

Klimapakt Flensburg – A city on its way to CO₂-Neutrality

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City of Flensburg

FLENSBURG 

Stadt Flensburg

in Kooperation mit



Klimapakt Flensburg e.V.



Facts and figures about Flensburg

Regional metropolis in Schleswig-Holstein

~ 90.000 inhabitants

~ 50.000 households

~ 40.000 private & commercial motor vehicles

Commerce and trade, tourism, industry, public authorities



City of two cultures

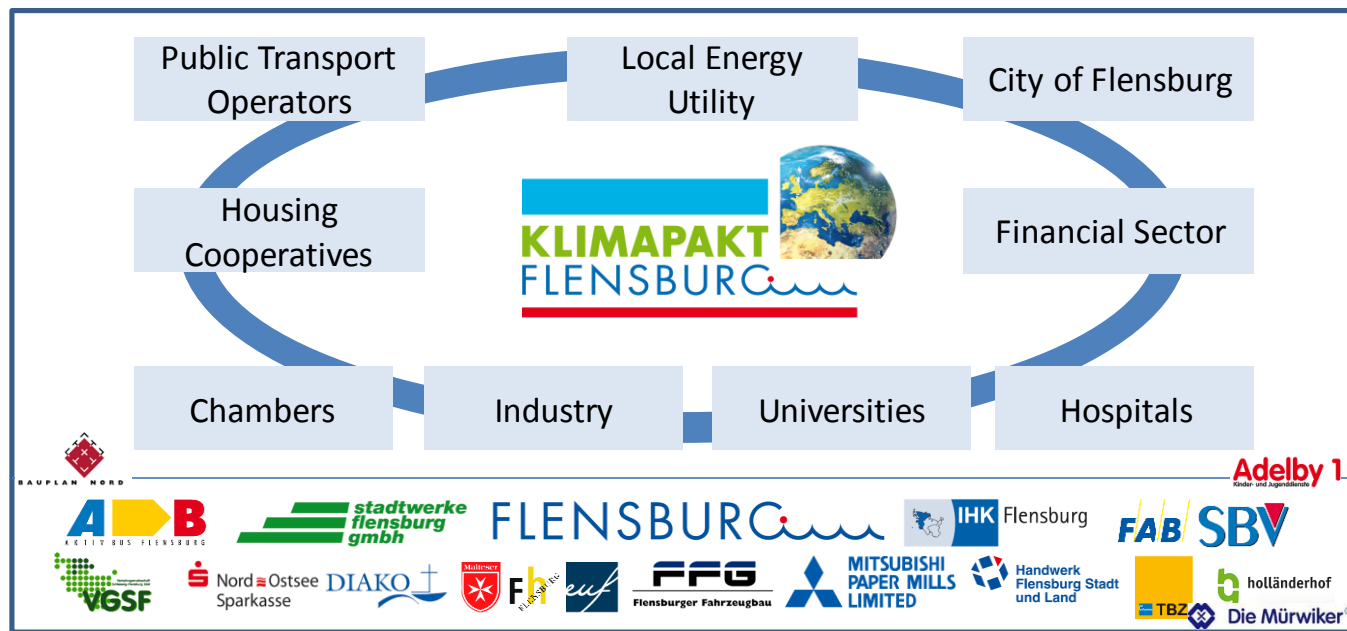


City of Klimapakt Flensburg



Klimapakt Flensburg e.V.

- Association established 2008 by local key actors of business and public sector, civil society



- 20 active member companies/organisations
- Sustaining membership: 23 companies/organisations, 16 citizens

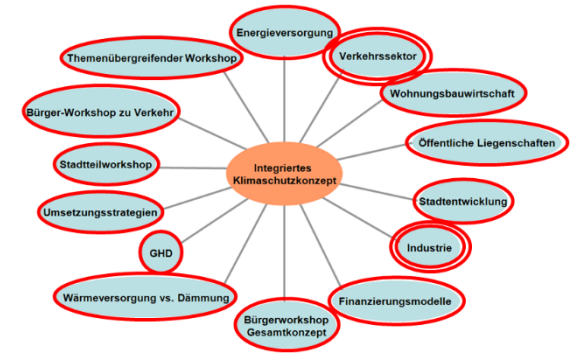
Klimapakt Flensburg: activities and objectives

