



Copenhagen As World's First Carbon Neutral Capital by 2025

Livable Cities Symposium, Izmir 20th November 2014

Consul General Jesper Kamp, The Royal Danish Consulate General in Istanbul

Transition to a green growth economy

A large wind turbine is the central focus of the image, positioned on the left side. The turbine has three blades extending outwards. The background is a bright blue sky filled with soft, white clouds. The overall scene is clean and modern, representing renewable energy.

Goal: Denmark - a fossil-free society by 2050 by the new Danish Energy Agreement, March 2012

More than 35% renewable energy in final energy consumption by 2020

Approximately 50% of electricity consumption to be supplied by wind power by 2020

More than 7.5% reduction in gross energy consumption by 2020 (compared to 2010 level)

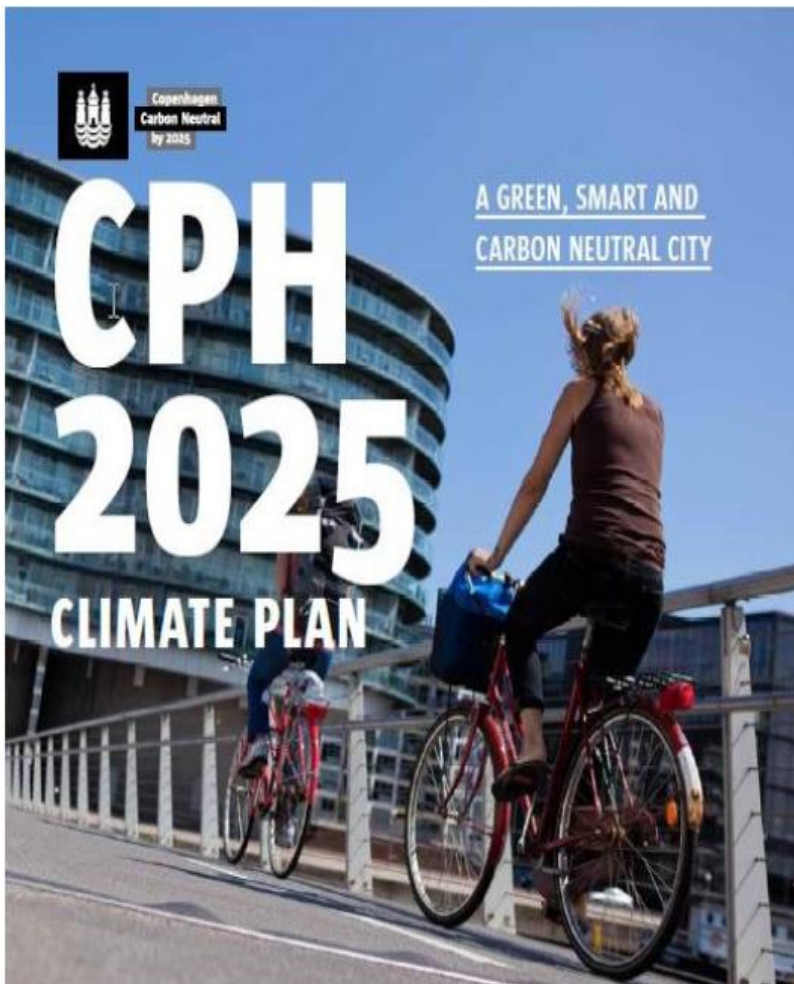
40% reduction in greenhouse gas emissions by 2020 (compared to 1990 level)

Coal to be phased out by 2025 (recently changed from 2030 to 2025)

50% reduction target of energy consumption in existing buildings by 2050 (compared to 2013 level)

