

City of Milan: Energy and Climate Policies

The energy retrofit of private and public buildings

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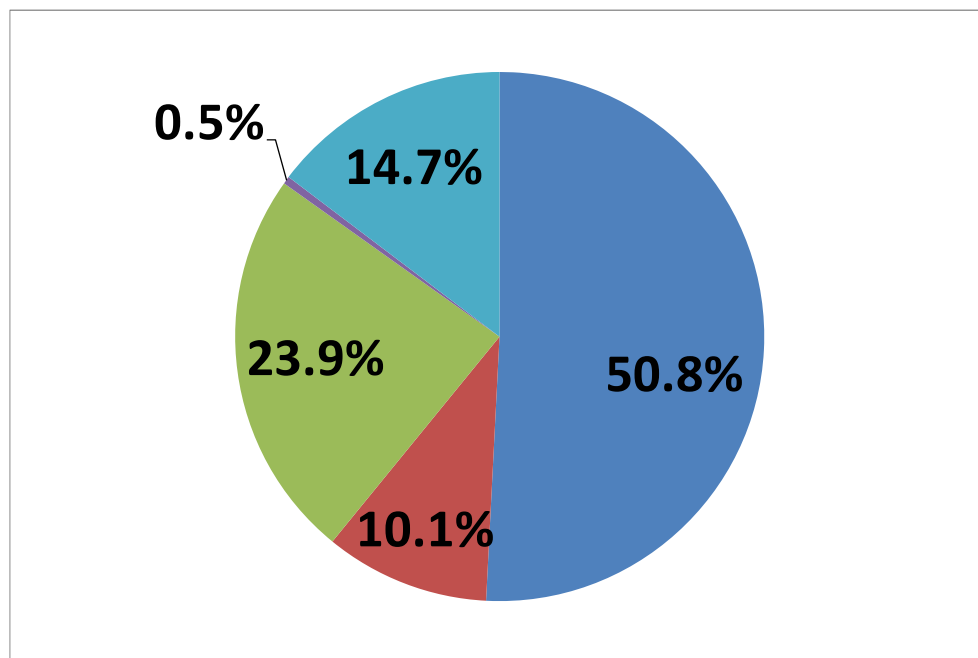


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Energy consumption in Milan

Energy consumption per sector – final uses - 2013



- building heating (residential and tertiary)
- domestic uses - (electricity and natural gas)
- tertiary sector and industry (electricity and natural gas - only process - heating not included)
- public lighting
- transport

Total energy consumption \cong 23.900 GWh

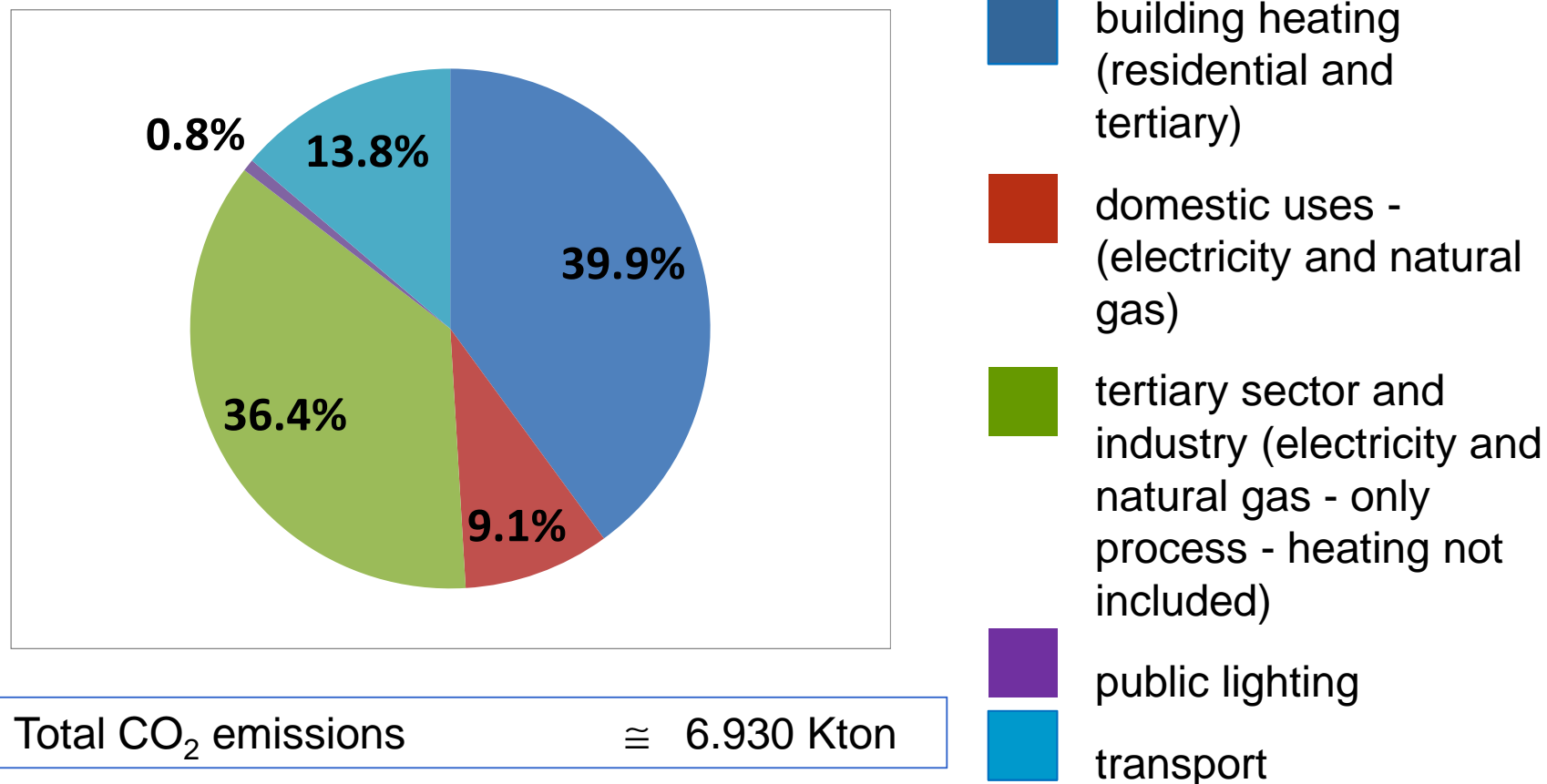
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CO₂ emissions in Milan

