

# E-mobility in Copenhagen

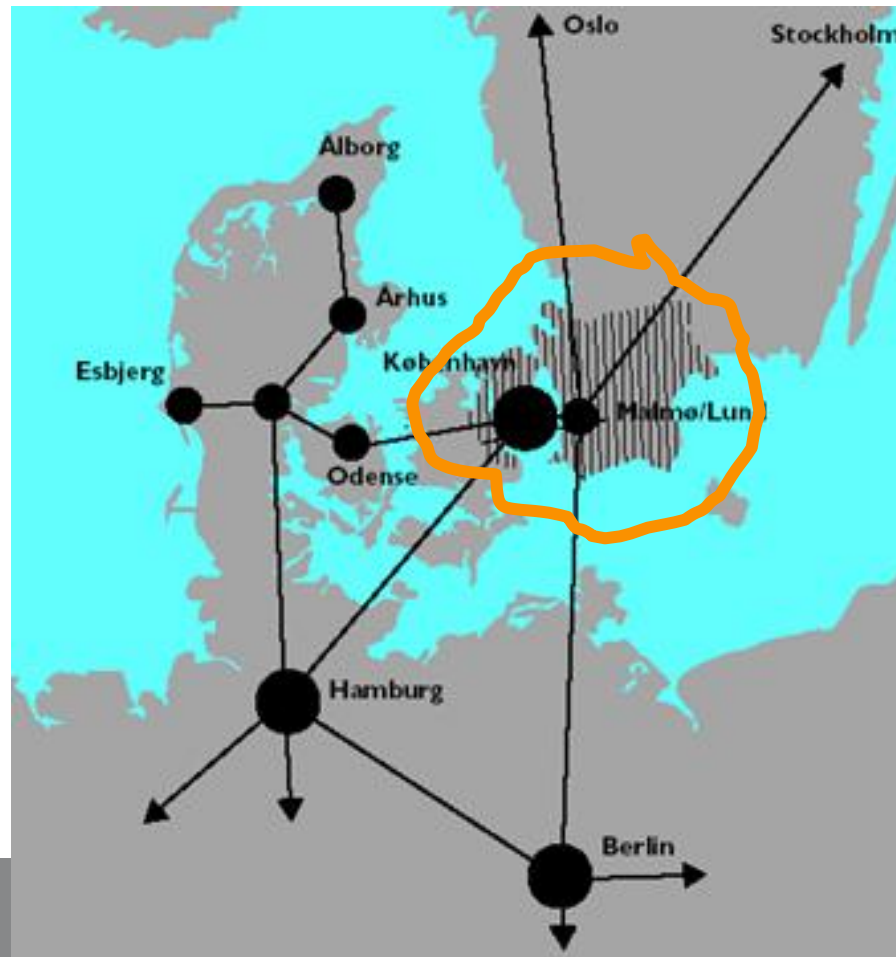
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City of Copenhagen



# The Øresund Region

2.4 mio. Inhabitants in the Region.

$\frac{3}{4}$  of these at the Danish side



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*The Municipality  
of Copenhagen  
is 10 times 10  
km on each side*



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## Copenhagen - The Municipality

540.000 inhabitants

350.000 places of work

63.000 students

Total area 88 km<sup>2</sup>



# Main Challenges

- A growing population
- A growing number of working places
- Economical growth under pressure
- Health
- Climate – CO2 emissions and climate protection
- The local Environment – noise, particles, NOx etc.



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# The vision - Eco-metropolis of the world



In 2025 Copenhagen will be rightly known as the capital city in the world with the **best urban environment**. Copenhagen will have become the Eco-metropolis of the world...

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# Copenhagen Climate Plan - 2009

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



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

- 50 actions
- 6 lighthouse projects →
- New windmills
- **Electrical and hydrogen cars**
- Climate upgrading of municipal buildings
- Training a new climate generation
- Lowest energy class for new buildings
- Pocket parks as breathing spaces



