Welcome

Denmark's Green Transition

By State of Green
- a public private partnership



Anne Vestergaard Andersen, Communications Manager, ava@stateofgreen.com / @@stateofgreendk



State of Green - the green Denmark



Not for profit - Public-Private Partnership

Danish actors

600 companies, organisations, municipalities and institutions working with renewable energy, clean air, city solutions, water and environmental technologies

Green Solutions

- The Danish actors contribute with innovative technologies and solutions to the green transition in Denmark and in the rest og the world.
- Cases and projects are implemented all over the world.

State of Green is founded by:



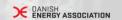














Denmark - a fossil fuel independent society by 2050



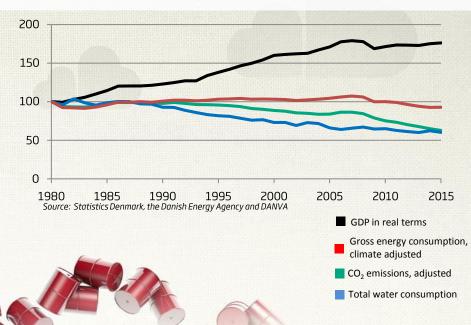
The Danish example (1980 = index 100)

Our economy has grown by more than 70% since 1980

Our energy consumption has remained the same

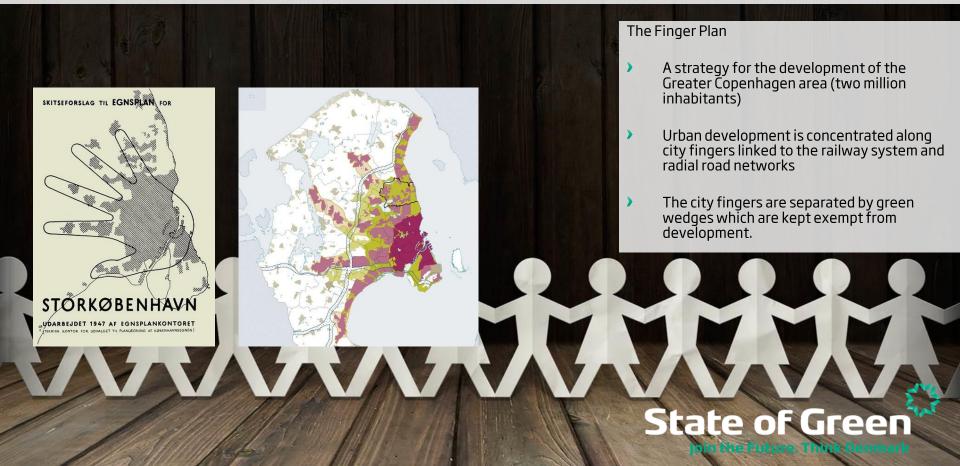
While CO₂ emissions have been reduced

And total water consumption has been reduced by 40%





Holistic long term planning



Copenhagen - One of the World's Most Liveable Cities

Challenges:

- Increased urbanisation: 80,000 more inhabitants in Copenhagen by 2025 compared to 2016 - a 14% increase.
- Increase in congestion: 27% more bicycle trips and 20% more cars.
- Building area expected to increase by 12%.

Solutions:

CPH 2025 Climate Plan with four focus areas:

- **Energy Consumption**
- Energy Production
- Green Mobility
- City Administration Initiatives

Three implementation periods, the first finished end of 2016.

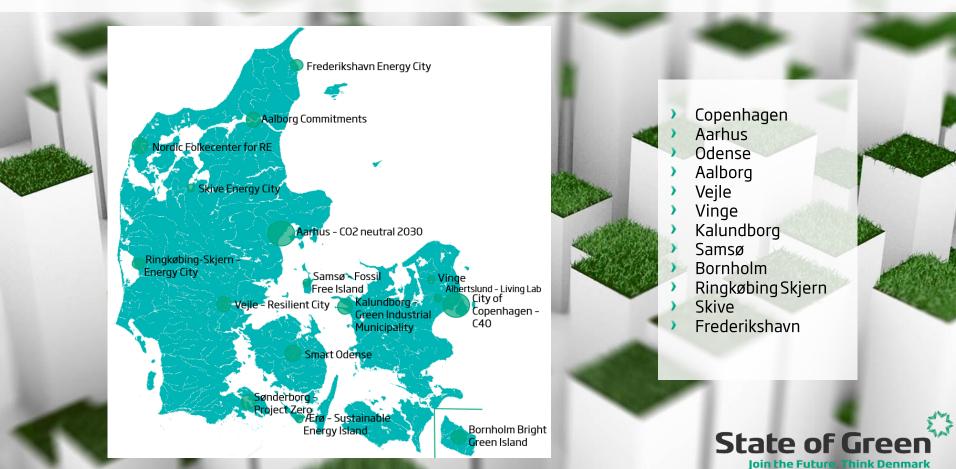
Next: Roadmap 2017-2020 – contains 62 new initiatives.



