STARTING THE TRANSITION

Why, how, with whom?

The case of Copenhagen CEO Bo Asmus Kjeldgaard, Greenovation





CEO Bo Asmus Kjeldgaard

+ 1. 11-100



BO ASMUS KJELDGAARD



CEO Greenovation Former mayor Copenhagen **Director Sustainable Platforms** Co-founder and -owner AquaGreen Board member Green Transition DK Associated professor and examiner Former chairman in several big environmental and energy companies Former secretary for minister Has worked intense for Copenhagen's climate plan, climate adaptation plan, 100.000 more trees, harbour bath and windmills Master in political science







COPENHAGEN AT THE TOP







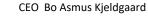


LIVEABILITY

SUSTAINABILITY + LIFE QUALITY CIRCULAR ECONOMY AND CLIMATE POLICY ARE INTEGRATED









DBU

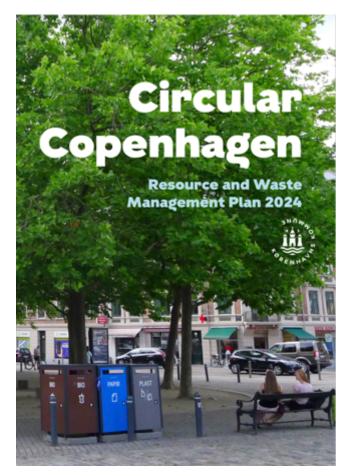




DBU







GOALS:

- 70% REUSE
- COPENHAGENERS MUST REUSE 3 TIMES AS MUCH AS TODAY
- CO₂-EMISSION MUST BE REDUCED BY 59.000 TON
- INNOVATION PLATFORMS



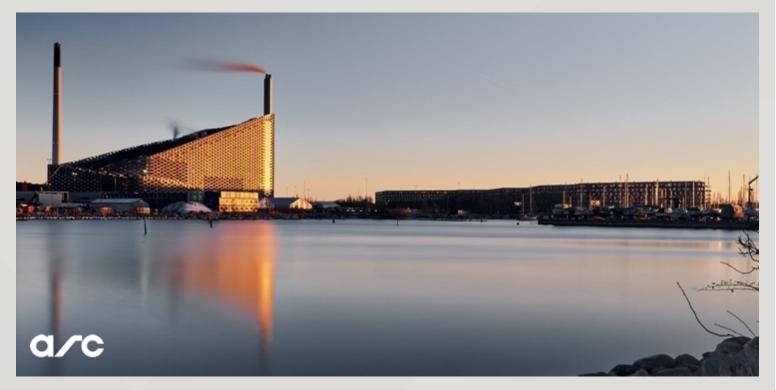






Amager Bakke / Copenhill

Probably the best waste incineration plant in the world



















WASTE AS A RESSOURCE - NEW BUSINESSES

Big businesses: biogas, fertilizer, construction materials, metal, chemical waste, glass, plastic.... Small businesses: repairing, products made of materials from recycle stations

Example: Sydhavns recycle station: contract covering all wood to small furniture producer









CONSTRUCTION WASTE HIGH RECYCLING RATE AND MINIMIZED TRANSPORT









CIRCULAR ECONOMY









CIRCULAR ECONOMY



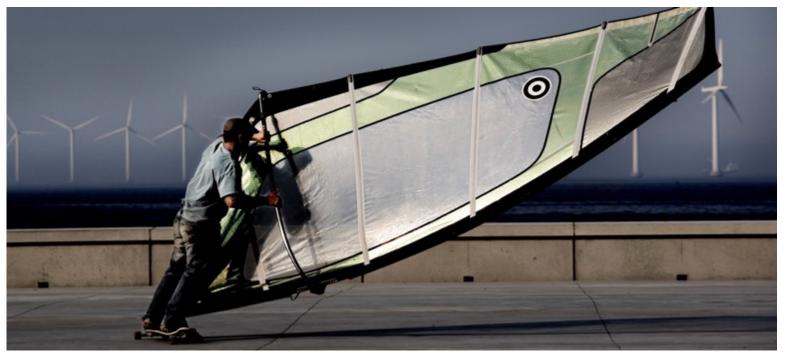






Climate and Green Growth – Putting Visions into Practice

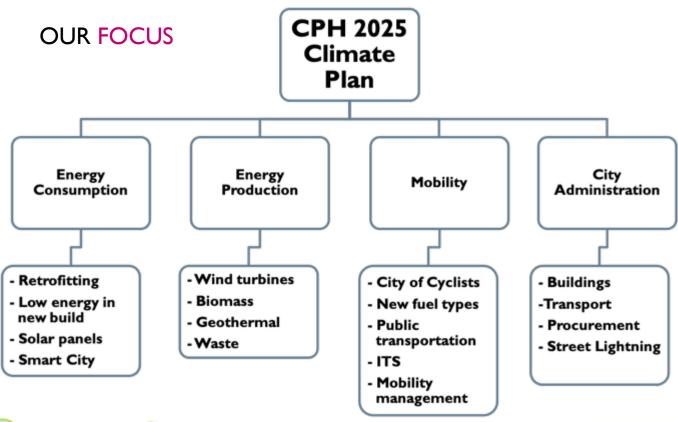
Copenhagen as driver for sustainable innovation

