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# Green Mobility

## A new Sustainable Urban Mobility Plan

### 5 themes

City development / Urban planning

The green Transport Systems

The road system

Incentives / Mobility Management

Innovation

### 25 initiatives

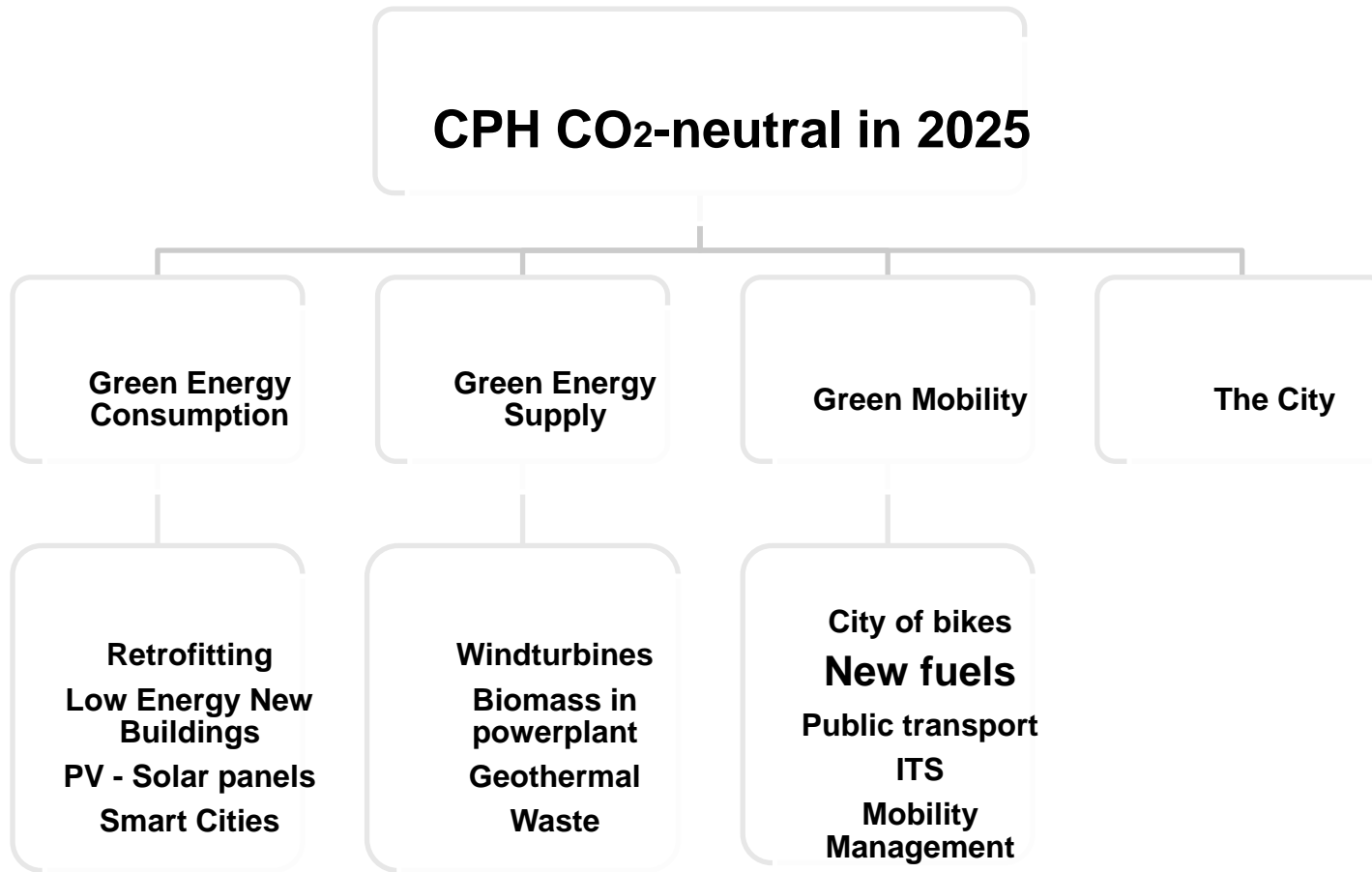
3 - 4 regarding e-mobility:

- Parking
- Infrastructure for e-mobility
- Green technologies - e-mobility
- Green zones (LEZ)





