



DANISH CLEANTECH – International outreach

DISPOSITION

- Introduction to CopCap
 - Who, what, where..
 - Our role in CCC
- Introduction to Copenhagen Cleantech Cluster
- Cleantech in Denmark

BE PART OF  COPENHAGEN
CLEANTECH CLUSTER



ABOUT COPENHAGEN CAPACITY

COPENHAGEN CAPACITY

- The official inward investment agency of Greater Copenhagen
- Ranked #1 regional IPA in the world by the World Bank 2009
- One of the founding partners in Copenhagen Cleantech Cluster



COPENHAGEN CAPACITY – OUR SERVICES

- **Establish:** Guiding your company through the process of establishing in Copenhagen – all free of charge
- **One-stop:** We assist you from the initial screening to the assessment period through to the decision period and setting up in the region
- **Benchmark:** We assist you in comparing different locations around the world on a cost basis as well as a number of qualitative parameters
- **Visiting programmes:** We organize tailor-made visit programmes for your company, in which you get the chance to meet various service providers who can assist you in establishing your business
- **Location services:** Through our network of lawyers, accountants, HR-agents, real estate agencies, relocation companies, and public authorities) you are put in contact with potential business partners, science parks, research centres and educational institutions

COPENHAGEN CAPACITY – OUR ROLE IN CCC

- Copenhagen Capacity is a partner in CCC
- Copenhagen Capacity is responsible for the overall coordination and facilitation of the Copenhagen Cleantech Cluster project and will in this context host the secretariat
- Copenhagen Capacity is responsible for two main focus areas:
 - International Cleantech Outreach (the build-up of relations to other international cleantech markets and players)
 - Facilitation of networking within the cleantech sector's different business segments



INTRODUCTION TO COPENHAGEN CLEANTECH CLUSTER

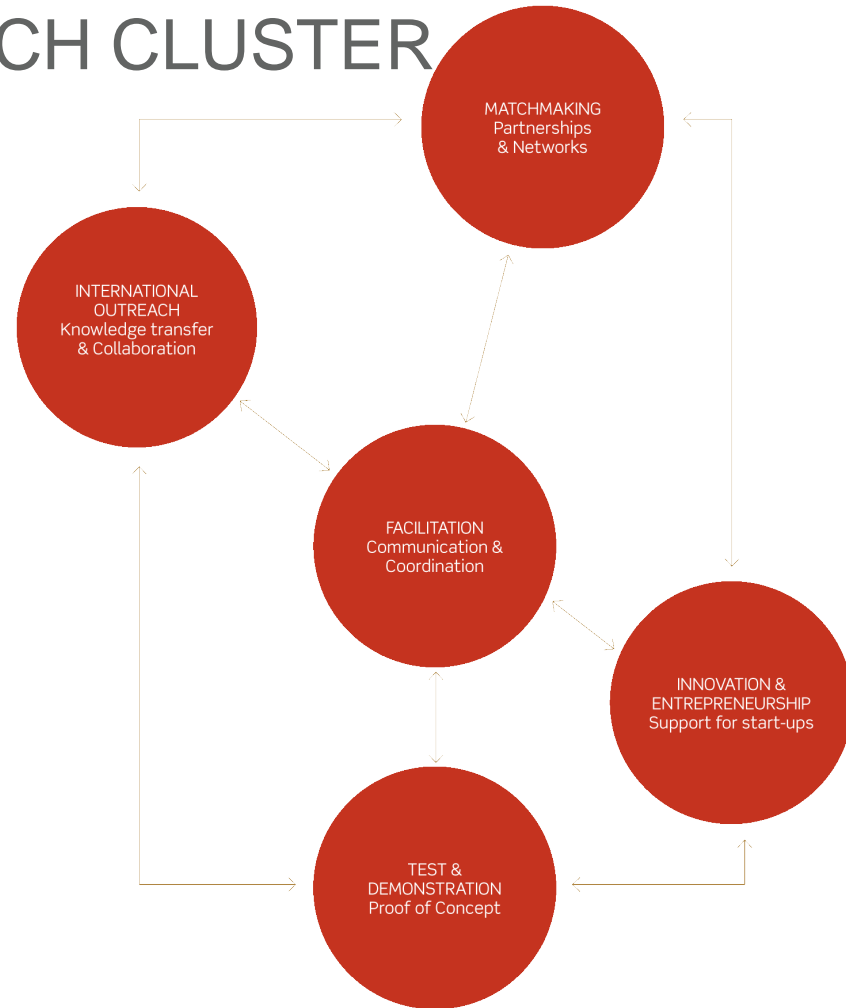
COPENHAGEN CLEANTECH CLUSTER

- Copenhagen Cleantech Cluster is an initiative launched by Danish cleantech companies, research institutions and public organisations to sustain and develop world-class cleantech competencies.
- Copenhagen Cleantech Cluster's vision is to develop one of the world's leading and most renowned cleantech clusters, creating superior value for the cluster companies and research environments and to differentiate itself by tying cleantech technologies and communities together across sectors and value chains.
- Copenhagen Cleantech Cluster's mission is:
 - To create continuous growth for existing cleantech companies
 - To support and assist new cleantech companies
 - To attract more foreign cleantech companies to the cluster