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





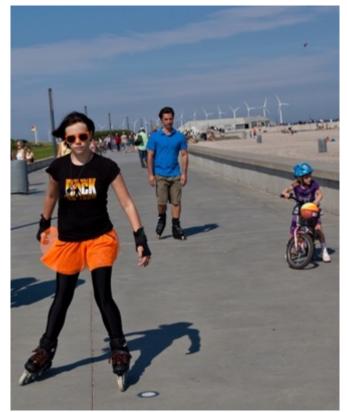




MOBILITY

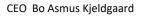
MAIN INITIATIVES

- 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







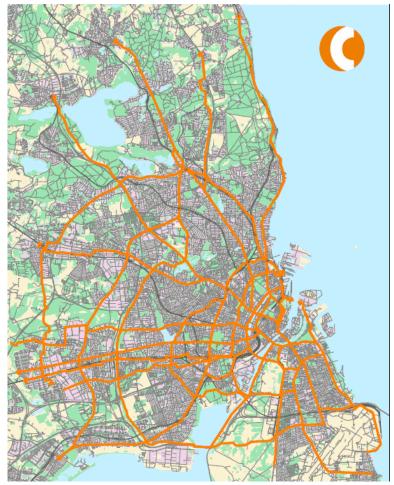


CYCLE SUPER HIGHWAYS

The first cycle super highway – the Albertslund route – opened April 14th 2012





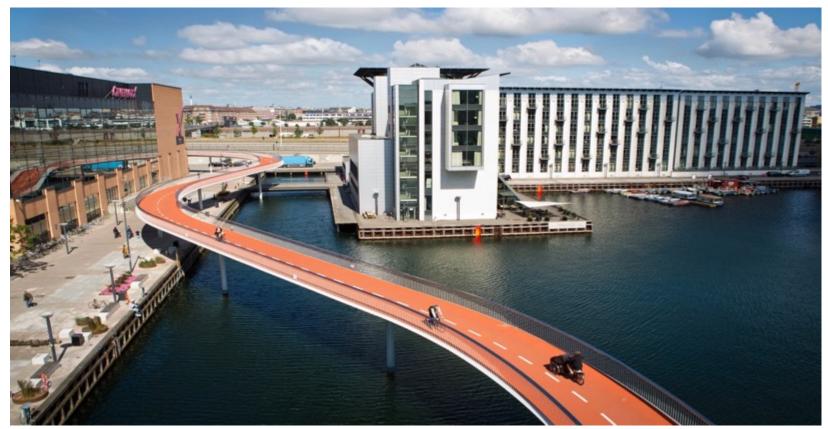








THE BIKE SNAKE



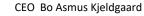












sustainable

circular

DBU

STATUS AND ADJUSTMENTS

1. period 2013-2016		2. period 2017-2020		3. period 2021-2025	
	KINA2025 Barmplanen Januar 181300	Midturesevaluoring An an An an An An an An an an An an An An an An an An an An an An an An	Roadmap 2021-2025	Evt. revurdering	



Vision 2050: "Copenhagen will be free of fossil fuels with clean air, no waste and no traffic noise"

2014







LEARNINGS FOR YOU

TO TAKE HOME





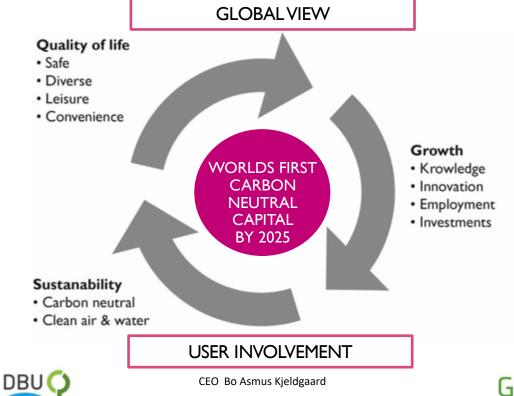




THE COPENHAGEN STORY

sustainable

circular





REASONS FOR SUCCESS?

