



Copenhagen  
Carbon Neutral  
by 2025

# Copenhagen Climate Plan









# ” Green Wave” Through Traffic Lights



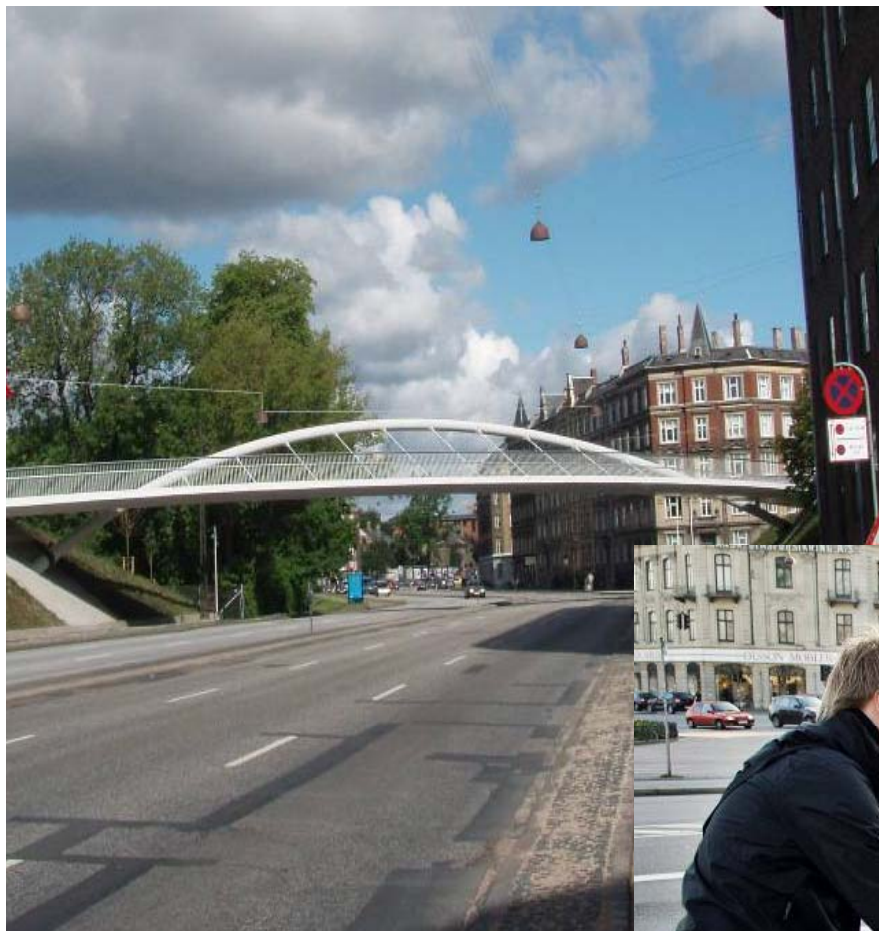
CLIMATE CAPITAL  
COPENHAGEN



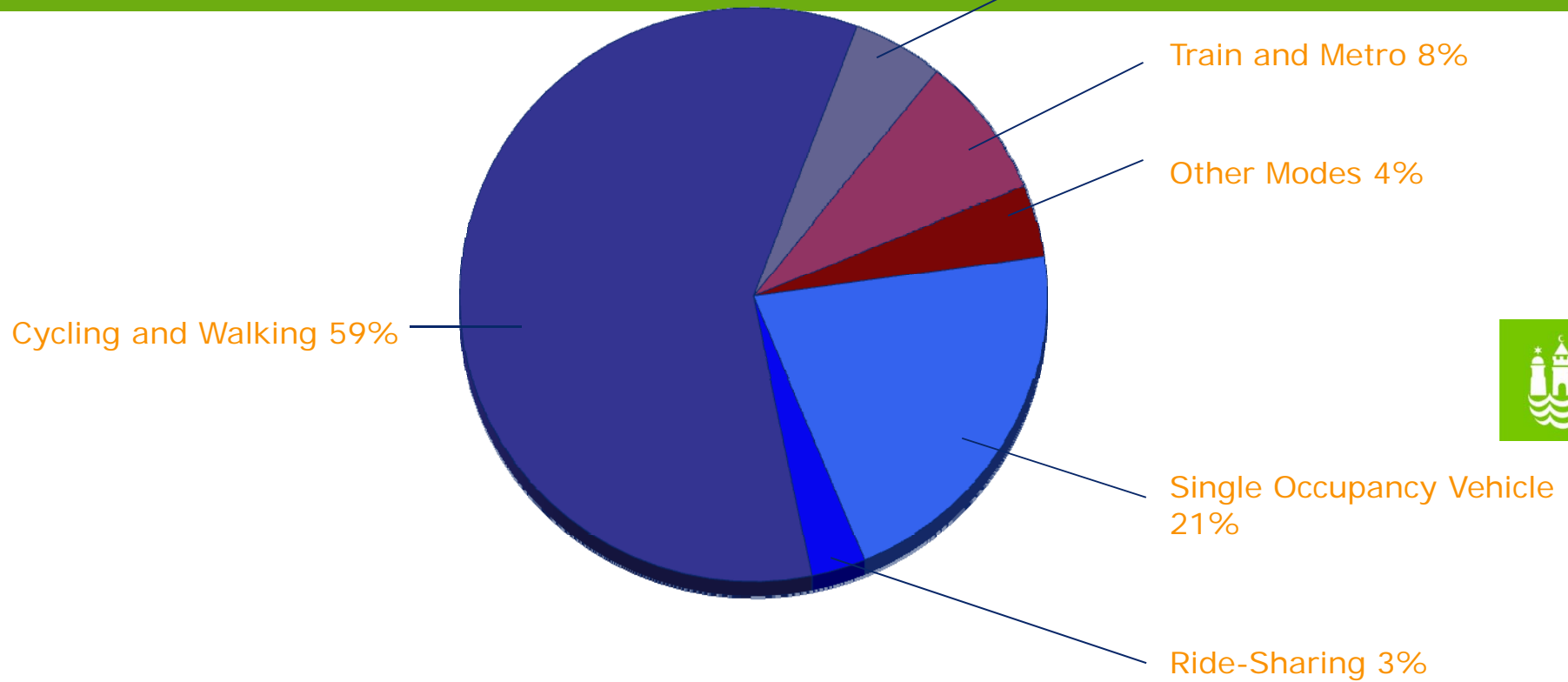




CLIMATE CAPITAL  
COPENHAGEN



# Copenhagen Modal Split - All Trips



**COPENHAGEN  
TOGETHER**

CITY OF COPENHAGEN  
The Technical and  
Environmental Administration