BE PART OF  COPENHAGEN
CLEANTECH CLUSTER

COPENHAGEN CLEANTECH CLUSTER

Specific activities
– a five pillar approach



COPENHAGEN CLEANTECH CLUSTER – ACTIVITIES

Test & Demonstration

- The main objective is to create a framework for testing and demonstration that is attractive to both foreign and national cleantech companies
- There are two main projects within test and demonstration:
 - Copenhagen Cleantech Park
 - Demonstratorium

COPENHAGEN CLEANTECH CLUSTER – ACTIVITIES

Innovation & Entrepreneurship

- A key part of CCC's objectives is to create the best conditions for fostering new business ventures by supporting new ideas within existing companies as well as start-ups. To facilitate this process, four projects are currently underway:
 - Cleantech Accelerator
 - Facilities
 - Tech Trans
 - Spin-Offs

COPENHAGEN CLEANTECH CLUSTER – ACTIVITIES

Matchmaking

- This area consists of two programmes:
 - A business network that aims to introduce businesses that work in the same fields as each other and to provide them with the benefits of being part of a cluster including access to a pool of tacit knowledge
 - A research-to-business program that aims to bridge the gap between research institute and companies as this can increase the proportion of research developed into actual products

COPENHAGEN CLEANTECH CLUSTER – ACTIVITIES

International Outreach

- Copenhagen Cleantech Cluster's vision is to be a highly connected international cluster. CCC will achieve this by establishing real working relationships with leading clusters/organisations around the world
- In order to achieve international success, to establish partnerships from abroad who can create value to the supply chain.
- The International Cleantech Network is focused on:
 - Visualising business opportunities across stakeholders from the different markets
 - Giving and sharing knowledge, competencies, and best practice guidelines between the Danish and foreign companies
 - Creating visits and matchmaking for key stakeholders, joint conferences, and access to demonstration facilities

COPENHAGEN CLEANTECH CLUSTER – ACTIVITIES

Facilitation

- Copenhagen Cleantech Cluster operates a “One Stop Shop” to give an overview and access to the cleantech cluster
- The One Stop Shop
 - ensures that the cluster’s stakeholders have access to relevant information, advice, materials, and activities
 - provides an overview of players and initiatives and generate analyses that identify new opportunities, challenges, and needs within the cleantech sector
 - It for example offers analyses of barriers, surveillance of framework conditions, establishment of partnerships, R&D projects, identification and start-up of new partnerships
- To ensure that the distance between the public and private organisations is never too far, CCC assists the dialogue between the public and private sectors
- EnergyMap offers an overview of the cluster with regards to companies, research institutions, public stakeholders, initiatives, and events within the cleantech sector

COPENHAGEN CLEANTECH CLUSTER – ORGANISATION

- Copenhagen Cleantech Cluster is based on a triple helix model. This model focuses on university-industry-government interactions and it has been recognised as a key to innovation in knowledge-based societies
- The broad foundation of partners will ensure that the initiative embraces the entire value chain to benefit cleantech companies, researchers and entrepreneurs in Denmark



COPENHAGEN CLEANTECH CLUSTER – ORGANISATION

Executive partners: Copenhagen Capacity, Confederation of Danish Industry, Scion DTU, Risø DTU, Copenhagen University, Business Frederikssund, Symbion Science Park, DHI, EnergyMap.dk

Contributing partners: Dong Energy A/S, Siemens Danmark A/S, Novozymes A/S, Haldor Topsøe A/S, Better Place, Vestas, Øland A/S, Seas-NVE, Deloitte, Copenhagen Resource Institute, Roskilde Municipality, Kalundborg Municipality, Ernst & Young, Business Link Greater Copenhagen, Business Link Zealand, Region of Copenhagen, Region of Zealand

Network partners and stakeholders: Lolland Municipality, Albertslund Municipality, Invest in Skåne, Cluster Biofuel Denmark, Copenhagen Business School, Seed Capital, Wonderful Copenhagen, Copenhagen Goodwill Ambassador Corps, Connect Denmark, Cleanfield ApS, The Growth Fund etc.

