hard on the vision for Barcelona

The POCACITO participation process was built on four workshops in Barcelona:

- Two Visioning workshops for 'Barcelona 2050'.
- Two Backcasting workshops on the milestones and actions required, and who should carry them out.

The most critical aspects identified:

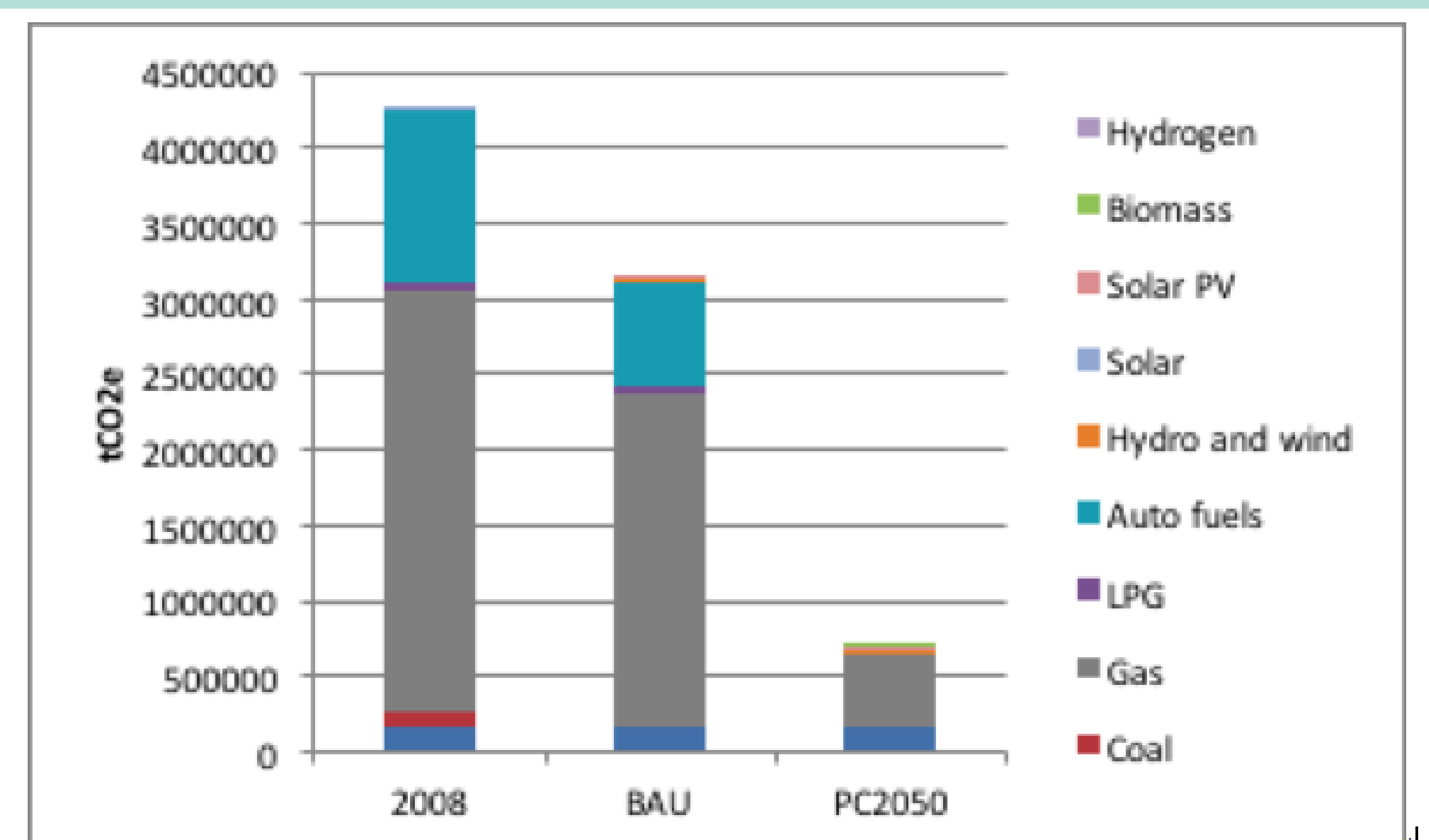
- Preservation of the city's historical character
- Improving the mobility of citizens, reducing transport needs
- Eliminating fossil fuel use in transport
- Making all buildings energy efficient
- Generating real emissions reductions, not pushing emissions to areas outside the city to fulfil demand in the city
- More cohesive society, better health, better civic education
- Achieving the 2050 target starts with action **NOW!**

Will Barcelona achieve its climate goals?

Existing and planned measures have been modelled in POCACITO, using business-as-usual (BAU) and post-carbon 2050 scenarios.

Key results:

- Under BAU the city falls far short of a post-carbon future. Under the post-carbon scenario it gets much closer but still needs additional cuts, particularly for gas use
- Under a BAU scenario the Barcelona municipality reaches 2.5 tCO₂e /capita in 2050, while in the post-carbon scenario it approaches 0.4 tCO₂e/capita – close to the post-carbon status
- Increased wealth and demand may generate more emissions outside the city, having an overall negative impact effect



Greenhouse gas emissions per energy source in 2008, BAU 2050 and post-carbon 2050

Next steps for Barcelona!

- Educating citizens is paramount to changing habits
- Changing how people move in the city is fundamental
- Laws (national & EU) have to be adapted to the needs of cities to help them reach a post-carbon status
- We need to start moving NOW!

POCACITO – Post-Carbon-Cities of Tomorrow – is a European research project that studies the decarbonisation of European cities. Key to the project were participative processes in ten case study cities, in which participants developed a common post-carbon vision for their city in 2050.

For further information on POCACITO, please contact:

Max.Gruenig@ecologic.eu and on the Barcelona case study, please contact: jorge.nunez@ceps.eu.

www.pocacito.eu



This project has received funding from the European Union's Seventh Framework Program for research, technological development and demonstration under grant agreement no. 613286.