# CPH 2025: Climate Action Plan



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## Goal 2015

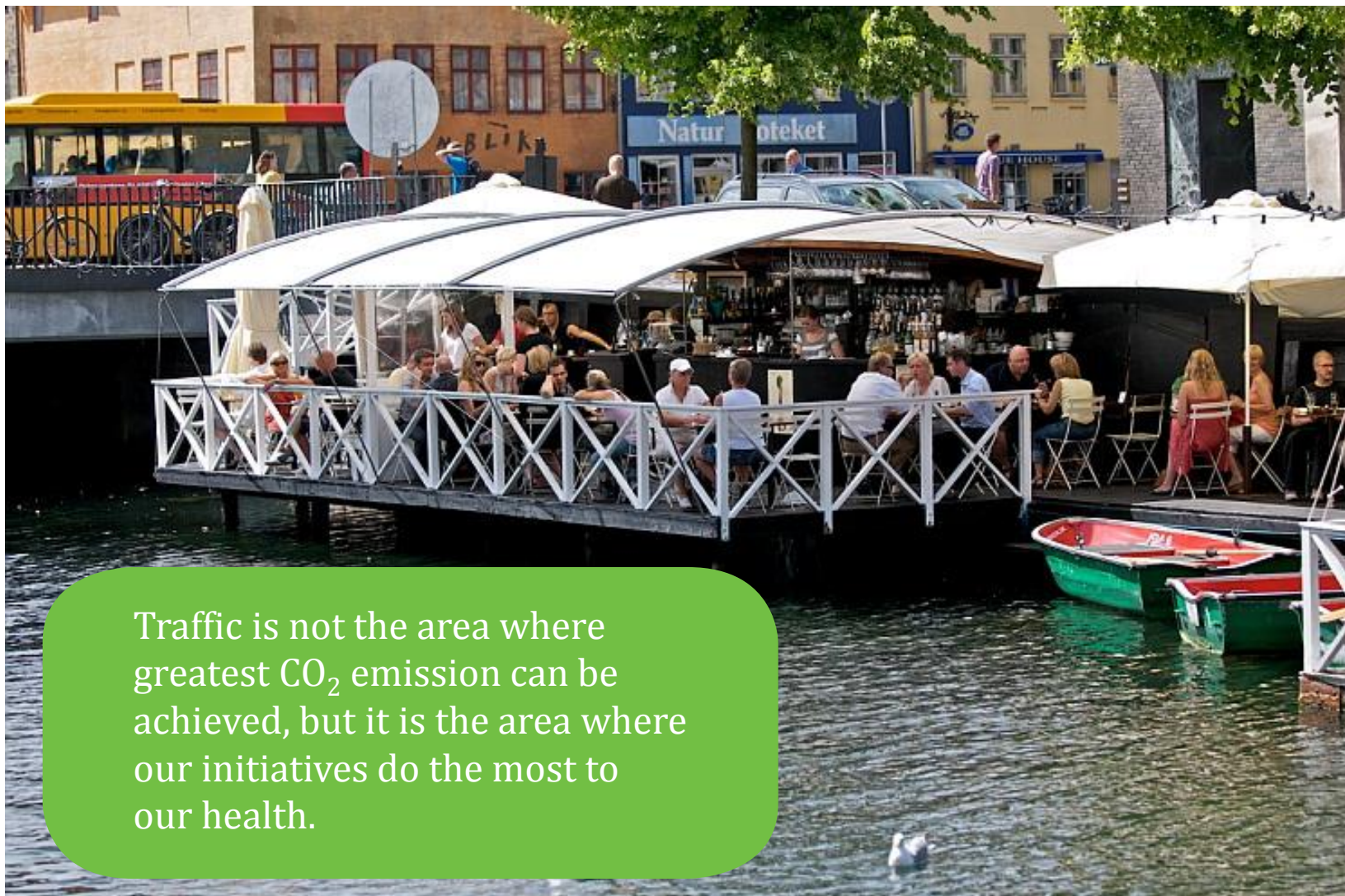
The City of Copenhagen will meet 10 % of its total CO<sub>2</sub> reductions via the transport sector.



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Traffic is not the area where greatest CO<sub>2</sub> emission can be achieved, but it is the area where our initiatives do the most to our health.

# Electric and hydrogen transport

**Denmark:**

Free of registration fee until 2015

**Copenhagen:**

Free parking on all public parking spaces.

Reserved parking at charging points

Free charging – so far!

Electric car sharing



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# E-Mobility: Electric & Hydrogen cars in the City Administration

## By 2010 we had:

- 8 hydrogen & 25 electric hybrid cars
- 1 hydrogen station

## In 2012, we will:

- Start-up: Regional Hydrogen and fuel cell partnership. Develop existing and new partnerships, e.g. regional Triple-helix
- Acquire 5-10 of the next-generation hydrogen car
- Up-grade hydrogen station (700 bar)
- Buy 200 electric vehicles