COPENHAGEN 2025 – THE WORLD'S FIRST CO2 NEUTRAL CAPITAL

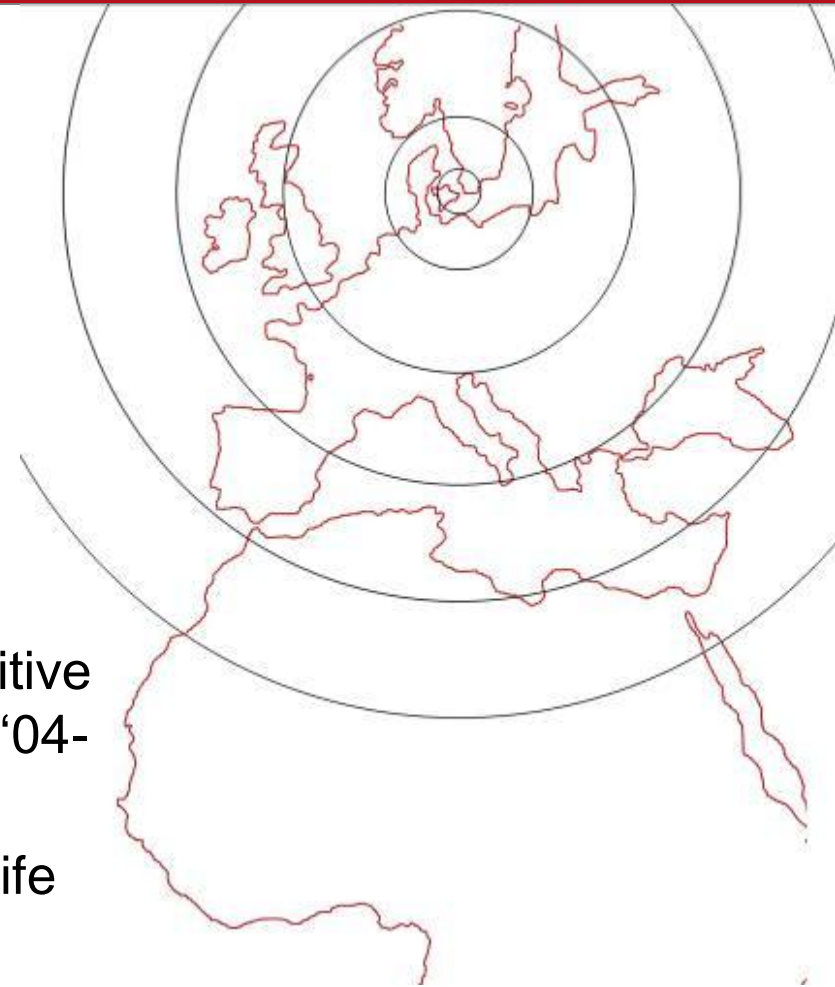
- Milestone 2015
 - Reduction of CO2 emissions by 20% (500,000 tons)
 - 50 concrete initiatives targeting e.g. energy efficiency, transportation, renovation to building codes, waste handling and renewable energy generation, public education on use of energy
- 2025
 - Copenhagen net CO2 emissions = zero



CLEANTECH IN DENMARK

DENMARK – THE GATEWAY TO SCANDINAVIA

- Copenhagen - the capital of Denmark
- Scandinavia: 25 million people
- Baltic Sea Region: 70 million people
- Denmark ranked as the world's most competitive country by Economist Intelligence Unit (EIU) '04-'08
- Main strongholds: Cleantech, Renewables, Life Science, ICT, Design



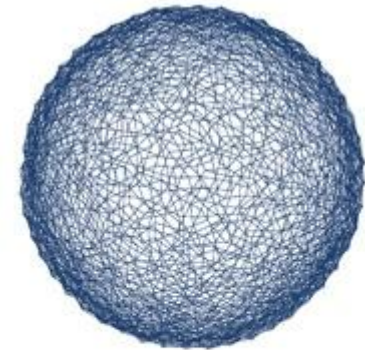
CLEANTECH – A DANISH TRADITION

**From the world's first environmental law
in 1973 to a strong focusing on cleantech...**

...the right green choice.

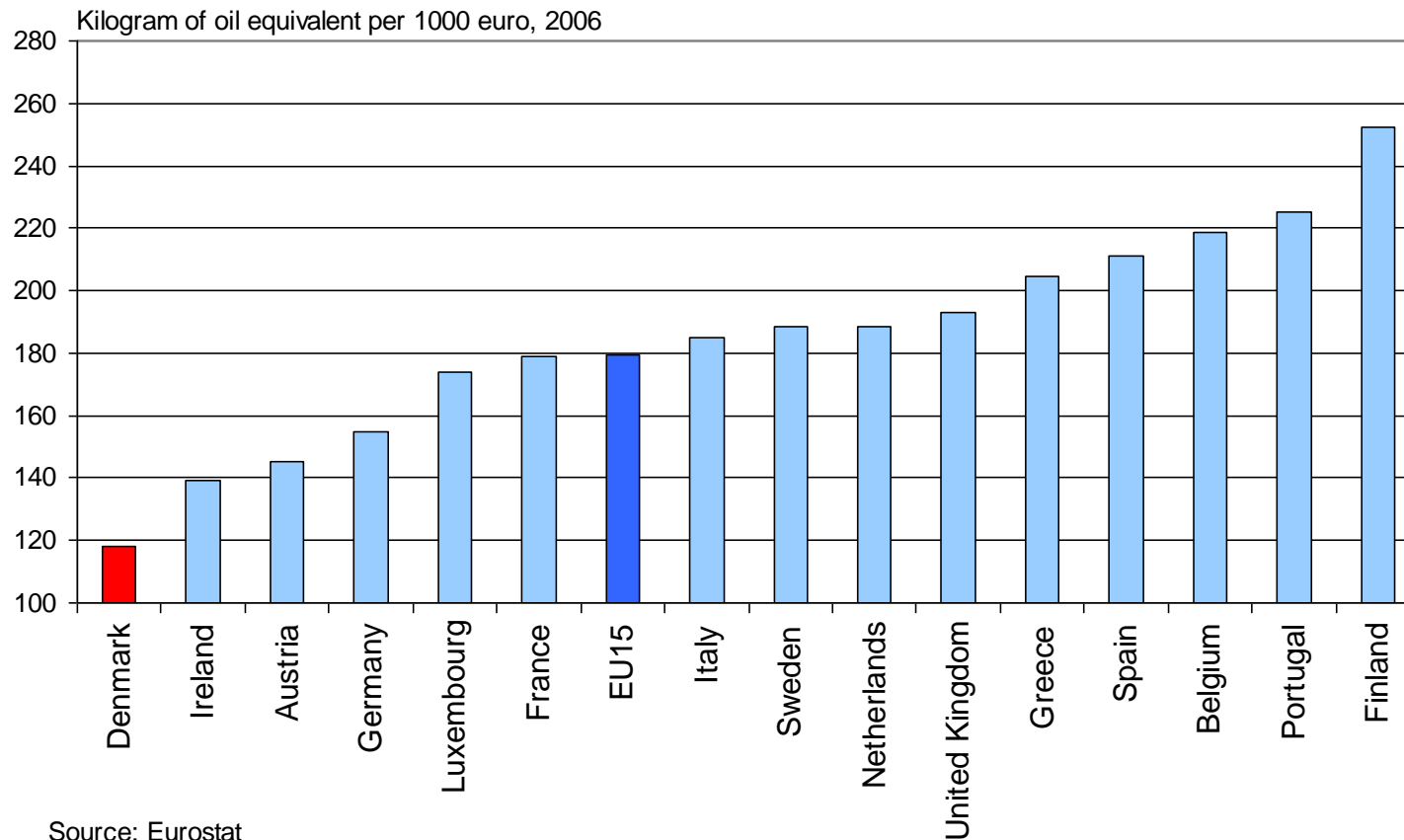
...the right political choice.