- Active member companies: Commitment to reach CO₂-neutrality in 2050 in the individual sphere of action (~ 70 % of local GHG emissions)
- Public awareness raising: Publicity and campaigns on climate protection
- Initiation and implementation of cooperative projects (e.g. Carsharing, E-mobility, mobility management)
- Transfer of best-practice in cross-sectional topics, joint internal campaigns



2010-2012: The elaboration of the mitigation strategy

- 16 Workshops with more than 200 experts and citizens
 - Interactive elaboration of more than 100 measures & prioritization
 - Mailing of a strategy summary to 26.000 households & various presentations
- Long-term strategic investments, setting of a suitable framework AND thousands of individual choices per day



Reduction of the energy demand by 50 %

Building Sector



- Increase energetic renovation efficiency
- Increase renovation rate
- Usage of efficient household appliances

Industry & Commercial Sector



- Investments in energy efficient equipment
- Operational energy management
- Switching of lighting
- Building refurbishment

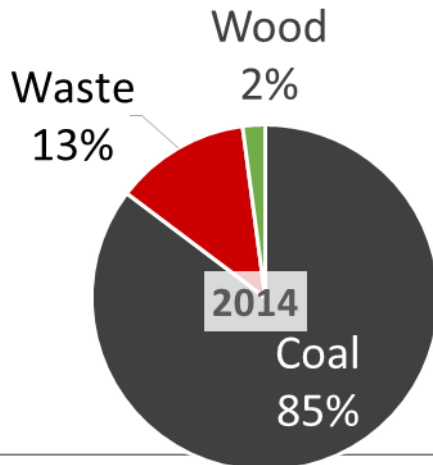
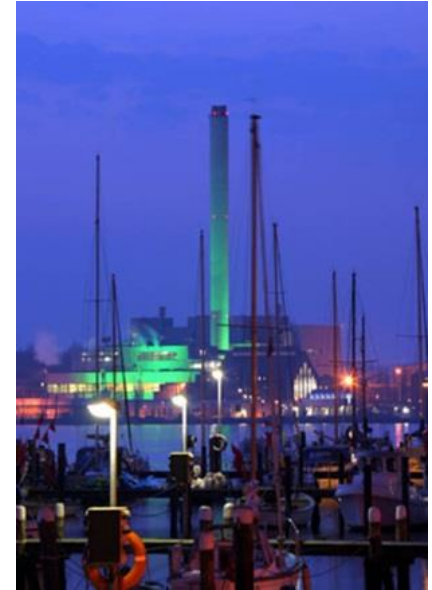
Mobility Sector



- Higher share of low-CO₂ modes of transport
- Multi-modality through car-sharing and behavioral change
- Electrification of cars and public transport

