SPAIN
MURCIA

POPULATION
441,003 (2016)
SCOPE
1 AND 2

GHG TARGET
-20% IN 2020
COMPARED TO 2007
(WITHOUT INDUSTRY)

Successful efforts thanks to energy efficiency

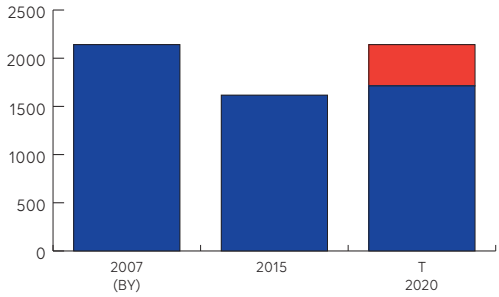
Following its accession to the Covenant of Mayors for Climate and Energy, the municipality of Murcia defined its Renewable Energy Action Plan in 2010. In 2015, the city reached its target of 20% reduction of GHG by 2020 compared to 2007. The region's emissions from industry being, however, excluded from this target owing to the lack of influence of the municipal administration on the latter, yet responsible in 2007 for 13.7% of emissions. The Action Plan sets two main targets: the reduction of atmospheric pollution and the reduction of the use of non-renewable energy including energy production, mobility, and energy efficiency. In 2007, transport alone was responsible for 39.7% of emissions, services for 19.7% and the residential sector for 16.7%. It should be noted that Murcia's GHG emissions were already 34.4% lower than the Spanish average in 2007.

• A PERFORMANCE DUE TO IMPROVEMENT OF ENERGY EFFICIENCY • To reduce its GHG emissions by 20% by 2020, the municipality targeted its actions on the improvement of the energy efficiency of public structures and installations, private companies, and residential buildings.

The light points constituting public lighting and signalling systems for example have been gradually replaced by LED technology. LED traffic lights should enable a GHG emission reduction of 10,237tCO_2eq/year. Private individuals also benefited from measures, in particular within the framework of Murcia's Window Renovation Plan. 460 families in total benefitted from the Plan, for a total funding of €600,000. Finally, measures to improve the energy efficiency of municipal buildings enabled the laying of 24 photovoltaic installations on their roofs, and the implementation of the SmartSpaces programme between 2012 and 2015 in six buildings, which enabled savings of 254tCO_2/year. Lastly, presence sensors were installed to light common areas in municipal buildings. This measure alone should enable an emission reduction of 49,956tCO_2/year.

• THE DEVELOPMENT OF AN AMBITIOUS MOBILITY PLAN • To reduce its emissions in the transport sector, the municipality of Murcia defined a number of measures in its Renewable Energy Action Plan concerning mobility, including a Sustainable Urban Mobility Plan launched in 2013. **This plan enabled, in particular through the Murcia Zona 30 plan and the creation of 95.5km of "30 zones" in the city centre, a viability study to be conducted on the installation of charging points for electric vehicles or the construction of park and ride carparks on the outskirts or near public transport stations.** The two existing tramway lines were extended to cover 18km and 12km, respectively. The extension of the tramway network should enable a decrease in emissions of 7204tCO_2/year.

Murcia - GHG Emissions (ktCO_2eq)



Finally, the development of soft mobility is central in Murcia's new mobility policy, with the implementation of a free access bicycle service, "MUyBICI", initially including 60 stations and 600 bicycles, along with the construction of a cycle track network of 551km. In a first stage, bicycle rental stations were located in the city centre with a maximum distance of 300m, or 4 minutes on foot, between each station, to guarantee the best possible coverage. **The extension of the cycle track network should reduce emissions by 5330tCO_2/year. In 2015, bicycle use increased by 5% in Murcia's modal share compared to 2007.**

MAIN SOURCE:
RENEWABLE ENERGY ACTION PLAN - MURCIA