

Hannover Climate Alliance 2020 – On the way to a low carbon city

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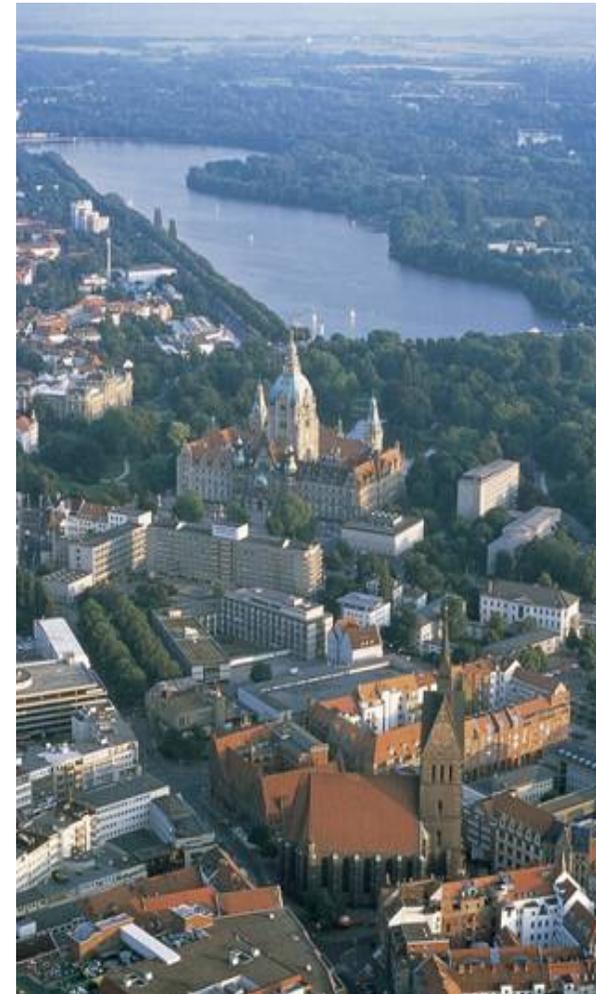


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City of Hannover

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- 520,000 inhabitants
- centre of the Hannover Region (pop. 1.1 million)
- capital and economic centre of Lower Saxony
- a city with a good quality of life
- the world's largest trade fair location
- 35,000 students at famous universities
- 245,000 jobs in service industries (e.g. insurance) and manufacturing and processing industries (e.g. automobile)



Hannover has powerful instruments

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- a committed climate protection unit in the city administration
- a majority municipal holding in the city energy utility, Stadtwerke Hannover / 'enercity'
- a climate protection fund, awarding grants totalling 5 million Euro a year for the last 10 years
- a regional climate protection agency involving around 60 institutions and companies
- a professionally-led Agenda 21 process with the broad-based support and involvement of local people
- about 80 industrial and commercial companies participating in the 'Ecoprofit' scheme



Overview of CO₂ Audit

CO ₂ audit for the City of Hannover, 1990 - 2005					
			Basis figures: CO ₂ emissions 1990 in 1000 t *	Change 1990 - 2005	
Energy customers 84%	Industry	32%	2,102	-12%	-8.8%
	Small commercial	27%	1,797	-8%	
	Private households	25%	1,625	-5%	
Transport 16%	Motorised Traffic	13%	836	-6%	-0.9%
	Rail	2%	125	-19%	
	Air travel	1%	94	+71%	
Totals:			6,579	-7.5%	

*including upstream emissions e.g., from gas extraction in Russia

Council resolutions (Basis figures 1990)

1992

25% CO₂ reduction by 2005
and first climate protection
programme

2008

40% CO₂ reduction by 2020



The Way to the Hannover Climate Alliance

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Joint climate protection action programme of the City of Hannover and 'enercity'.

Involvement of **all** relevant city stakeholder groups: around 80 private sector and institutional partners working in four groups



major commercial / industrial energy consumers

- vehicle manufacturers and their parts suppliers: Volkswagen, Continental,
- cement and carbon black factories
- newspaper
- brewery



Working Group Office Buildings

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- banks
- insurance companies
- public buildings
- trade fair company
- university

Working Group Housing

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housing construction and renting enterprises, professional associations e.g. *Haus und Grundeigentum* housing association, chamber of architects, landlords association, tenants association



Working Group Disseminators

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- churches, political parties, sports clubs, consumer protection associations, NGOs.