...the right economic choice.



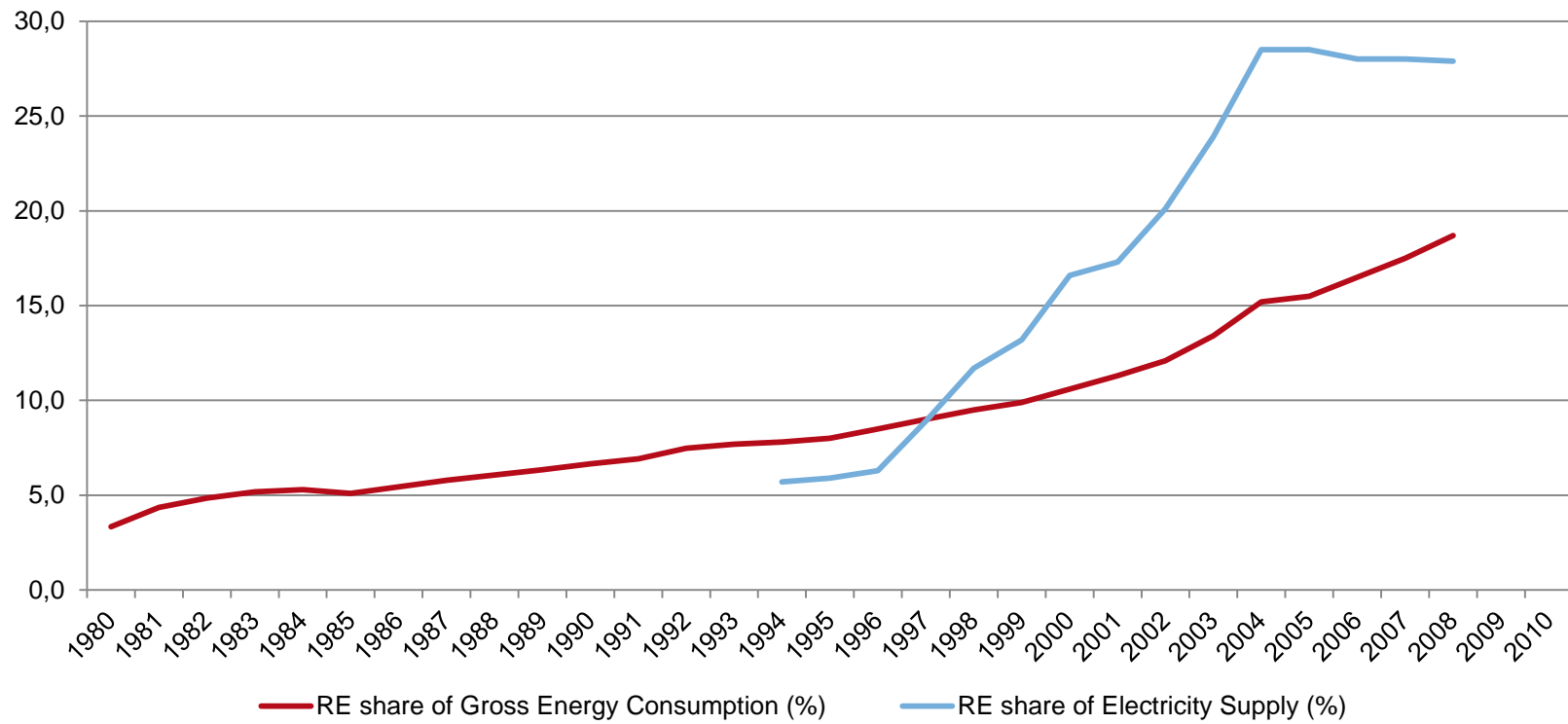
COP15
COPENHAGEN
UNITED NATIONS CLIMATE CHANGE CONFERENCE 2009

DENMARK, THE MOST ENERGY EFFICIENT COUNTRY IN THE EU – hosts the world's most energy efficient power plants (96% efficiency)