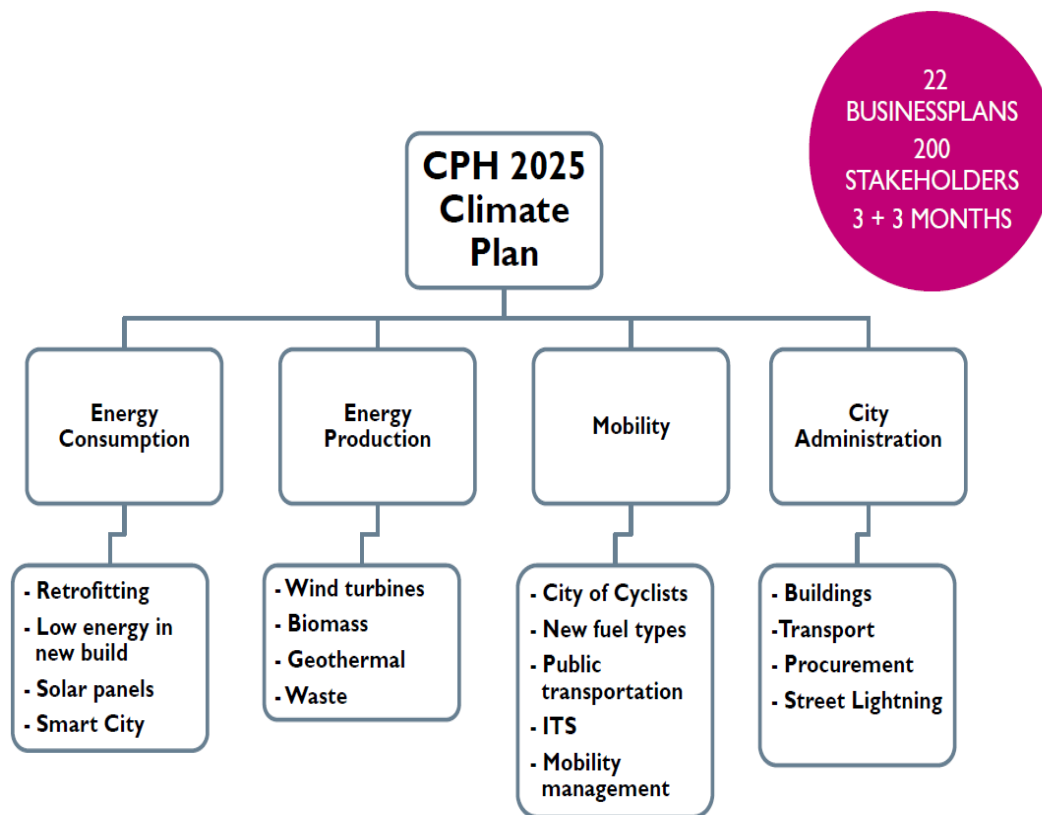


COPENHAGEN 2025



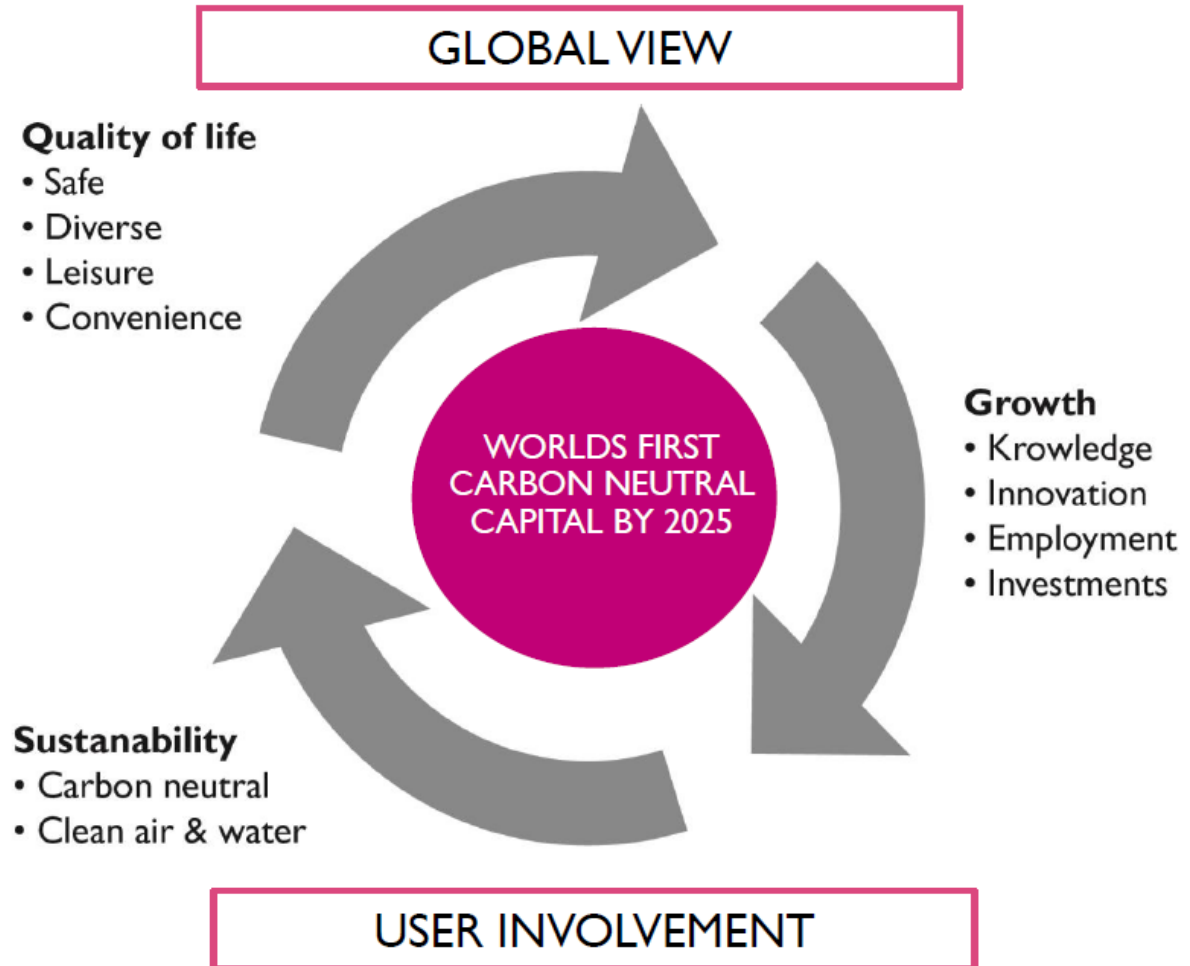
Vision:

- Carbon neutral city in 2025 through:





THE COPENHAGEN STORY



COPENHAGEN AT THE TOP



"Copenhagen, Most Liveable City 2013 + 2014"
MONOCLE

"European Green Capital 2014"
THE EUROPEAN COMMISSION

"Copenhagen Named World's Healthiest City" CNN, 2014

"Copenhagen, the greenest major city in Europe"
SIEMENS GREEN INDEX

"Copenhagen - Smartest City in Europe"
BOYD COPEN - SMART CITY INDEX 2012 + 2013





Swimming at the Copenhagen Harbor





Copenhagen is the leader in green economy – and urban green growth is a good business

WORLD CLASS INITIATIVES WITH POTENTIAL FOR KNOWLEDGE SHARING AND EXPORT

- 2020 Low Energy Class buildings
- 100 windturbines
- 98 % of all heat consumption from district heating
- 100 % renewable energy in energy production
- Bicycle infrastructure and our many bikers
- Electric Vehicles in our fleet of cars
- Climate Adaptation



WORLD CLASS
INITIATIVES IN
COPENHAGEN



ENERGY CONSUMPTION

MAJOR GOALS FOR 2025

- 20 pct. reduction in heat consumption
- 20 pct. reduction of electricity consumption in commercial and service companies
- 10 pct. reduction of electricity consumption in households
- Installation of solar cells





ENERGY PRODUCTION

MAJOR GOALS FOR 2025

- Carbon neutral district heating in CPH
- Electricity production is based on wind and biomass
- Plastic waste is separated.
- Biogasification of organic waste





ENERGY PRODUCTION

MAIN INITIATIVES

- 100 wind turbines before 2025; onshore and offshore
- Production of heat and power based on biomass
- Geothermal, heatpumps and solar heat
- Waste in the energy system
 - New high-tech waste treatment centre
 - Recycling of plastic and organic waste