# What Copenhagen has already achieved



## Energy production

- One of the largest oldest and most successful district heating systems in the world - 98 % of households connected
- Surplus energy from electricity production is reused
- Wind turbines on the Middelgrund

## Waste management:

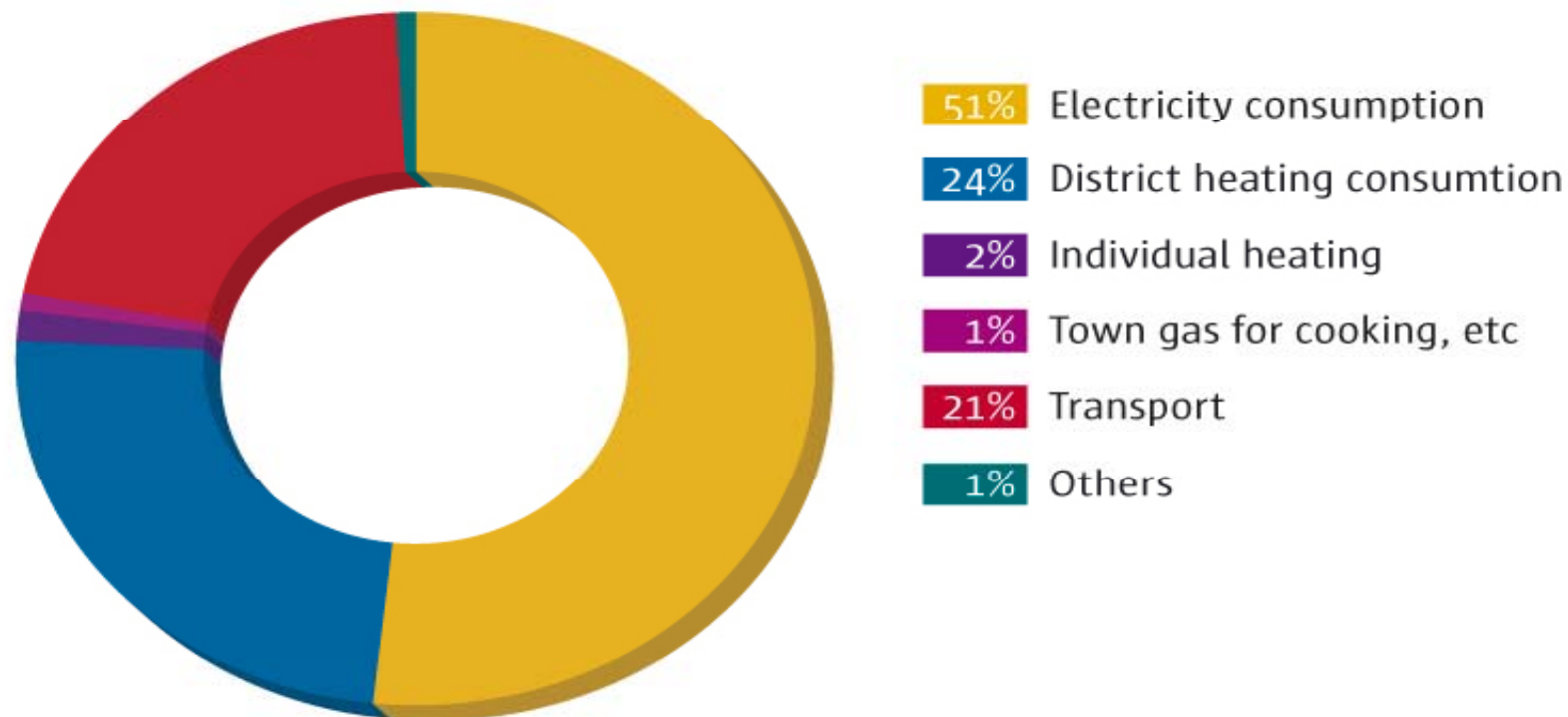
- One of the world's best waste management systems
- 90 % of all building waste is reused and 70 % of all household waste is incinerated