Every Working Group meets four times working on:

- Identify own aims and climate protection measures
- Analyse obstacles
- Make proposals for better framework conditions to the city council, city utility, federal state government, national government and the EU

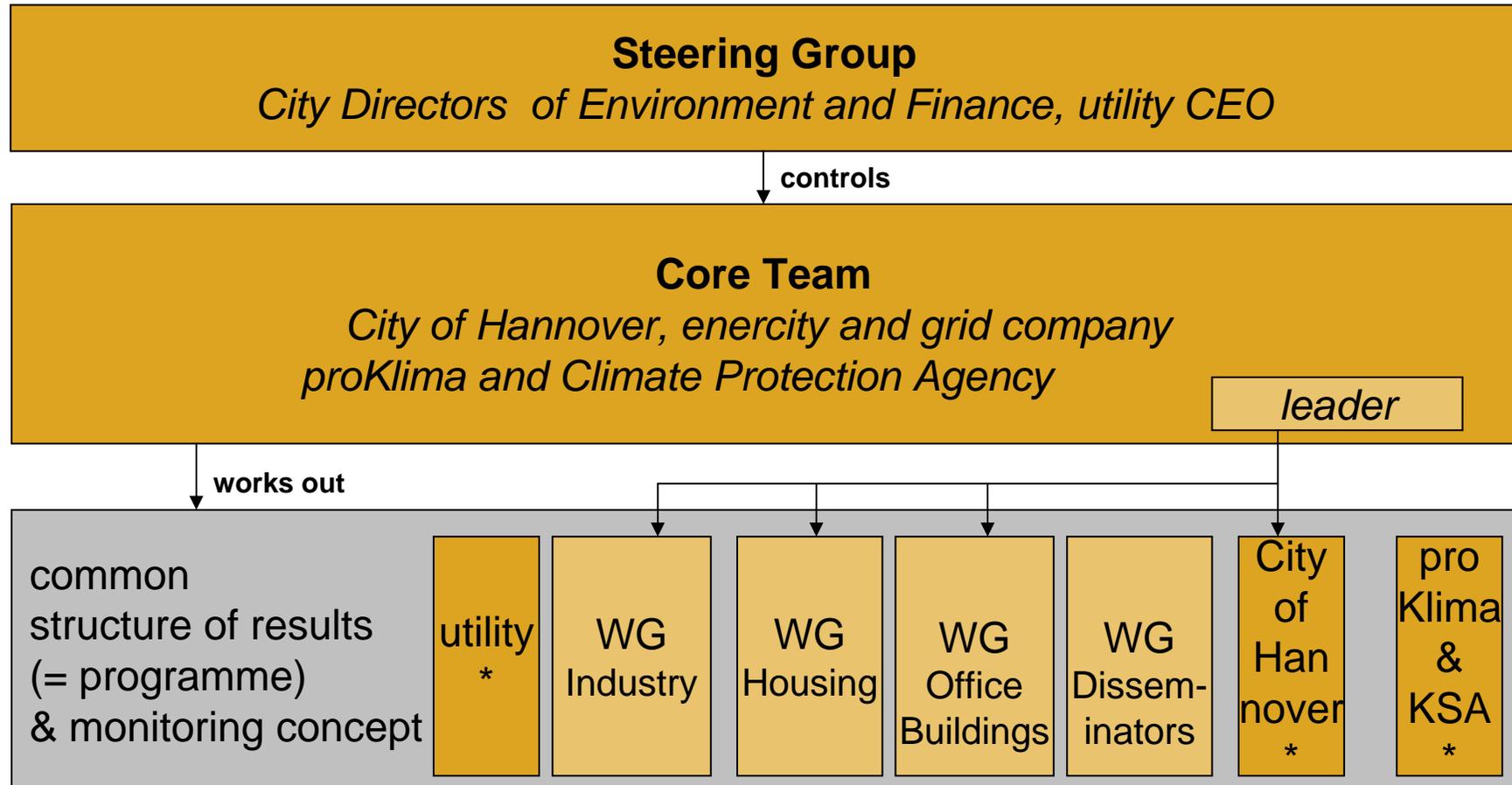
All actors made binding commitments to climate protection.

Contributions vary in extent and type:

- binding CO₂ reduction targets (up to 40%) or
- binding targets per production unit e.g. 5 kWh per hectolitre of beer or
- bundle of practical ('hard') measures or
- 'soft' measures e.g., public relations work through association newsletter