Green District Heating & Electricity

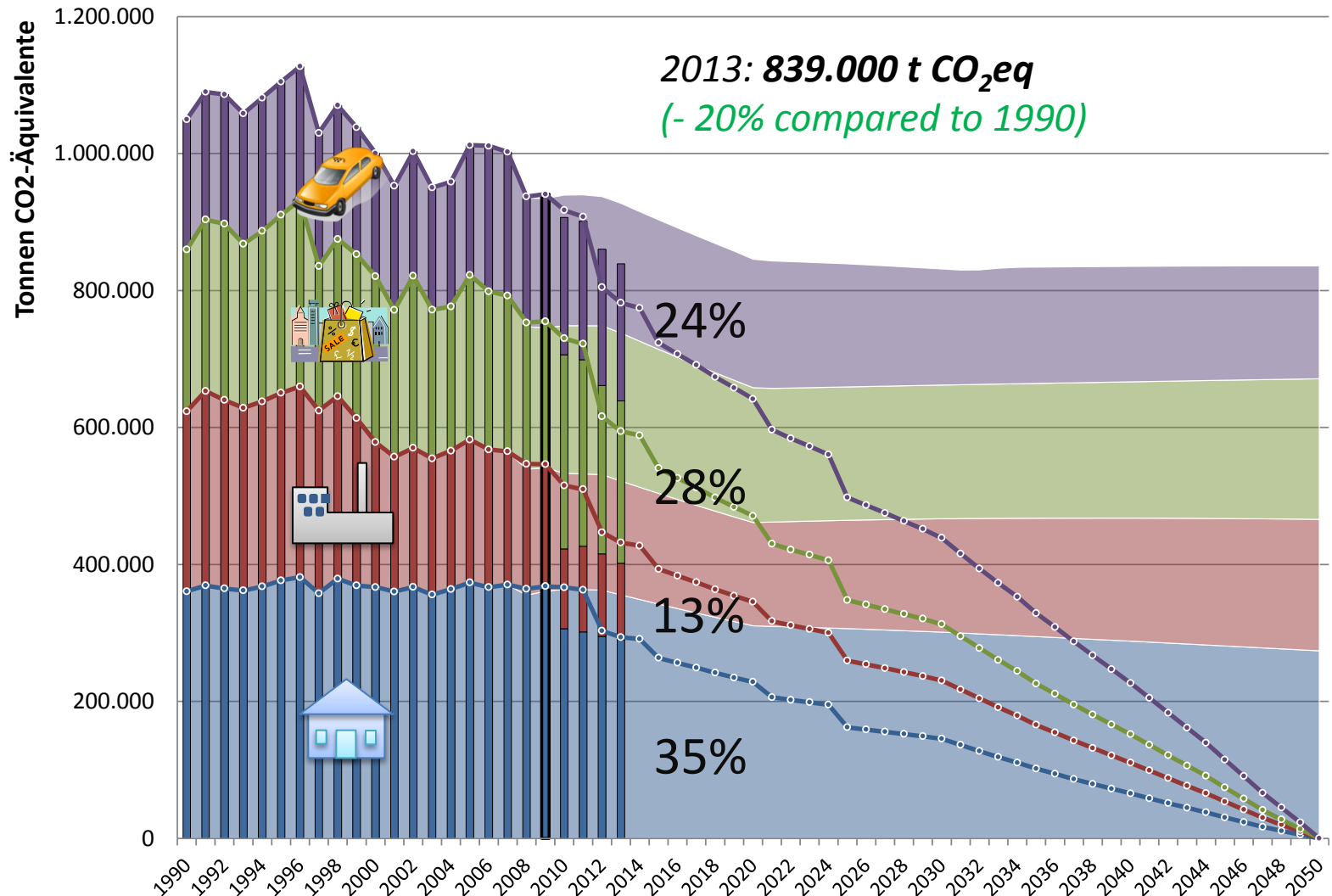
- 98% of households connected to central district heating network
- Heat & electricity from local power plant (cogeneration)
- Utility is a 100% municipal subsidiary
→ direct influence



→ Need for change!



The path to CO₂-neutrality



Individual measures by member companies

Energy management and efficiency



Industry

Modernization of street lighting (LED)



City of Flensburg

PV plant on roofs



University of Flensburg

Energetic optimization of buildings



Housing Cooperatives

Hybrid Busses & attractive public transport



Bus service operators

Modern building technology (e.g. steam generation)



Hospitals

Information and motivation to take action



Wir radeln zur Arbeit!

We are *still* cycling to work!



E-Mobility-Market 2014



Campaign and advice on saving energy in households



www.klimapakt-flensburg.de

FLENSBURG AUF KLIMAKURS!

KLIMAPAKT FLENSBURG

vhs Volkshochschule Flensburg

verbraucherzentrale Schleswig-Holstein

www.klimapakt-flensburg.de • www.vhs-flensburg.de • www.verbraucherzentrale-sh.de

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bis 2050 CO₂-neutral

Cooperation with adult education centre and consumer advice centre



Incentive scheme for school projects



Flensburg's climate heroes



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Thank you for your attention!

