

# Hannover, Germany

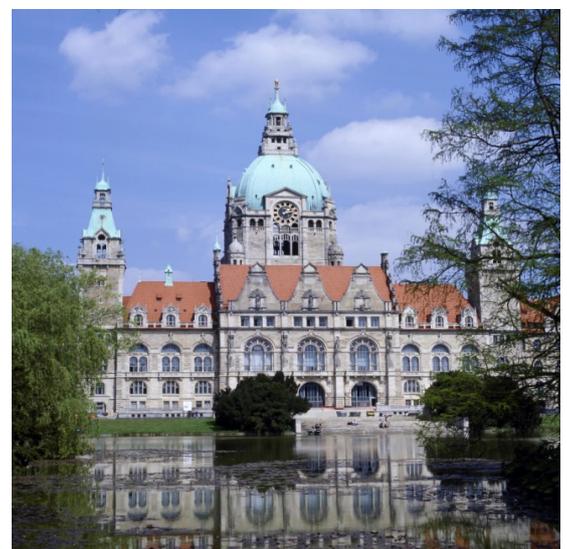
Hannover has set itself the goal of reducing CO<sub>2</sub> emissions by 1.8 million tonnes a year before 2020. It is using an integrated strategy to achieve this, including expansion of renewable energy sources, more intelligent and efficient use of energy and the incorporation of climate protection priorities in municipal tenders. As heating of buildings produces a third of the city's carbon dioxide emissions, it is prioritising the insulation of the existing building stock. A combined heat and power system re-uses heat created during electricity generation to heat air and water, and is used across much of the city. An extension to this system is planned in the coming years.

- **Low carbon vision:** 40 % carbon dioxide (CO<sub>2</sub>) reduction until 2020 and 95 % GHG emissions and 50 % energy reduction until 2050 (baseline year 1990).
- **Area (km<sup>2</sup>):** 204.14
- **Population:** 526,000 inhabitants (2014)
- **Population annual growth rate:** 0.8 % p/a
- **Final energy consumption in the community (year):** 15,360,772 megawatt hour (MWh) or 55,298,779.2 GJ (2011)
- **GHG emissions from the community (year):** 6,015,632 tonnes of CO<sub>2</sub> (2011)
- **Main economic activity:** Industry and service sector (e.g. banks, insurances, universities)
- **Main priority sectors for Low Emission Urban Development:** Six sectorial task forces drafted the steps included in the climate protection programme:
  - 1) Industry
  - 2) Residential buildings
  - 3) Commercial buildings
  - 4) Opinion leaders
  - 5) City administration
  - 6) Municipal utilities
- **Commitments:** 40 % CO<sub>2</sub> reduction on the basis of 1990 until 2020
- Hannover joint the Aalborg Charter, the Covenant of Mayors and is a member of ICLEI and the Climate Alliance
- The city has been using nuclear free production of energy from the utility since 1986
- In 2007 the public administration of the city launched the "Climate Alliance Hannover 2020" and the climate protection action program
- In 2014 the council decided to reduce 95 % GHG emissions and 50 % energy consumption until 2050 (baseline 1990)



"By committing to the 'Climate Alliance Hannover 2020' Hannover aims at the ambitious goal of a 40% CO<sub>2</sub> emission reduction by 2020. Today we are already preparing the foundation for becoming a carbon-neutral city by 2050 by following the 'Masterplan 100% Klimaschutz' as part of the regional energy transition plan. The community is a crucial supporter in these endeavours."

*Lord Mayor Stefan Schostok*



### Actions:

Climate Alliance partners have identified numerous activities and implementation measure for climate protection at a local level. Some of the key focal areas include:

- **Modernization of existing building stock and construction of energy efficient buildings, with a focus on public buildings**
- **Achieving a 30 % share of Passive House standard on new buildings**
- **Intelligent energy use and power generation**
- **Awareness raising campaigns**
- **Projects like: zero:e park Wettbergen and Kronsberg**
- **Application of ecological standards**
- **Urban development project until 2030**
- **Master Plan '100% Klimaschutz' 2050**