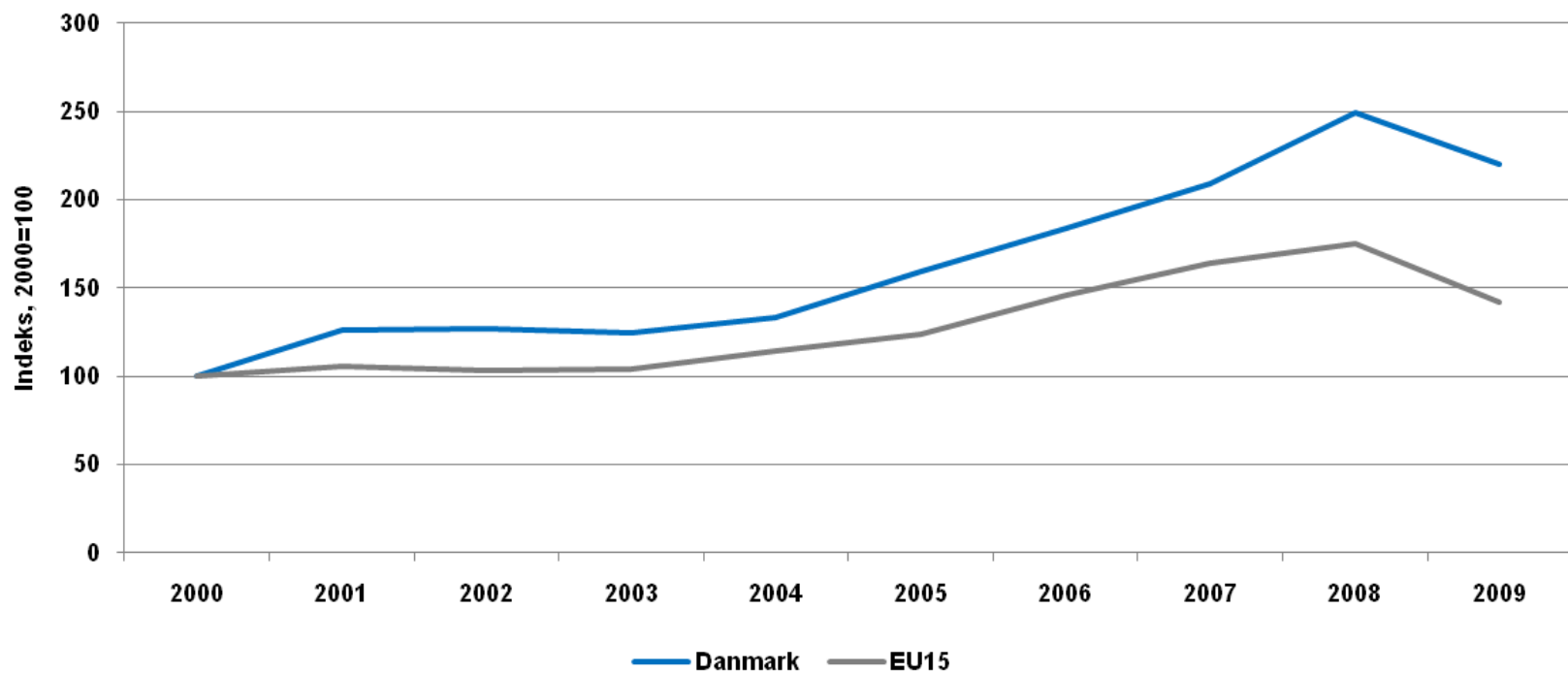


RENEWABLE ENERGY IN DENMARK

Highest contribution to electricity from new renewables in EU



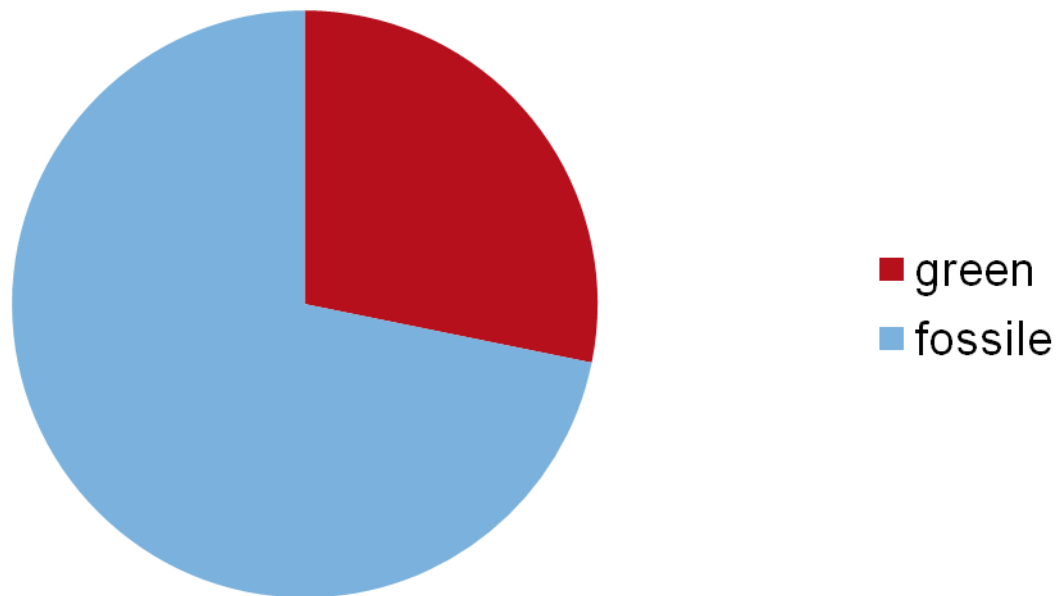