Gefördert vom Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit aufgrund eines Beschlusses des Deutschen Bundestages

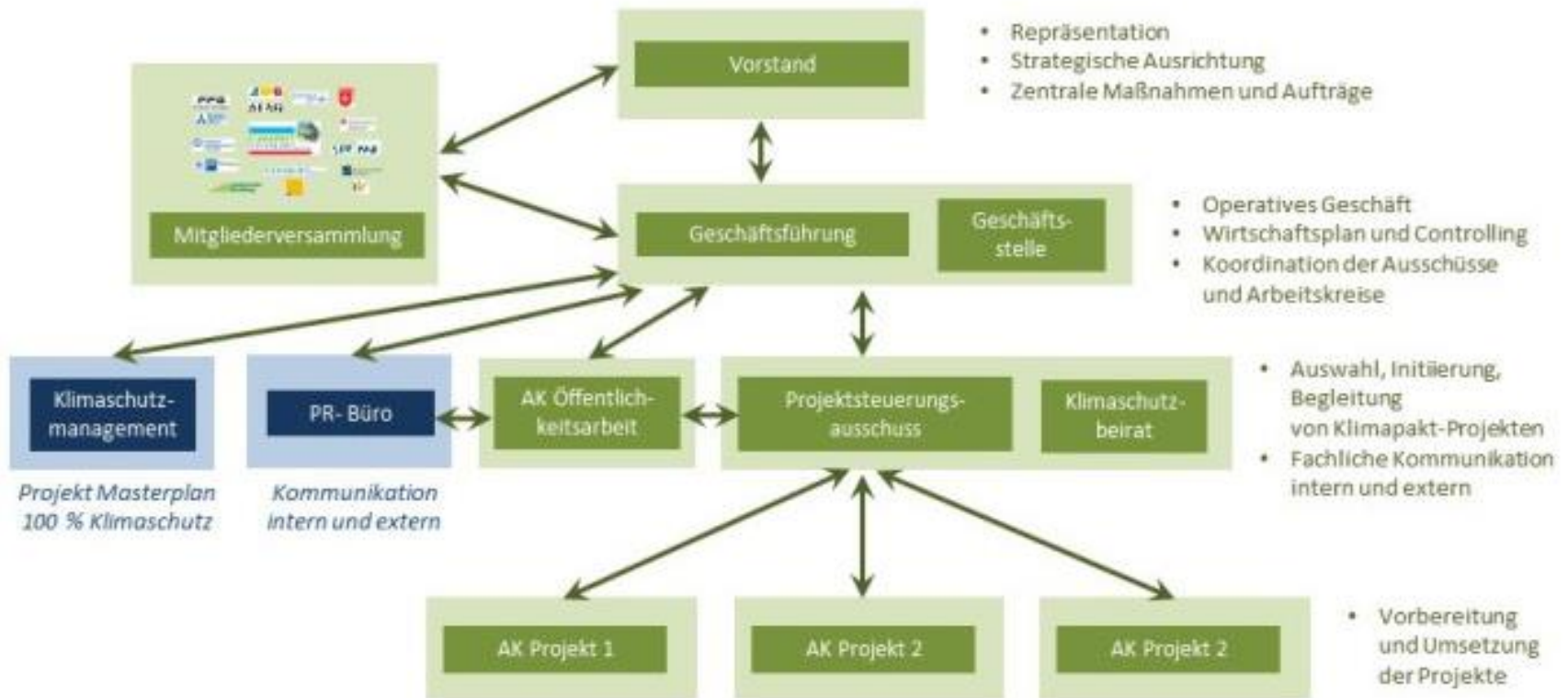


Green District Heating & Electricity

- Replacement of two old coal-fired boilers with modern gas and steam cogeneration boiler
 - 75 MW thermal and electrical each
 - Investment 140 Mio. €
 - 40% less CO₂ emissions
- New electrical boiler & heat storage
 - Using excess electricity („Power to Heat“)
 - 30 MW
 - Investment 2 Mio. €
- Modernizing of other boiler
- Substitution of fossil fuels by biogas, biomass (wood chips) & solar heat
- Decentralization as option?