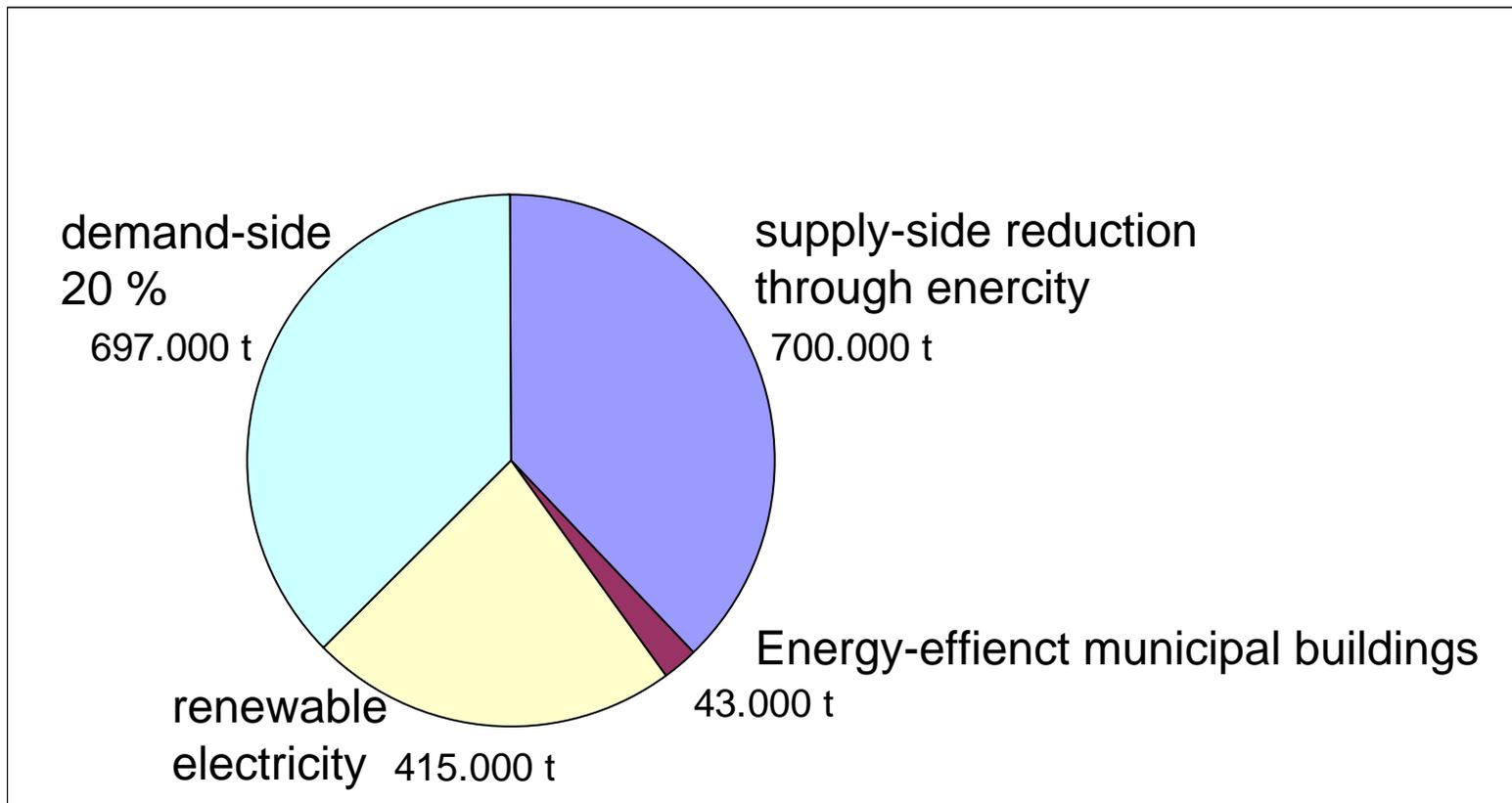


Working Structures Overview



* work on own contributions

1.855.000 tonnes CO₂ have to be reduced



Action plan 30 measures: reduction target: 40 %

- energy efficiency retrofitting of all municipal buildings by 2020; (about 60m € alone for investment in energy efficiency measures 2008-2012)
- ongoing conversion to district heating and decentral cogeneration (CHP)
- ongoing staff training and programmes with schools, kindergartens and administration
- energy efficiency as an important criteria for municipal procurement decisions
- conversion of street lighting and traffic signals to low-energy lamps (up to LED)

- extending district heating from 800 to 1,000 MW_{th}
- building local CHP plants: approx. 4 MW_{el}
- expanding own natural gas-fired CHP capacity (combined cycle gas and steam power station)
- expanding renewables (contracting)



Cooperation Projects with Region Hannover, proKlima and the Climate Protection Agency

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- 'Green Light for Passive Houses'
- retrofitting support for all sports clubs
- ECOPROFIT® Hannover
- CHP campaign
- individual energy efficiency advice for house owners
- electricity saving campaign for tenants, especially low-income households
- energy efficiency for SMEs ('eco.Bizz')
- cross-cultural climate protection advice



Objective

meet 20% of the Hannover Region's electricity demand from renewable sources in the region.

To achieve this

- replacement of 100 existing wind turbines with larger models (upgrading)
- construction of another 60 wind turbines
- 10% of arable land planted with fuel crops



- Lord Mayor Stephan Weil presented the results to the actors and to the public.
- The four Working groups presented their results
- all actors wanted to continue to implement the climate action programme



- Continuing the activities of the Work Groups by Hannover city administration
 - industry and office buildings: energy efficiency network
 - 'Climate Protection Partnership' for the housing industry
 - disseminators network

- Public relations work
 - website, brochure, film

- Controlling und Monitoring



**KLIMA-ALLIANZ
HANNOVER 2020**

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