

Hamburg, the winner 2011, has shown major achievements in the past years and at present, has also achieved excellent environmental standards across the board. The city has set very ambitious future plans which promise additional improvements.



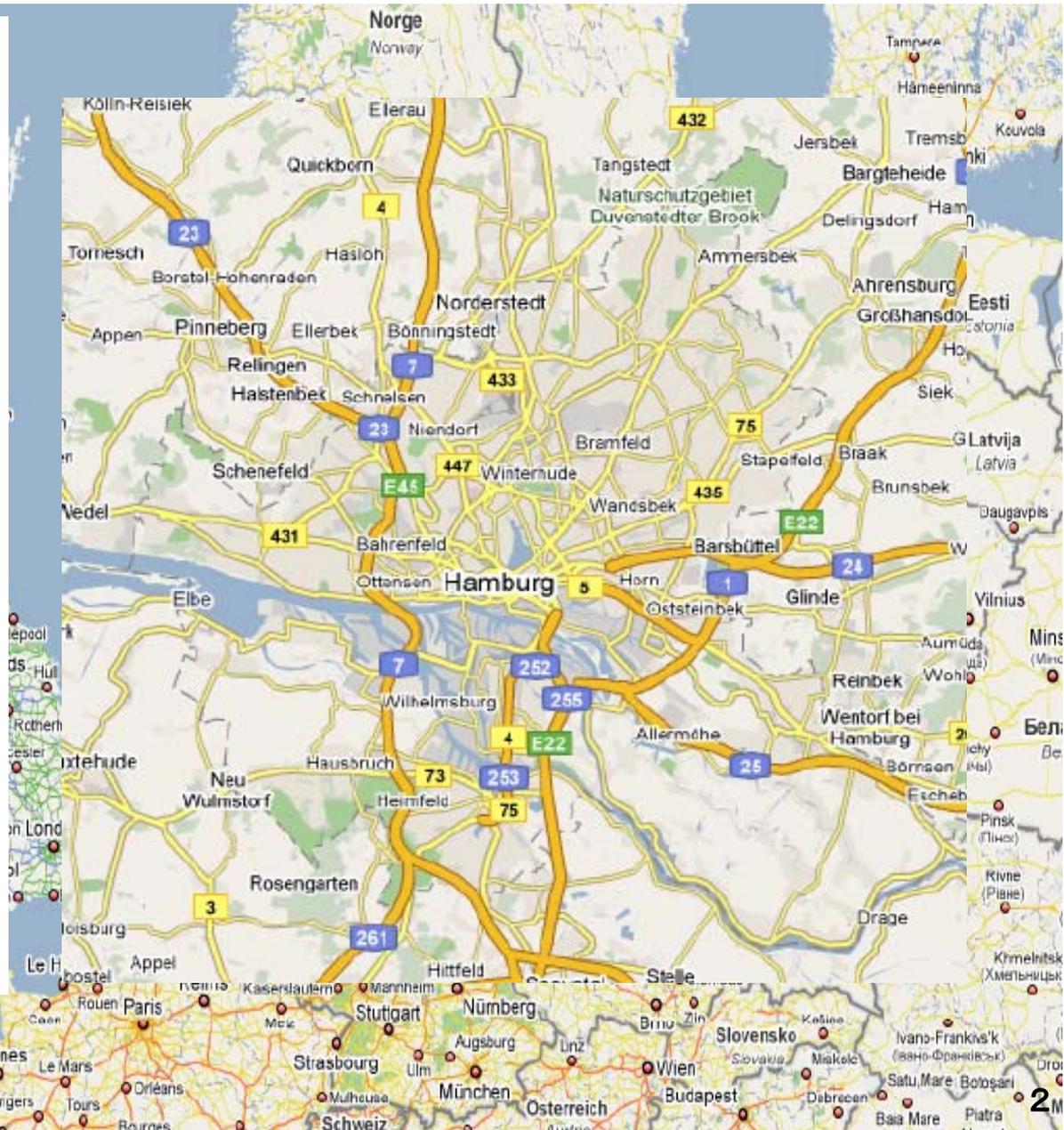
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KlimaCampus, U Hamburg