## Green mobility:

- ½ mio. bikes in the city
- 55 % of Copenhagensers use their bike every day



# CO<sub>2</sub>-emissions 2005



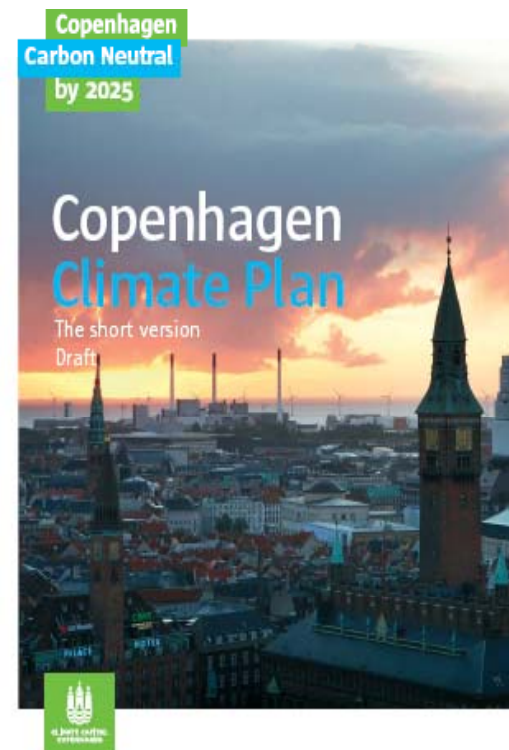


# Copenhagen Climate Plan



50 initiatives in order to reduce carbon emission by additional 20% between 2005 and 2015