CO₂ emissions per sector - 2013



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The Covenant of Mayors

In July 2012 the City of Milan confirmed its adhesion to the Covenant of Mayors. Milan is therefore committed to reduce CO₂ emissions on its territory at least of 20% by 2020.

In coherence with its commitment, the city is elaborating its Sustainable Energy Action Plan, a document illustrating the actions and measures the Administration is planning in order to achieve the target.

As illustrated in the previous slides buildings represent the main source of energy consumption and of CO₂ emissions in Milan (building heating representing almost the 51% of energy consumption and the 40% of CO₂ emissions), thus within the SEAP actions regarding building energy retrofit play a relevant role.

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The Covenant of Mayors

Beside the building sector (public and private), the measures that will be included in the SEAP cover the different sectors where the Administration can act, i.e.:

- Tertiary sector
- Mobility and Transport
- Renewable energy
- Waste management

Most of the measures entail a reduction in energy consumption and less emissions of other atmospheric pollutants.

In the following the more relevant measures regarding buildings will be illustrated

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Energy efficient buildings

PRIVATE BUILDINGS

Reduction in infrastructure charges for energy efficient new and retrofitted buildings and for renewable energy use (enforced since January 1, 2008).

A reduction up to the 30% is granted in proportion to the primary energy demand for building heating. Additional reductions are granted for solar thermal, photovoltaic and geothermal energy

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Energy efficient buildings

PRIVATE BUILDINGS

The new building code, approved recently (October 2, 2014)

The new building code that sets minimum eco-sustainability criteria (including energy efficiency and renewable energy use requirements), more restrictive the national and regional legislation and provides incentives (in terms of increased building volume) for buildings respecting specific parameters concerning energy performance and sustainability.

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Energy efficient buildings

PRIVATE BUILDINGS

“Patti Chiari per l’Efficienza Energetica”

An initiative aiming at facilitating the matching of supply and demand and at making the energy efficiency market more transparent and accessible. This initiative gathers together all the subjects involved in the private buildings’ energy retrofit process: citizens, trade association of companies operating in the building sectors, financial institutions. The City Administration plays a role as intermediary between the main players in the market for energy efficiency and condominiums.

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The Covenant of Mayors

PRIVATE BUILDINGS



Energy Help Desks

An information service for citizens was organised.

9 experts are available in fixed days in institutional locations in the different districts of the city, to provide information concerning:

- maintenance and management of heating plants
- available incentives and financing sources for building energy retrofit and renewable energy use
- building energy performance assessment and advices on feasible retrofit interventions

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The Covenant of Mayors

PUBLIC BUILDINGS

- The energy service contract of the non residential public buildings includes energy efficiency interventions, to be implemented by the provider (an energy saving of 1870 TOE must be achieved within the 7 years of duration of the contract)
- In addition, 38 schools will be retrofitted, by contracting an ESCo. For this project the City of Milan will benefit of a special loan (low interest rate) from the European Investment Bank (EIB), within an agreement between the Province of Milan and EIB. This pilot project is very important for the Administration, as it represents one of its first experiences of Energy Performance Contracting and, in case of success, could be replicated on a larger scale.

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Thank for your attention

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