Hamburg



Hamburg | One of the ten largest cities in Europe

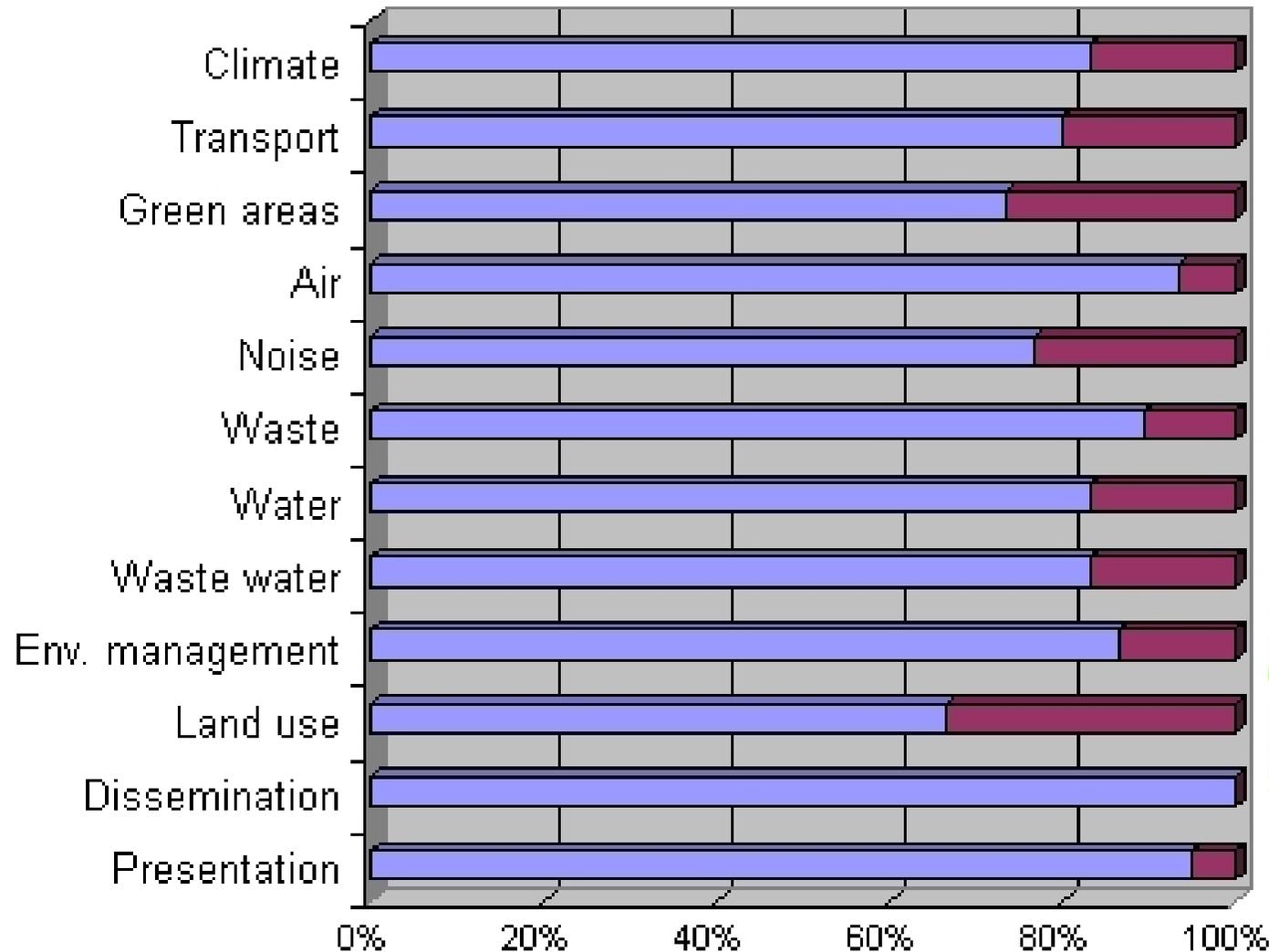
The city is home to approximately 1.8 million people, The Hamburg Metropolitan Region (including parts of two neighboring Federal States) has more than 4.3 million inhabitants. The port of Hamburg is the second-largest port in Europe, and the ninth-largest in the world.



Hamburg - European Green Capital 2011

Evaluation according to indicators

(in relation to maximum points)



Climate Action Policy Strategy

Practical climate mitigation and adaptation

Reorganize energy supply sustainably

Provide economic stimuli

Engage climate and climate impact science

Climate mitigation and adaptation becomes reality: about 180 of about 340 projects and measures have been realized or are underway.

Energy supply Hamburg shifts towards combined heat and power, renewable energy and improved energy efficiency.

The city expands its collaboration with Hamburg businesses through joint projects.

Engagement of local and regional research laboratories and universities in climate and climate impact research. Availability climate service facilities.

