Local Climate Protection in Tübingen
Tübingen – an old University Town

• 88.500 inhabitants, around 30.000 students
• Well-known university, founded in 1477
• University and university clinic as largest employers with more than 13.000 employees
• Dynamic growth: population, jobs, housing
Politics & Local Climate Protection

• 1993: Membership in European Climate Alliance ⇒ no consequences

• 2003: Guidelines for a sustainable urban development with commitment to the targets of the Climate Alliance ⇒ no consequences

• 2007: New mayor ⇒ municipal council resolution for the goal „- 10 % CO₂/inhab. till 2010“ (compared to 2005 = 5-year-target of Climate Alliance)

• 2010: „- 13 %/inhab.“ achieved ⇒ Continuation of climate protection campaign

• 2014: „-21 %/inhab.“ achieved ⇒ 2015: municipal council resolution for the goal „- 25 % CO₂/inhab. till 2022“ (compared to 2014)

• 2019: municipal council resolution for the goal „Tübingen climate-neutral till 2030“
Evaluation in the European Energy Award

- Development planning, regional planning
- Communication, cooperation
- Internal organization
- Mobility
- Municipal buildings
- Supply, disposal

- Internal audit 2012
- External audit 2014
- External audit 2018
Territorial Carbon Footprint per Inhabitant: - 36 %

Energy-induced CO₂ emissions

\[ \text{t/inhab. (without air traffic; incl. upstream emissions, regional electricity mix; incl. guarantees of origin (HKNs))} \]

October 8, 2020
Policy Goals

Mission statement for energy and climate policy (enacted in 2019):

• Until 2030 the energy supply in Tübingen shall be climate-neutral (net-zero).

• Municipality and subsidiary companies set an example for climate protection.

• The infrastructure should offer possibilities for energy saving and climate protection.

• The urban society will be informed as well as motivated to protect the climate and to save energy.

⇒ extensive continuation of the climate protection program
Limited CO₂ Budget worldwide for the 1,5°-Target

approx. 340 gigatonnes CO₂ budget

in about 9 years depleted*

* at current emission level

Source: IPCC special report 2018
Measures of Municipal Climate Protection

The definition of the target „Tübingen climate-neutral till 2030“ and the balancing orient themselves also towards decided or planned climate protection measures (municipal options for action in Tübingen):

- Energy saving in the fields of electricity, heat, mobility
- Increase in the number of green electricity customers
- Promoting the use of renewable energies
- Integrated energy management
- Construction of renewable energy plants outside the municipal area by the municipal utility
- Promotion of construction with timber
- Promotion of a sustainable forestry

www.tuebingen.de/klimaneutral2030
Absolute, energy-induced CO₂ emissions

Energy-induced CO₂ emissions
\( t \) (without air traffic; incl. upstream emissions, regional electricity mix; incl. guarantees of origin (HKNs))

Goal = net-zero = energy-induced GHG emissions minus climate protection effects:

- Exterritorial RE plants of municipal utility
- CO₂ binding in urban forest
- Timber construction at municipal properties

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