MOBILITY

MAJOR GOALS FOR 2025

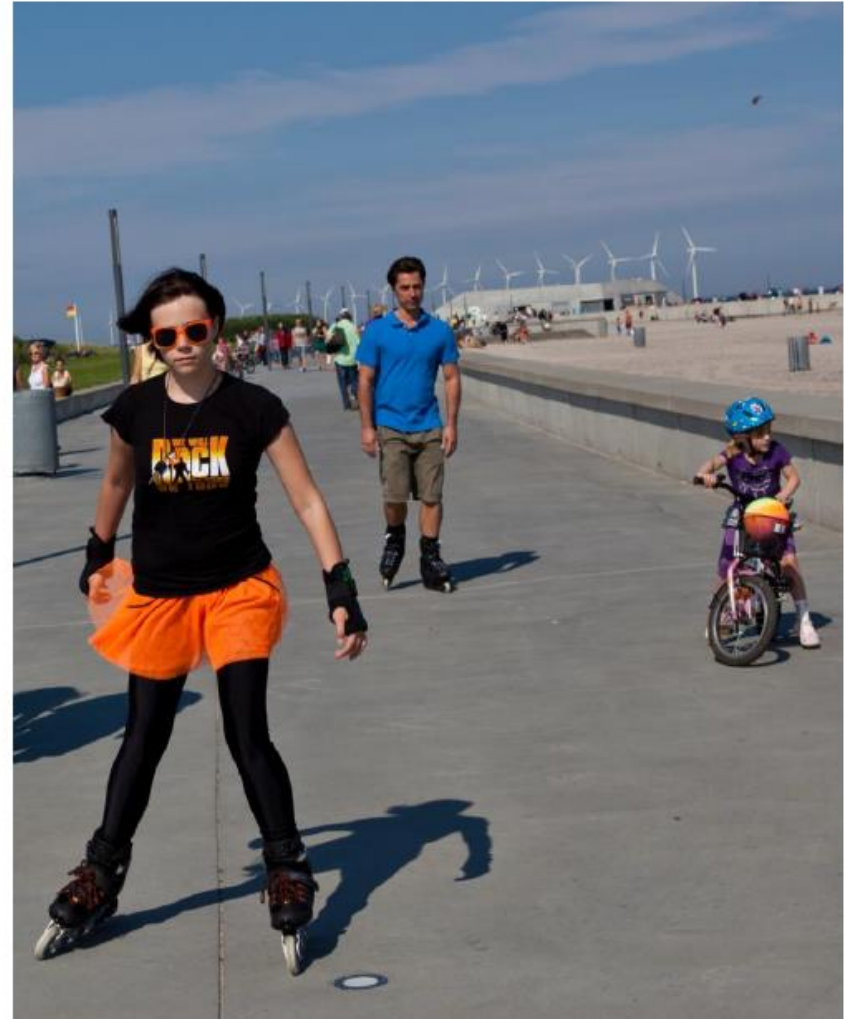
- 75 pct. of all trips in Copenhagen are on foot, by bike or public transport
- 50 pct. of trips to work or school in Copenhagen are by bike
- 20 pct. more passengers use public transport
- 20-30 pct. of all light vehicles run on new fuels
 - electricity, hydrogen, biogas or bioethanol
- 30-40 pct. of all heavy vehicles use new fuels



MOBILITY

MAIN INITIATIVES

- On the way to being the world's best city for cyclists
 - PLUSnet of cycle tracks with three lanes
 - Cycle Super Highways
- Cars on electricity, hydrogen and biofuels
 - Development and demonstration projects
 - Electric charging points and hydrogen filling stations
- Wider use of public transport
 - Experiments with electricity and biofuels in buses
- Intelligent traffic management improves traffic flow





CITY ADMINISTRATION INITIATIVES

MAJOR GOALS FOR 2025

- Reduce energy consumption in municipal buildings by 40 pct.
- Municipal new build meet 2020 Low Energy Class
- Vehicles run on electricity, hydrogen or biofuels
- The energy consumption for street lighting is halved
- 60,000 sq meters solar panels