Scenarios for carbon neutrality



2015 20 % CO<sub>2</sub>-reduction



2025 CO<sub>2</sub>-neutral Copenhagen

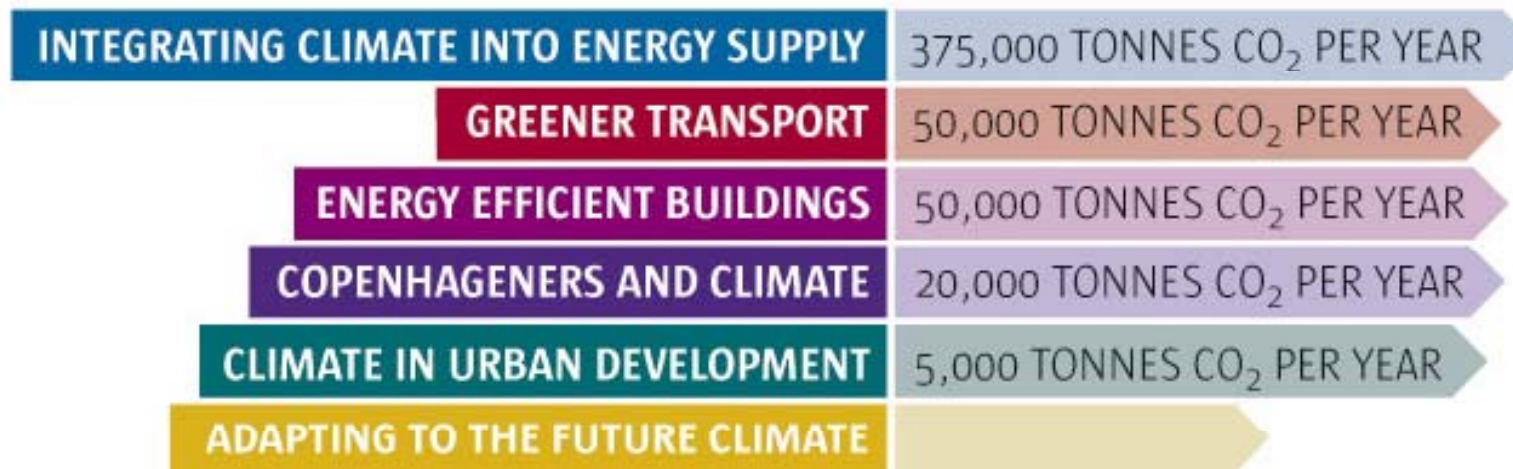


# Basis Statements



- Dynamic:
  - "A changing world"*
  - "Not depending on one factor"*
- Integration and synergies:
  - "A better urban life"*
  - "Extension of other goals"*
- Partnership:
  - "Citizens, companies and state"*

# A dedicated effort to the 2015 goal



➔ A healthy city and a good urban life



# Energy



## Initiatives e.g.:

- Biomass through partnerships
- Wind and geothermal energy
- Integral energy system
- More effective energy production

## A better urban life:

- Proper green electric power
- Constant energy supply
- Cheaper energy
- A cleaner Copenhagen

75 %  
of total  
CO<sub>2</sub>-  
reduction

# Energy supply – initiatives

## **Biomass:**

- → Energy initiative 1: 100% biomass at Amager power station unit 1
- → Energy initiative 2: Biomass at Amager power station unit 3
- → Energy initiative 3: A new biomass based CHP situated at Amager

## **Other renewable energy sources:**

- → Energy initiative 4: Wind turbines
- → Energy initiative 5: Geothermal heat - expansion of the facility at Margretheholm

## **Energy efficiency:**

- → Energy initiative 6: Flue gas condensation at incineration plants
- → Energy initiative 7: Low inlet temperature in the district heating system