State of Green

oin the Euture. Think Denmark

Danish Sustainable Cities



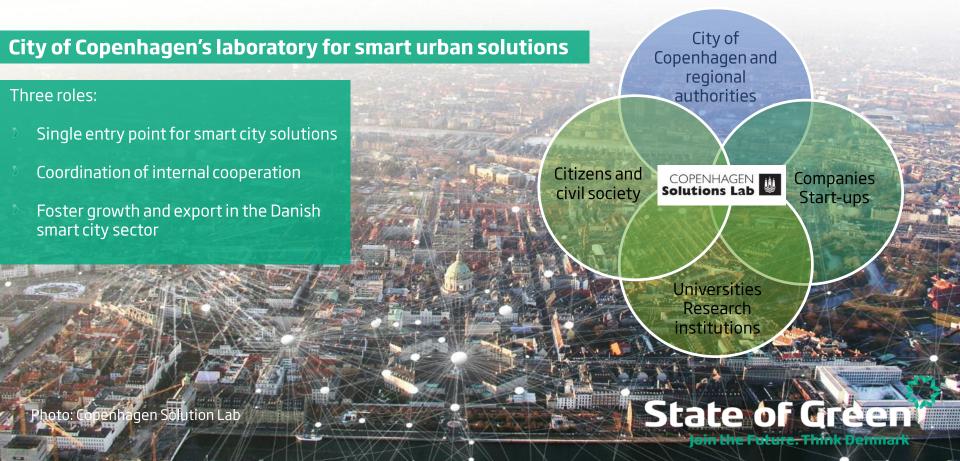


Nordhavn (North Harbour)





C Copenhagen Solutions Lab



Big Data - The Street Lab

Copenhagen's test area for smart city solutions in real urban space

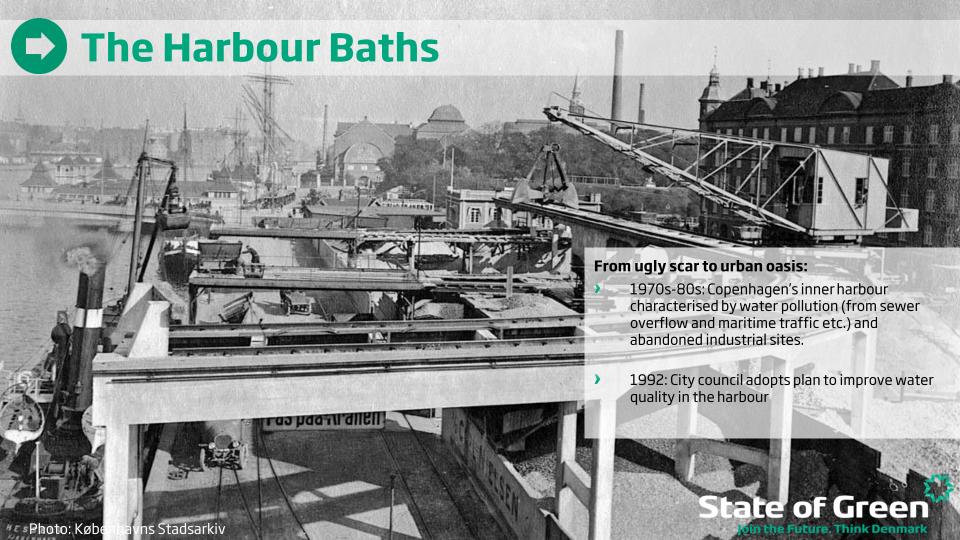
Cases that have been selected for testing in the first phase of the project are:

- Smart parking
- Waste management
- Air quality and noise monitoring
- Water management
- Mobility monitoring
- City wifi for tourists
- Data offloading
- Asset tracking
- Services for citizens and tourists

Photo: Copenhagen Solution Lab

State of Green

e Futore Think Denma







C) Flooding - A Challenge in Many Cities

- A 100 year extreme rain event in Copenhagen
 - > 150 mm rain in 2 hours
 - Damages close to 1 billion Euros
 - Damages to critical infrastructure
 - Heavier and more frequent rainfalls
- **High political attention** (both locally and nationally)
- **Led to change in legislation**, incl. financing mechanisms to enable more surface solutions

State of Green

Join Mic Future. Think Genman



Opportunities of Climate Adaptation



Copenhill - An incineration plant and ski slope in one



- App. a million customers hand in garden waste, used construction materials, and other kinds of waste for recycling which ARC treats in an ecocorrect manner
- 67% of waste is recycled, 27% is send for incinerations and less than 4% ends up in land fills.
- Waste to energy supply: relieve inhabitants of waste and supply heat and electricity to their households in return
- **332,000 tons** of waste which is converted into electricity and district heating supplying approximately **150,000 households**
- At the same time creating a recreational area for the citizens with a ski slope on the roof makes it welcoming to visitors

Thank you