A network for climate protection

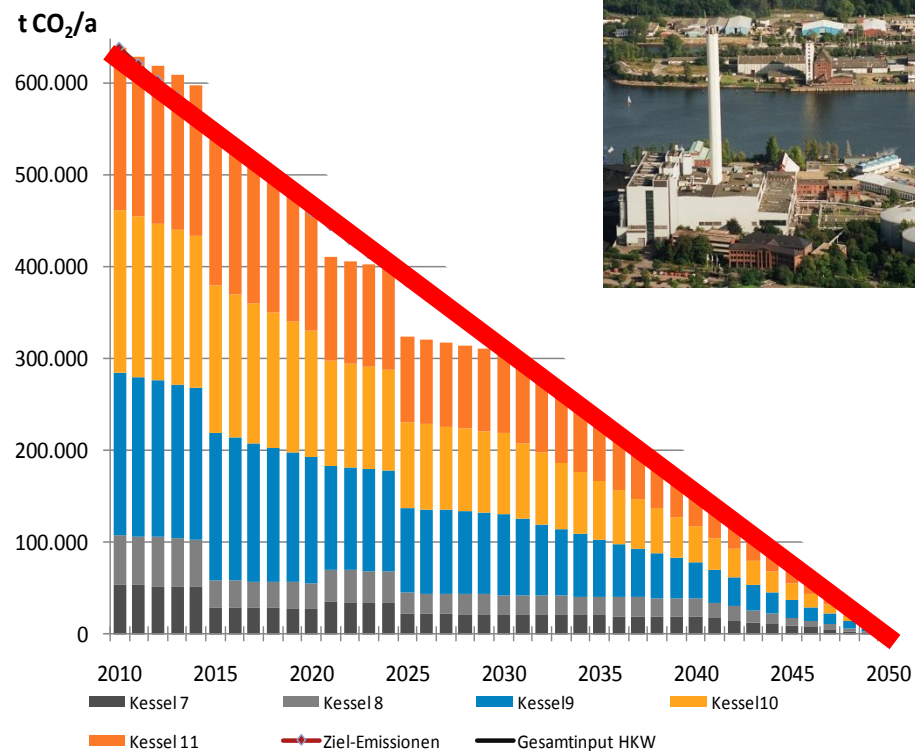


Elaboration of the climate protection concept

- 16 workshops, various preliminary and follow-up meetings
- Involvement of 194 participants from 50 organizations and the public
- Who? What? When? How much? How much does it cost?
- Integrated approach



Stadtwerke Flensburg: substitution of fossil fuels



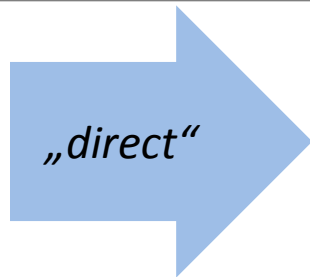
Sector information:

- Local energy utility in Flensburg
- High share of coal
- Combined heat and power

Main measures:

- New furnaces
- Substitution of fossil fuels

City of Flensburg: spheres of action



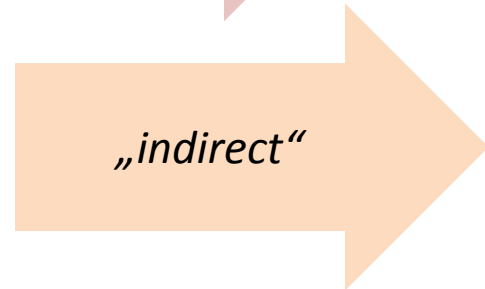
„direct“

Municipal buildings
Employee mobility
Climate-friendly procurement



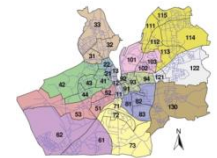
„direct via
fully-owned
companies“

Municipal vehicle fleet
Sewage and waste, street lighting
Supply of electricity and district heating
Public transport



„indirect“

Planning of transport infrastructure
Urban planning
Concepts for the renovation of city-districts



„External influence“

Education and awareness raising
Cooperations and networking