european post-carbon
cities of tomorrow

TURIN

Post-carbon transition as an opportunity for socio-economic development

Turin is the fourth Italian city by population (892,276 inhabitants). It is located in the north-west of Italy.
Turin's main economic sectors are automotive, ICT, and tourism. A major challenge is the unemployment rate (now at 11.9%). GVA/capita is €26,029 (2013).

Activities for climate change mitigation

In 2010 Turin approved the TAPE – Turin Action Plan for Energy, in the framework of the Covenant of Mayors.

TAPE's objectives:

- Reducing CO_2 emissions by 42% by 2020 (base year: 1991).
  In detail: - 44% for buildings, -26% for industry, -45% for transport.

Main actors:

- The Municipality, the Energy and Environment Authority, the Environment Technological Park, the Metropolitan Mobility Authority, Politecnico di Torino, public utilities.

POCACITO process in Turin

Imagining how the city could be in 35 years' time is quite challenging, but it helps to frame and assess post-carbon policies.

Discussion at the POCACITO Workshop

Participants discussing and developing a vision for Turin in 2050

The vision '2050 post-carbon Turin' is built around three concepts:

- Differentiation (specialised economic base, multimodal transport system etc.)
- Identity (strong social integration, high quality of life, promotion of young people's initiatives, cultural heritage and landscape etc.)
- Smartness (pervasive ICT connections, sharing as the new paradigm)

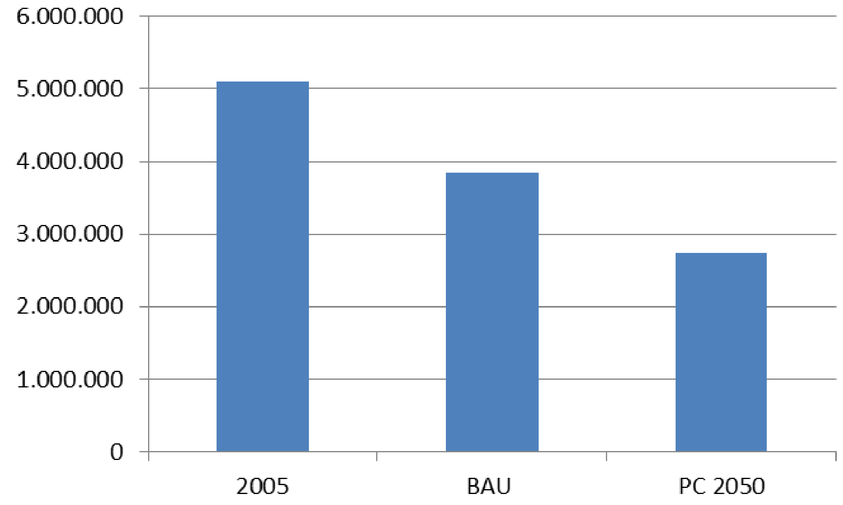
The main action fields identified were: economy & jobs, mobility, R&D and innovation, air pollution, demographic change, ageing and poverty, soil preservation, tourism promotion, and sharing.

Will Turin achieve its climate goals?

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

Some results:

- Energy consumption in the post-carbon scenario is 9.2% lower than in the BAU scenario
- Greenhouse gas emissions are 3,842,000 tCO2e (3.46 tCO2e /cap.) in the BAU and 2,746,400 CO2e (2.26 tCO2e/cap) in post-carbon scenario
- Yet the energy mix is still unbalanced and renewable energy sources could be greatly improved



Greenhouse gas emissions in the two scenarios (tCO2e)

Where should Turin act?

- Increase the use of renewable energy sources
- Foster circular economy and lifestyles
- Reduce poverty levels
- Reduce soil consumption and sprawl at the metropolitan level

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.

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