CITY ADMINISTRATION INITIATIVES

MAIN INITIATIVES

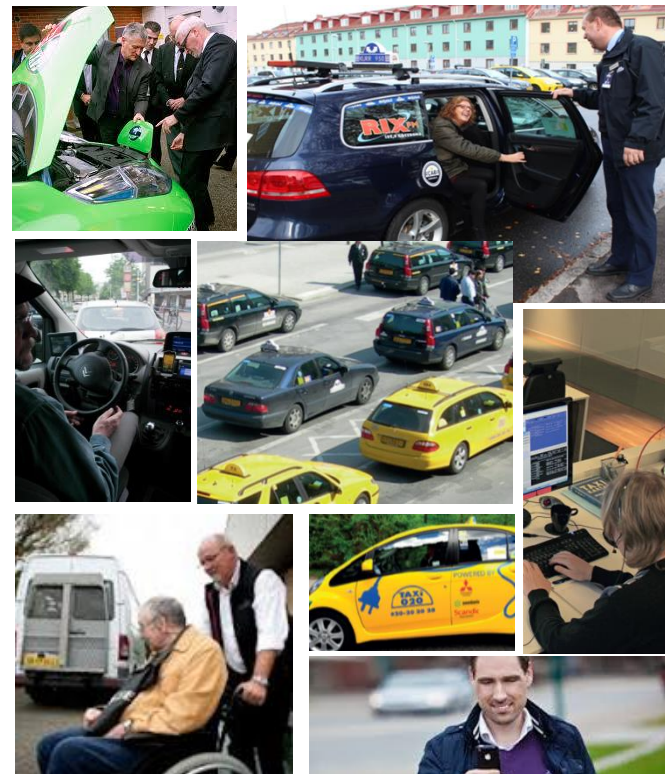
- Energy retrofitting of existing buildings
- New buildings with low energy consumption
- Pilot projects for climate retrofitting and climate-adapted low-energy new build
- Installing solar panels on municipal buildings
- Energy efficient street lightning



EFFICIENCY IN PUBLIC TRANSPORT

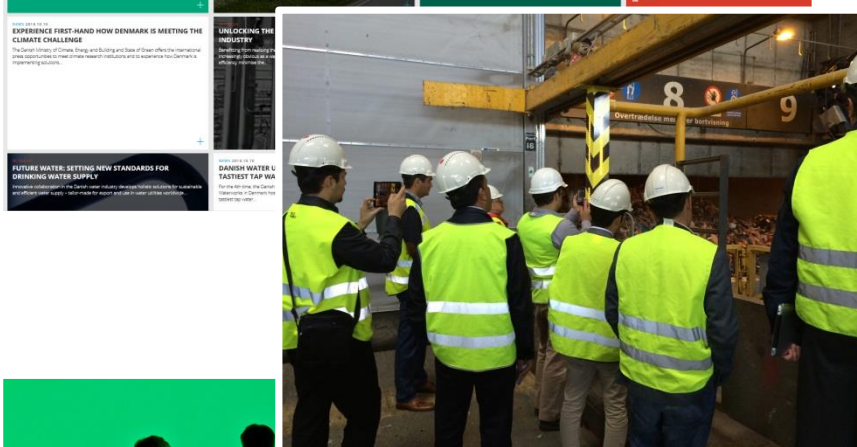
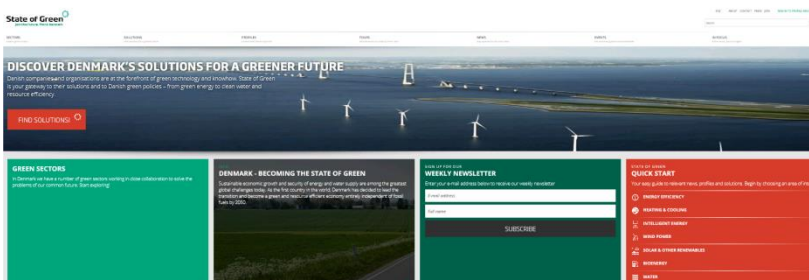
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„GreenTaxi“ has achieved a substantial reduction in CO2 emissions by analyzing detailed trip and vehicle data of taxis in conjunction with accompanying training courses.





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House of Green:

- An interactive showroom and visitors' centre in the heart of Copenhagen



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THANK YOU FOR LISTENING!

Q&A