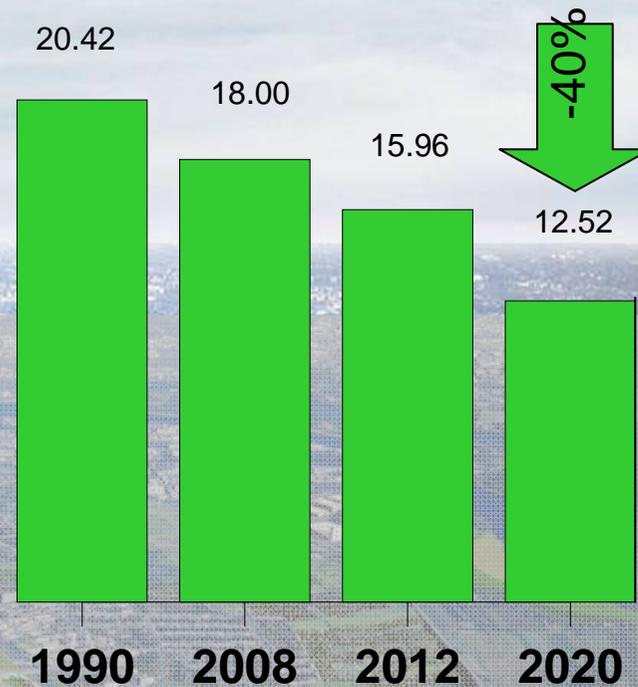
Key elements of next years' municipal climate policy in Hamburg

- annual CO₂-emissions will decrease by 2 M tons by 2012, and by 40 % by 2020.

- extra annual funding of 25 M Euro (100 M Euro up to 2012)

- turning climate action into job generation in engineering and manufacturing businesses,

- two-folded strategy of subsidies and regulation.



Mitigation: Setting a Public Example

Retrofitting of public buildings



Example Roof renovation and photovoltaic array at Kampnagel

Step 1 Retrofitting roof of former warehouse

→ 90 % less heat loss

Step 2 Installing photovoltaic array on 14500 m² roofing

Example Police and fire stations

Comprehensive program for 30 locations

→ already realized in 5 locations

Aim: Synergies with other construction projects



Mitigation: Collaboration With Businesses

Example

Combined heat and power (CHP) Program



Principle: No heat without power, no power without heat

Example

Funding program Innovation 2009-2012

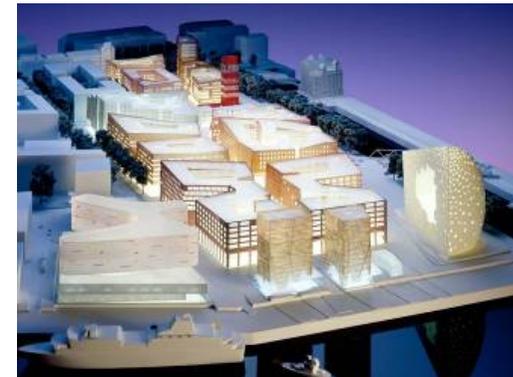


Areas are

- energy production and conversion
- development of resource friendly products, processes and services

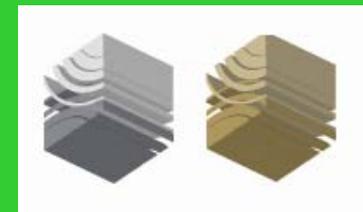
Mitigation: Stimulation of competition and market processes in developing new residential areas („Hafencity“) by

- ✓ awarding an eco-label and conferring an environmental award
- ✓ certification of buildings (silver / gold standard)
- ✓ promotion of energy efficiency as part of the sale of plots



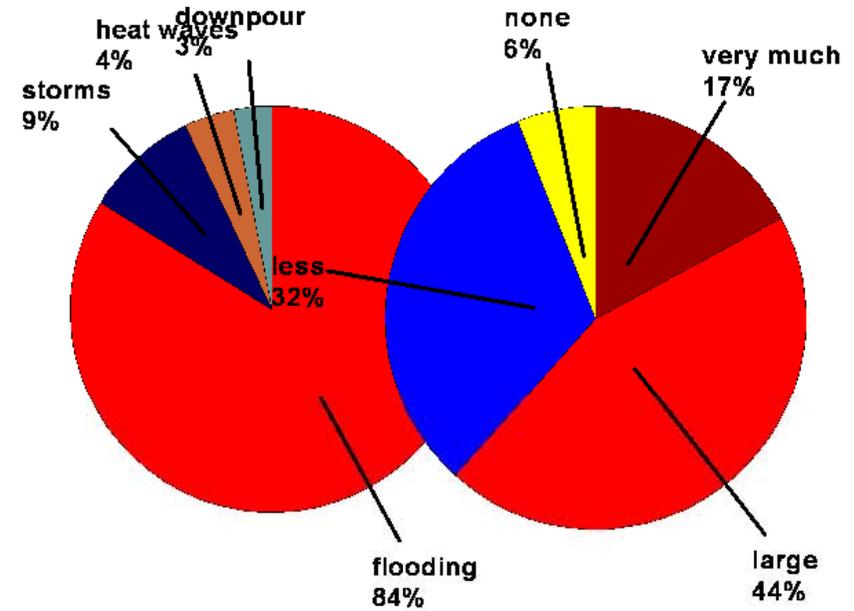
Silver standard:
residential buildings < 60 kWh/a m²
commercial buildings < 190 kWh/a m²

