COPENHAGEN - GREEN STRATEGY AND URBAN DEVELOPMENT

30-10-2013, Søren Nørgaard Madsen
COPENHAGEN - ONE OF THE MOST LIVEABLE CITIES IN THE WORLD

“It is incredibly easy to get about this compact capital and to access the Copenhagen quality of life.”

(Monocle, winner of most liveable city)

“Copenhageners don’t simply preach the ‘progressive city’ ethos, they live it.”

(New York Times)

“If we want to promote cycling in big cities in the UK, we should do as the Danes do.”

(The Guardian)
CHANGING DEMOGRAPHICS

EXPECTED 100,000+ MORE INHABITANTS

Population growth in Copenhagen by 2025

20%
Decoupling carbon emission from population growth
A SMART CITY VALUE CHAIN

Quality of life
- Safe
- Diverse
- Leisure
- Convenience

Sustainability
- Carbon neutral
- Clean air & water

Growth
- Knowledge
- Innovation
- Employment
- Investments
A SMART CITY IN A KNOWLEDGE-BASED ECONOMY
A SMART CITY IS A CITY THAT THINKS ABOUT HOW IT WORKS

**Growth**
- A city that is adapting to current and future challenges and demands
- A city that learns to handle changing demographics
- A city that creates an attractive place to live and work

**Sustainability**
- A city that makes intelligent, efficient and sustainable use of natural resources
- A city that decides on and controls the necessary public infrastructure
- A city that is able to deliver in a low carbon economy

**Cooperation**
- A city that can work with private expertise and excellence in efficient sustainable service provision
- A city that can make use of private companies to implement innovative solutions for the challenges ahead
THE 2025 CLIMATE TARGET

CARBON EMISSION REDUCTIONS

- Baseline
- CPH 2025 Climate Plan

- New initiatives
- Energy efficiency
- Solar cells
- ITS and mobility
- Public transport
- New fuels
- City for Cyclists
- City administration initiatives
- Separation of plastic from waste
- New renewable based CHP production
- Windturbines

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CPH 2025 CLIMATE PLAN

- Work with targeted use of data in solving problems
- Work with new technology or known technology in new ways
- Work with efficient use of the Municipality’s or city’s resources
- Work with new ways of involving citizens or businesses
CPH 2025 CLIMATE PLAN

- Work with innovation or technology based growth
- Work with public-private partnerships
- Solve more than one problem

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INVESTMENTS IN COPENHAGEN 2013-2025

Public Investments
City of Copenhagen 0,4 bn€

Private Investments
Direct Investments 3,25 bn€

Private Investments
Energy and Climate Investments 32,8 bn€
Innovative PARTNERSHIPS AND CLUSTERS

KØBENHAVNS UNIVERSITET

SIEMENS

AALBORG UNIVERSITET

ROCKWOOL

ABB

Power and productivity for a better world™

HENNING LARSEN ARCHITECTS

Schneider Electric

DTU

Technical University of Denmark

COPENHAGEN CLEANTECH CLUSTER

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Good reasons to locate in Copenhagen

- Copenhagen offers access to 3.8 million people, 11 universities, 150,000 students and 10,000 PhD students
- Copenhagen is the home of Europe's most efficient airport offering supreme connectivity and direct flights to 140 destinations. The world's best metro takes you from the airport to the city centre in 15 minutes
- In 2012, the World Bank hailed Denmark as Europe’s easiest place to do business. Foreign companies benefit from many free and discounted start-up services.
- Copenhagen is the world leader in green growth, according to the OECD. But at the same time as its economy and population are growing, the city's greenhouse gas emissions have dropped more than 20 percent since 2005
- Creative businesses in Copenhagen employ 70 percent more people than the European average
- Surveys show Danes are more satisfied with their lives than any other OECD country. Denmark has been named as the world's least corrupt country and the second most egalitarian society

Be part of Copenhagen Smart City

Copenhagen invites businesses to develop and test new smart city solutions. In Copenhagen, you will become part of a test centre that will assist you in finding the right partners, deploy and test your solutions in the city and ultimately make your solutions part of the Copenhagen sustainable brand.