CLEANTECH EXPORT



Source: Danish Energy Agency

ELECTRICITY PRODUCTION IN DENMARK 2009

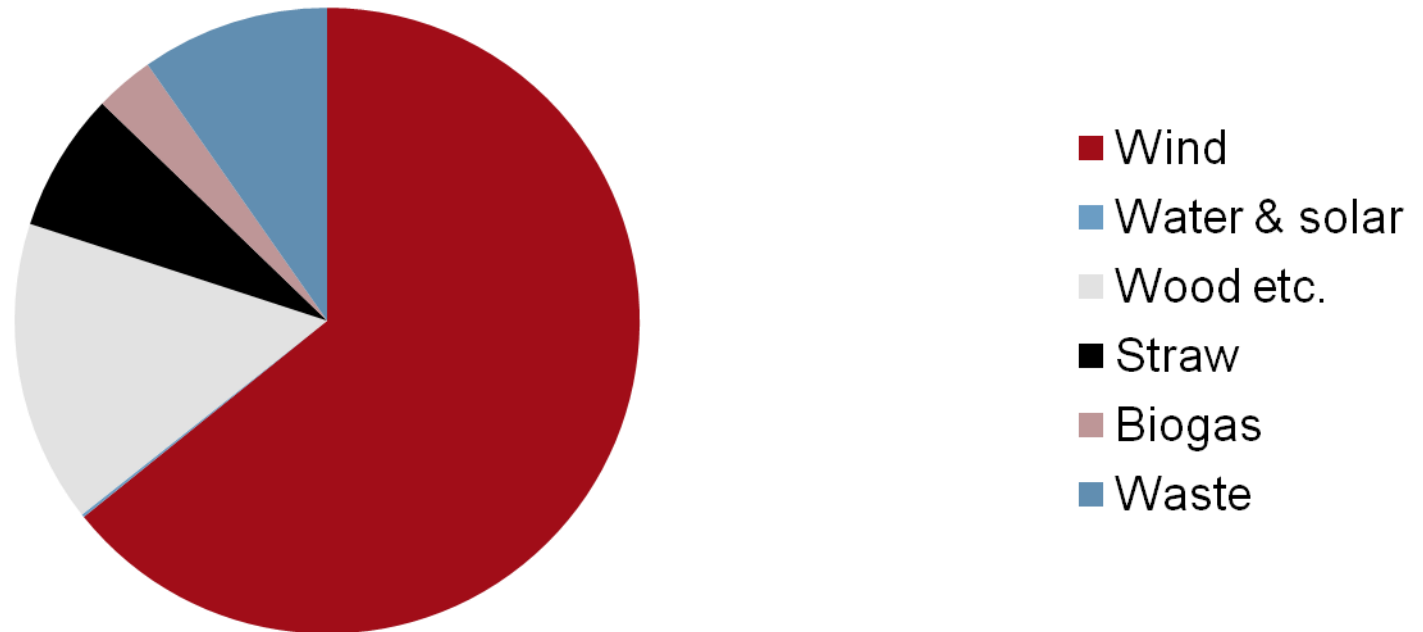
Share of Green Energy