# Energy supply – initiatives

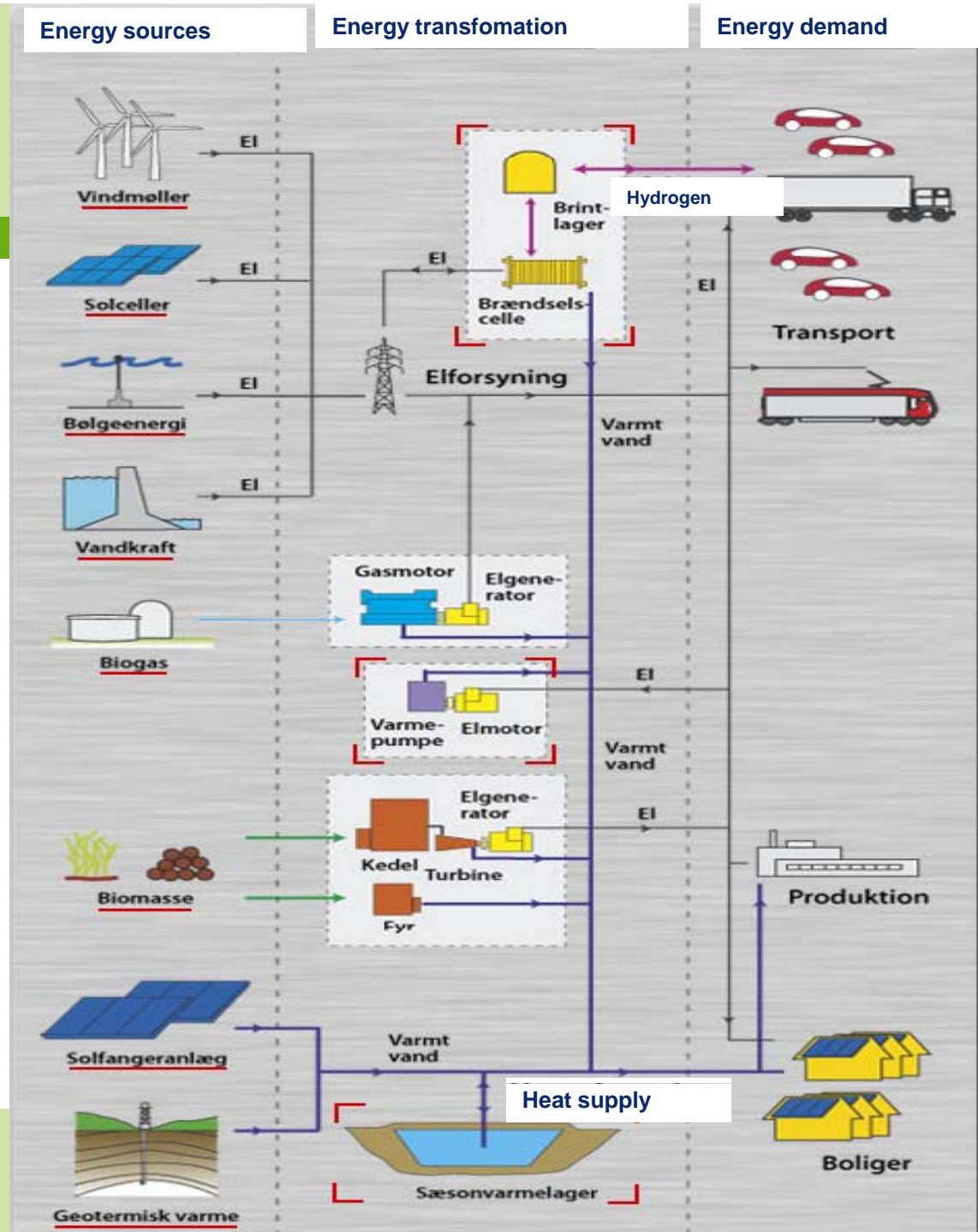
## Biomass analyses

- Demand / recourses
- Market / prices
- Sustainable criteria



# Energy 2025

## Integrated and intelligent energy systems





# Buildings



## Initiatives e.g.:

- Hotmapping
- Energy-efficient operation and renovation
- Counselling for companies
- Co-operating on public buildings

## A better urban life:

- A better indoor environment
- Health, quality of life and learning
- Attractive residential and commercial buildings
- Investments will recoup themselves

10%  
of total  
CO<sub>2</sub>-  
reduction

# Transport

10 %  
of total  
CO<sub>2</sub>-  
reduction



## Initiatives e.g.:

More bicycles

Convenient public  
transport

Less CO<sub>2</sub> from busses and  
garbage trucks

Congestion charges

Intelligent transport  
systems

## A better urban life:

Less noise

Better air quality

More exercise

Easy arrival



# Sustainable urban development



## Initiatives e.g.:

Intirety in the climate efforts

Minimization of urban sprawl - less transport

Tools for sustainability

Low-energy rating 1

## A better urban life:

Attractive urban environment

A greener city

A clean and healthy city

1 %  
of total  
CO<sub>2</sub>-  
reduction



# North Harbour

– the sustainable city of the future



- 3.500.000 sqm
- 40.000 living
- 40.000 working



# The Copenhageners



## Initiatives e.g.:

- Free counselling
- Young climate ambassadors
- Company partnerships
- City of Copenhagen - a climate-conscious workplace

## A better urban life:

- Lower power bills
- Knowledge of climate challenges
- Joint efforts

4 %  
of total  
CO<sub>2</sub>-  
reduction

# Adaptation

## Initiatives e.g.:

- Local drainage of rainwater
- Green roofs, wall fronts, trees
- Adaptation of buildings
- Climate adaption plan

## A better urban life:

- A city adapted for future requirements
- Green city
- Recreational areas



## CO<sub>2</sub>-neutral by 2025

Copenhagen is CO<sub>2</sub>-neutral when...  
Copenhagen's net CO<sub>2</sub>-emission is zero

That is to say, when...  
Copenhagen has reduced its CO<sub>2</sub>-emission to a minimum  
- and reduced the remaining volume of CO<sub>2</sub> with  
initiatives out of town

# Basis Statements



- Dynamic:
  - "A changing world"*
  - "Not depending on one factor"*
- Integration and synergies:
  - "A better urban life"*
  - "Extension of other goals"*
- Partnership:
  - "Citizens, companies and state"*





Thank you for your attention

More information:

[www.kk.dk/climate](http://www.kk.dk/climate) and [www.kk.dk/english](http://www.kk.dk/english)