## In 2015 we will:

- 85 % of all public cars in City of Copenhagen will be EV's



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# Hydrogen filling station



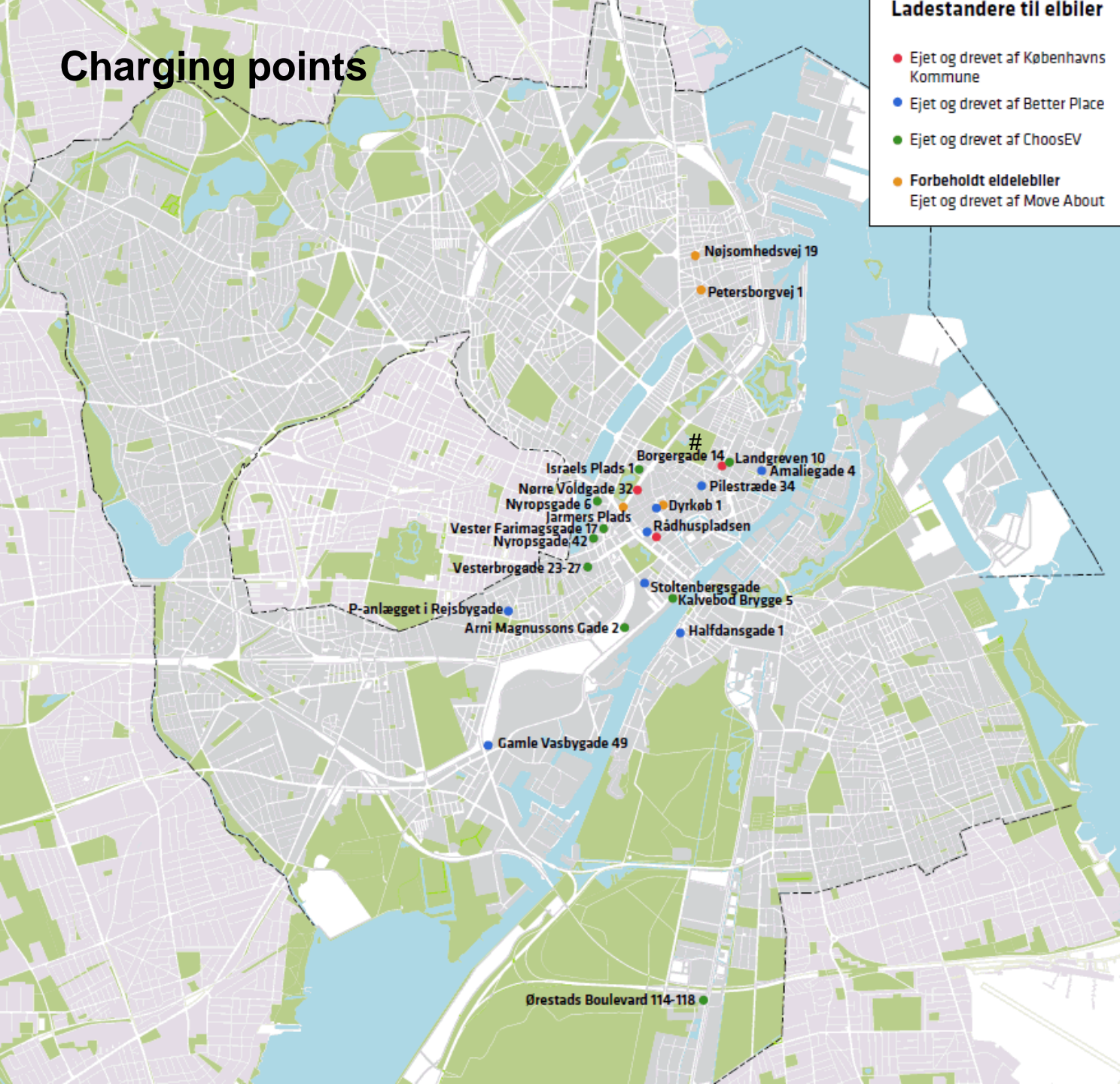
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# Charging points

- Ladestandere til elbiler**
- Ejet og drevet af Københavns Kommune
  - Ejet og drevet af Better Place
  - Ejet og drevet af ChoosEV
  - Forbeholdt eldelebler  
Ejet og drevet af Move About



# Quick Charge station



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# Electric car sharing



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Only a few Copenhagensers own an EV



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# We are committed

The Municipality of Copenhagen  
will lead in the purchase of  
electrical and hydrogen-  
powered cars.

**2010** All new cars bought by the  
municipality will be  
electrical or hydrogen-  
powered

**2015** 85% of the municipality's  
cars will be electrical or  
hydrogen-powered



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# Projects , Partnerships etc.

Green eMotion – European funded project

Hydrogen electric cars – declaration of intent with Hyundai/KIA Motors, Hydrogen Link and H2 Logic

National EV-network for cities and regions

Regional cooperation starting up in 2012

“Try an electric car” ([testenelbil.dk](http://testenelbil.dk)) / ChoosEV

Copenhagen Advisory Board for EV's



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