Source: Energinet.dk 2009

RENEWABLE ENERGY PRODUCTION IN DENMARK 2009

Renewables

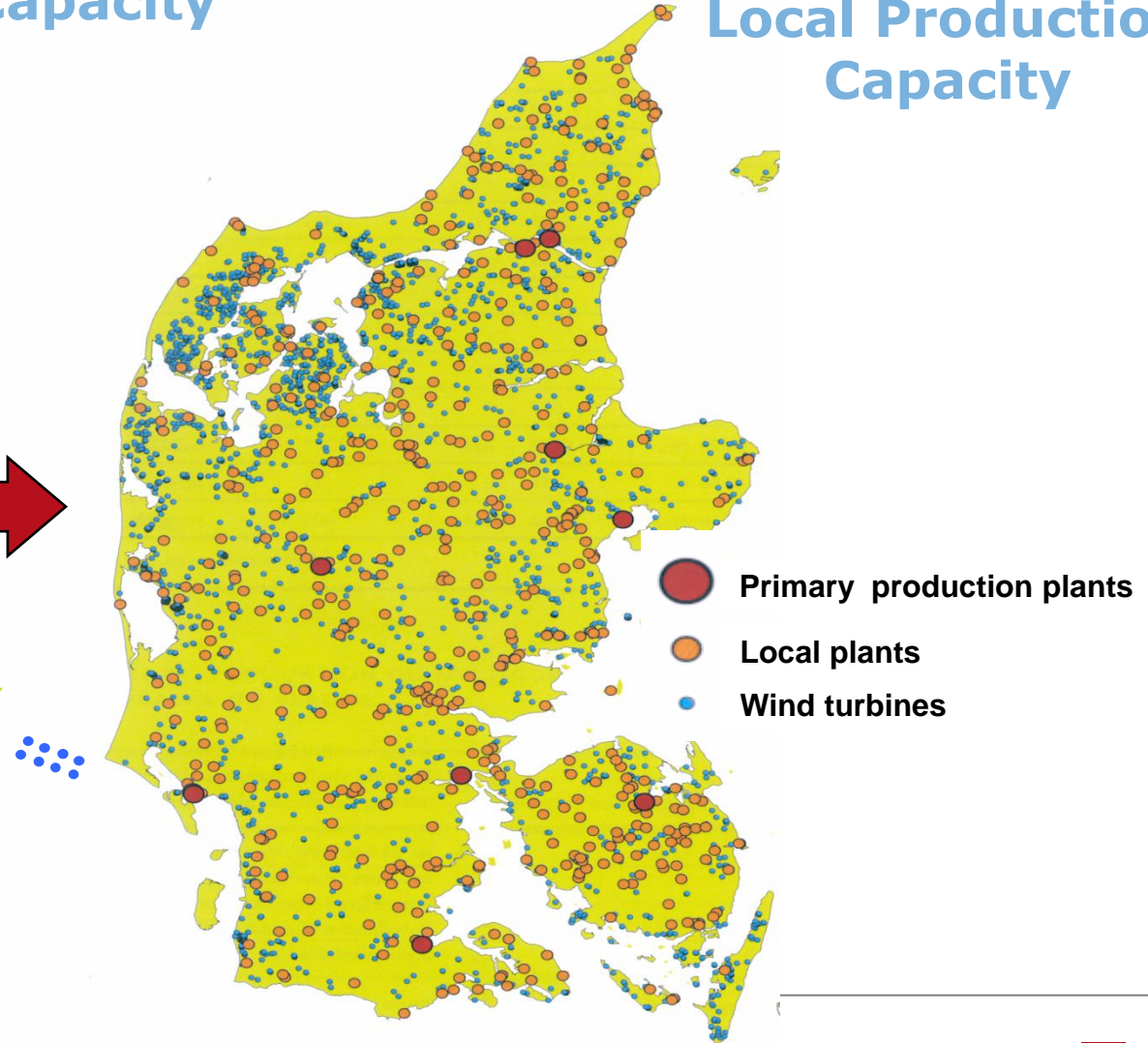
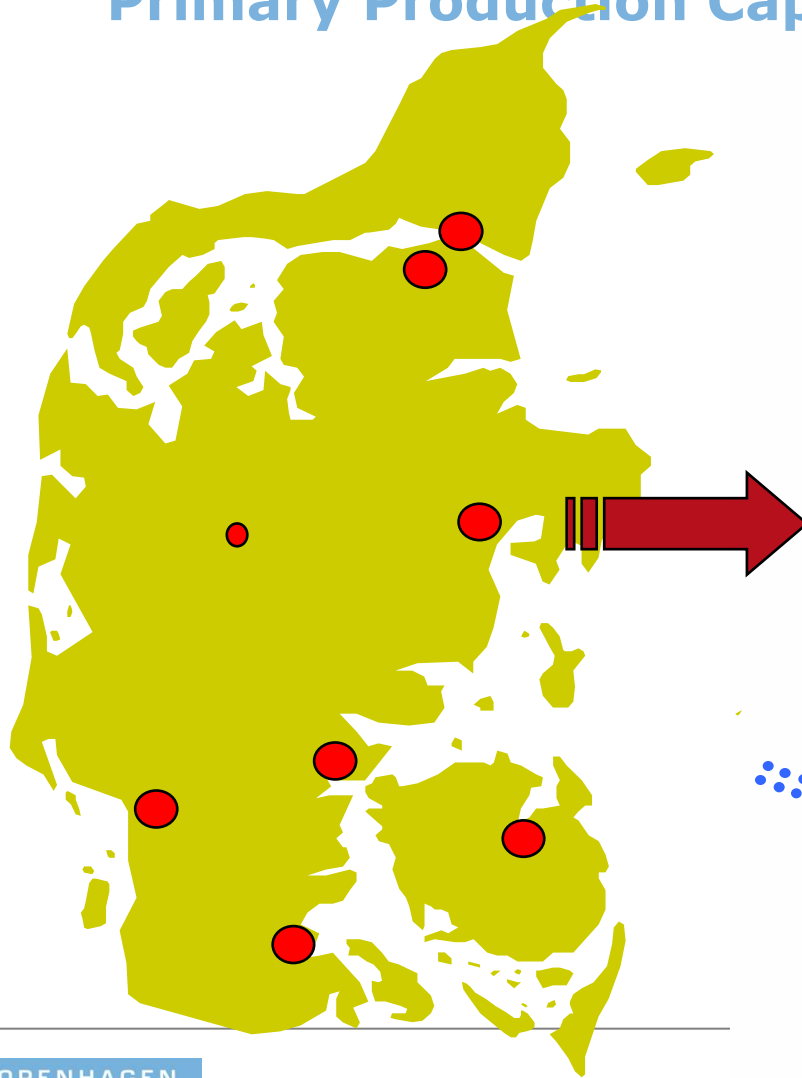