Copenhagen Cleantech Cluster
www.cphcleantech.com
info@cphcleantech.com

Copenhagen Capacity
www.copcap.com
info@copcap.com

City of Copenhagen
www.kk.dk/greengrowth
copenhagensusions@olff.kk.dk

COPENHAGEN

Big Data Infrastructure Idea Competition
MASSIVE INVESTMENTS IN GREEN URBAN DEVELOPMENT

Knowledge city 2012 – 2025
Landowner:
- Science Campus
- Copenhagen University Hospital
- Extension of Panum

Carlsberg: by 2035
3,000 apartments – 10,000 workplaces
Landowner:
Keywords:
- CO2-neutral buildings
- Integration of a socially and environmentally sustainable urban development

The South Harbour area: by 2025
9,000 apartments – 22,500 workplaces
Keywords:
- Low-energy area
- Dense integrated urban area
- High architectural standards and varied types of buildings and stories

The North Harbour area: 2011 – 2050
40,000 citizens – 40,000 workplaces
Landowner:
Keywords:
- Energy neutral buildings
- Sustainable energy supply
- Cooling
- Local diversion of rainwater

Ørestad: by 2030
25,000 citizens – 80,000 work- and studyplaces
Developer: CPH City & Port Development
Keywords:
- Campus area
- Multi-arena – culture and sports
- Business Centre
- Hotel and conference area close to airport and direct connection to Sweden

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THE WORLD’S BEST BICYCLE CITY

- 55% of all Copenhageners use their bike on a daily basis

- We have invested more than 100 mio. euro over the last decade in improving the bike infrastructure
METRO

• Investment of app. 4 billion euro (2007-2020)
• Airport <-> City centre in 14 minutes
• Metro circle line connecting all inner city neighbourhoods to open in 2018
• Nordhavn line to open in 2020
• Sydhavn line to be decided this year
ØRESTAD URBAN DEVELOPMENT

KEY:
• Approximately 1.1 million m² building is listed
• 3,100 dwellings
• 6,000 inhabitants
• 9,500 (2008) jobs

POTENTIAL:
• 3.1 million m² construction
• 25,000 inhabitants
• 80,000 working places and students
NEW DEVELOPMENT AREA: CARLSBERG

FACTS
• Developing over the next 25 years
• 3,000 new dwellings
• 10,000 new workplaces

SUSTAINABILITY
• Carbon neutral area
• Low energy buildings
• Social and environmental sustainability
• Public transportation and bicycles
• High density housing
• Green architecture
NEW DEVELOPMENT AREA: NORDHAVN

POTENTIAL

- Nordhavn is situated close to the inner city
- Area of 200 ha + 100 ha to be reclaimed
- Nordhavn today, container terminal, Cruise terminal and other harbour related industries
- At least 600,000 m² in the first stages, developed before 2030
- A dense city, 3-4 mio. m² for the whole area, developed in 50-60 years
- 40,000 inhabitants
- 40,000 working places

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COPENHAGEN – YEARLY ACTION PLANS

INVESTMENT SURVEY

- It pays to invest in urban development!
- Timely municipal and private investment
- Coordination of investments

ACTION PLANS

- Provide an overview of past investments and investment needs
- Ensure timely public investments in municipal services
- Action strategies for city development
- Promoting dialogue and increase investor certainty
COPENHAGENIZATION

WIKIPEDIA

"Copenhagenization is a design strategy centered around making a city more accessible to bicyclists and pedestrians, and less car dependent ... Copenhagenization is how to improve the quality of sustainable urban life"
SOLUTIONS FOR SUSTAINABLE CITIES

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SOLUTIONS FOR SUSTAINABLE CITIES

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Thank You!

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