Gold standard:
residential buildings < 40 kWh/a m²
commercial buildings < 100 kWh/a m²



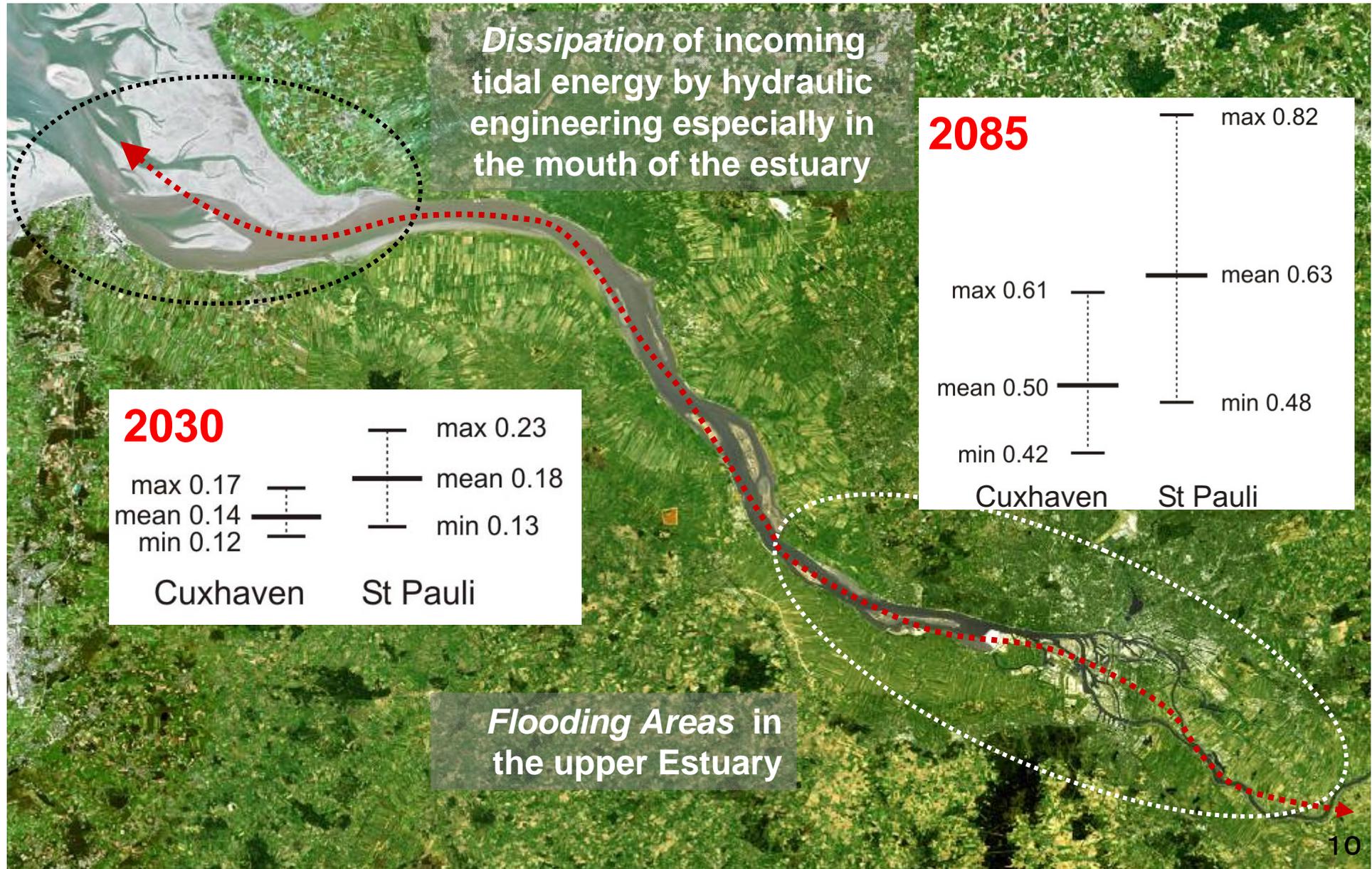


People in Hamburg are concerned about climate change – now.



The major fear is related to storm surges (flooding).

Constraining the impact of storm surges (and at the same time, sediment flux) in the river Elbe and in Hamburg



World-class scientific and applied climate research institutions in Hamburg:

3 universities

1 KlimaCampus at University of Hamburg: “Clisap” federal center of excellence

Federal research laboratories (GKSS, MPI)

Regional Climate Office

German Climate Computer Centre

Federal agencies – on weather, hydrography, coastal defense

... and municipal companies



Metroregion climate change assessment

Presently, a politically independent climate assessment report about the scientifically documented knowledge of climate change in the region of Hamburg is prepared. This is an activity of the Climate Center of Excellence CLISAP at the University of Hamburg.

A first draft will be published on 25. November 2010.

