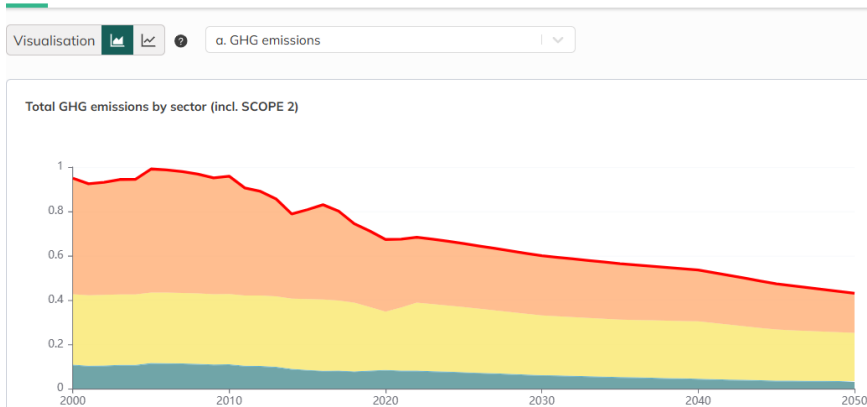


EU City Calculator

Total Buildings Transport Food and AFOLU Industry Energy production Resources



SOURCE

<https://eucitycalc.climact.com>

DEVELOPER

EU Project

TYPE OF RESOURCES

Planning tool

AVAILABLE FOR FREE/LICENSE

Entirely free

USER FRIENDLINESS

User-friendly

TUTORIALS AVAILABLE

https://www.youtube.com/watch?v=qtnfTPsX_-E

SHORT DESCRIPTION

The EU City Calculator aims to deliver an energy modelling tool adapted to the city needs and representative of the major material, energy and emission-related processes happening within the city's administrative areas and beyond. The tool plans to integrate specific mitigation actions formulated at the city level into its modelling framework and provide cities with an easy-to-use web-interface for model exploration. Possibility for the users to manually import all relevant data. While the interface is intuitive once data is uploaded, there is no step-by-step import -wizard, and support materials may be needed.

PHASE OF THE H&C PLAN

- **Baseline assessment:** H&C demand and consumption.
- **Intervention and decarbonisation scenarios:** simulating building retrofits.
- **Evaluation and comparison of different scenarios – Roadmap:** energy comparison, emission comparison, economic comparison, roadmap development.

OUTPUT OF THE TOOL

- GHG emissions at municipal level (baseline and intervention scenarios) [tCO₂]
- Final energy demand at municipal level (baseline and intervention scenarios) [GWh]
- Primary energy demand and production at municipal level (baseline and intervention scenarios) [GWh]
- Primary energy demand and GHG emissions per scenario comparison
- Costs per scenario comparison (capex, opex, fuel) [€]
- Visualisation of different roadmaps (Current local policy, Moderate and Ambitious) related to GHG emissions and to primary energy demand

REQUIRED INPUT

SECAP

MAIN ADVANTAGES

The webtool is designed to facilitate the transfer of data from the SECAP template provided by the Covenant of Mayors to the EU City Calculator, and the transfer of outputs from the webtool (measures and their implications) back to the SECAP template.

MAIN DISADVANTAGES

It is a linear model and does not provide optimised scenarios or forecasts. The tool is more difficult to use when the city is not included in the existing database (and even more difficult without a covenant of mayors account), as it requires significant manual data preparation and input before accessing its full functionality.