THE ROAD TO COPENHAGEN 2025

COMMITMENT

- Strong political commitment
 in the City Council
- Financial support to new initiatives

COLLABORATION

- Broad stakeholder involvement
- New partnership models

COORDINATION

Common business plans

COMMUNICATION

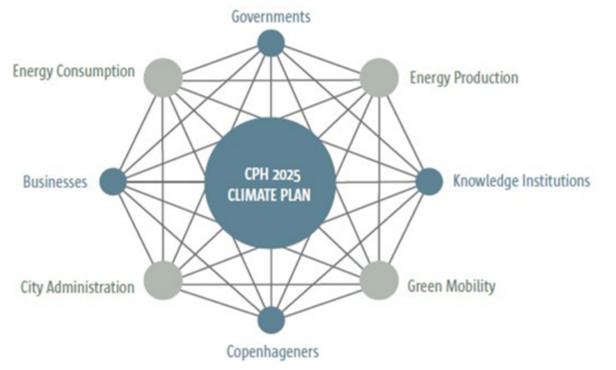








CO-CREATION – THE WAY TO SUCCESS



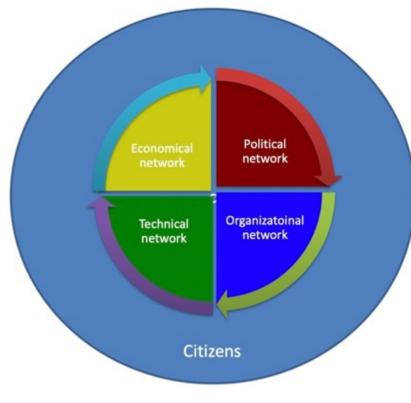
Focus areas and stakeholders contributing to the CPH 2025 Climate Plan.







GREENOVATIONS WORKING MODEL









FOCUS ON EXPERIMENTS

Examples:

- Further sorting and recycling of plastic and residual waste
- Local Smart Grids for electricity and heat production,
- storage and consumption
- Tests of low-temperature district heating
- Flexible energy consumption in buildings
- Optimisation of goods delivery in the Inner City
- Mobility as a Service (MaaS), if the initial analyses reveal a satisfactory outlook

Experiments in Nordhavn









PROGRAMME FOR CHILDREN AND SCHOOLS

- Special climate schools and nature centres for kindergardens and school classes
- Educational centres for children on all big environmental companies
- Climate education of teachers
- Campaigns in schools for good climate habits



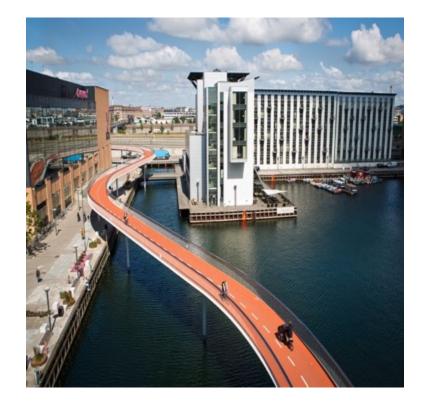






ENERGY TRANSITION AMONG COPENHAGENERS

- Dialogue with Copenhageners to motivate them to optimize for green solutions
- Climate consultancy to citizens
- Energy retrofitting
- Installation of solar panels on buildings
- New means of transport
- Ownership by purchasing wind
- Better waste management
- Urban renewal
- Special program for children and schools









WHAT REALLY MOVES COPENHAGENERS

The changing weather moves people

- Big floodings
- Storms
- Hot summer 2018 3,5 months without rain

New movement especially among young people

- Crave political action
- One days school strike every month
- Demonstrate sustainable living:
 - No flights
 - No meat
 - Only second hands clothes
 - Etc









TOP DOWN AND BOTTOM UP

TOP DOWN

- Central Climate Plan
- Circular Copenhagen Plan

BOTTOM UP

 Dialog, campaigns, programmes and focus on young people

USE THE NEW "MOVEMENT"

- GIVE PEOPLE POSSIBILITIES TO ACT:
- Support/funds for local initiatives and experiments
- Intelligent integration of local activities and central plans









STATUS AND ADJUSTMENTS

1. period 2013-2016		2. period 2017-2020		3. period 2021-2025	
	KINA2025 Barmplanen Januar 181300	Midturesevaluoring An an An an An An an An an an An an An An an An an An an An an An an An	Roadmap 2021-2025	Evt. revurdering	



Vision 2050: "Copenhagen will be free of fossil fuels with clean air, no waste and no traffic noise"

2014







LEARNINGS TO TAKE HOME

- THE OSNABRÜCK STORY MAKE A GOOD NARRATIVE
- POLITICAL COMMITMENT AND FINANCIAL SUPPORT
- MAKE VERY CONCRETE PLANS WITH SUCCESSCRITERIAS
- CO-CREATION BETWEEN ALL RELEVANT STAKEHOLDERS
- FOCUS ON EXPERIMENTS
- DIALOG AND CO-CREATION WITH CITIZENS
- INTEGRATE CENTRAL PLANS AND ACITIVITIES FOR CITIZENS
- PROGRAMS FOR CHILDREN AND SCHOOLS
- EVALUATION, EVALUATION ... AND ADJUSTMENTS, ADJUSTMENTS.....







THANK YOU!

JOIN A STUDY TOUR IN COPENHAGEN AND LEARN MORE ABOUT SUSTAINABLE SOLUTIONS

WWW.GREENOVATION.DK