Source: Energinet.dk 2009

Development from the 1980s

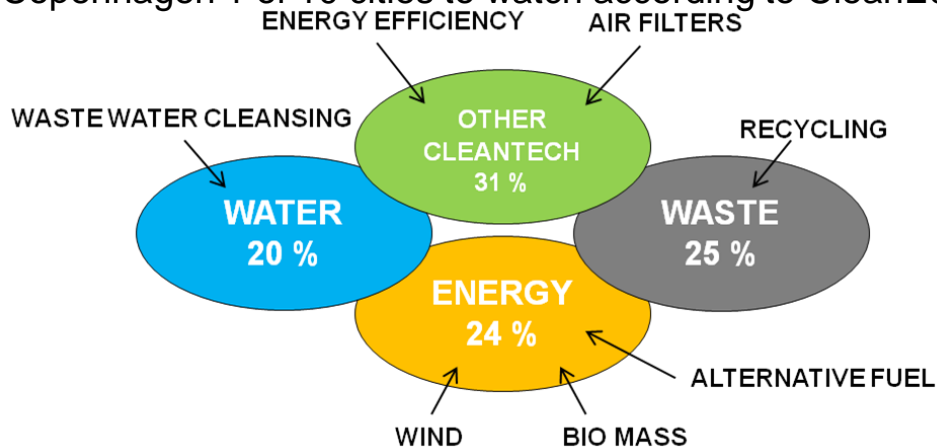
Primary Production Capacity

Local Production Capacity



THE DANISH CLEANTECH CLUSTER

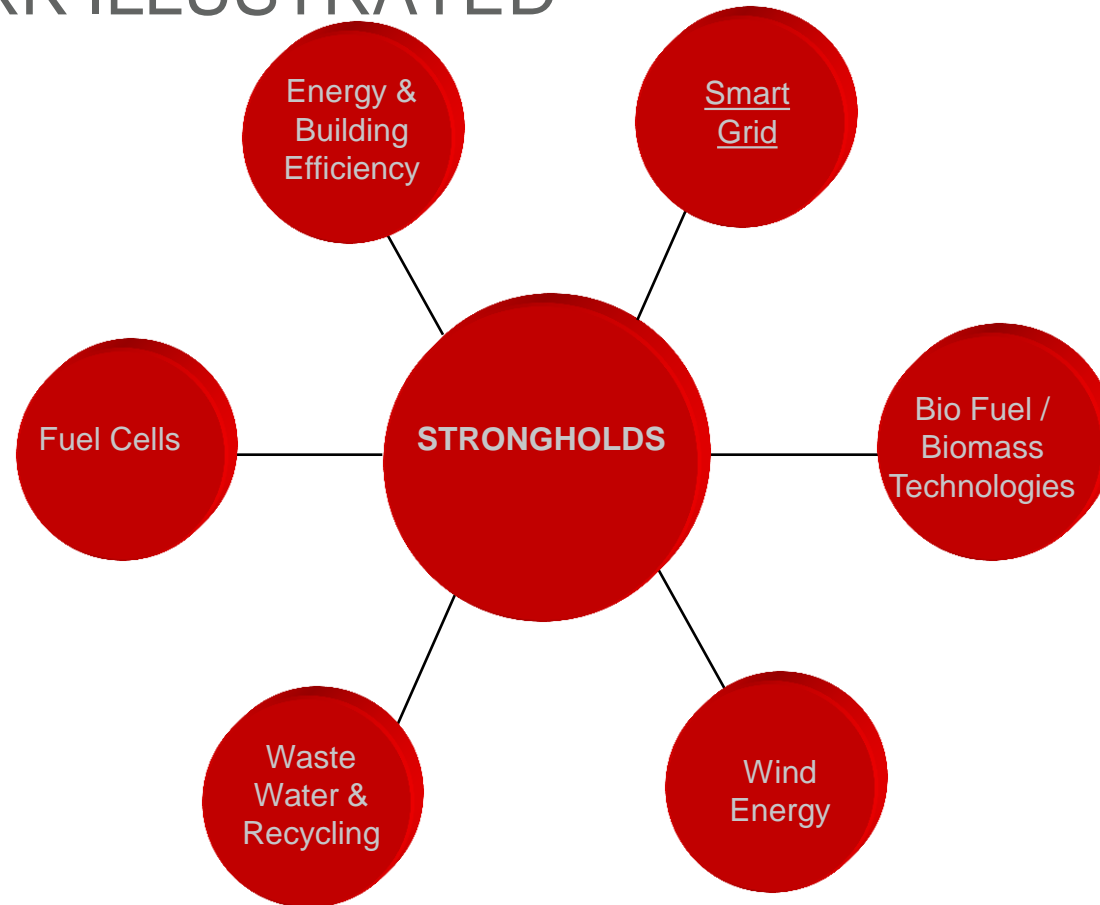
- Long commercial tradition and understanding of cleantech
- 720 Danish cleantech companies (app. 50% in the capital region)
- 120.000 employees in the Danish cleantech sector
- Revenues of Euro 44 bill. (Exports accounts for 40%)
- 46 knowledge institutions focusing on R&D within cleantech
- Hosts of the COP15 climate summit in 2009
- Copenhagen 1 of 10 cities to watch according to CleanEdge (USA)



TECHNOLOGICAL CLEANTECH COMPETENCES IN DENMARK

- Wind power
- Biomaterials
- Solar energy
- Energy Storage (large and small scale)
- Grid management
- Energy efficiency/Green buildings
- Transport (Better Place Denmark, EDISON)
- Recycling, Waste management
- Biofuels
- Fuel cells
- District heating/cooling

TECHNOLOGICAL CLEANTECH COMPETENCES IN DENMARK ILLUSTRATED



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