



DANISH MINISTRY OF
CLIMATE, ENERGY AND BUILDING

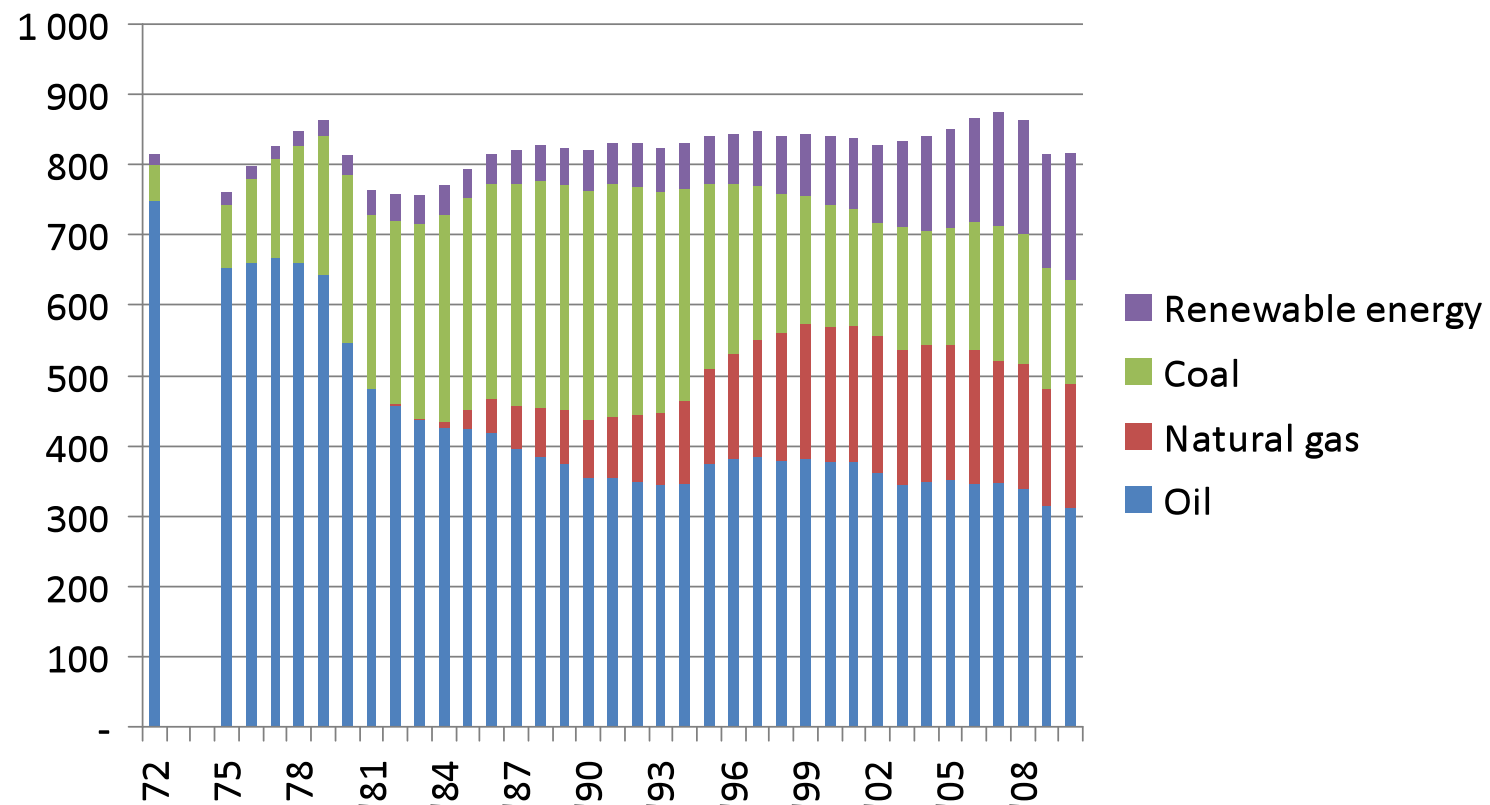
Denmark's experience in optimising climate policy

CECILIA2050/Industrial Innovation Warsaw Side Event
Monday 18 November 2013



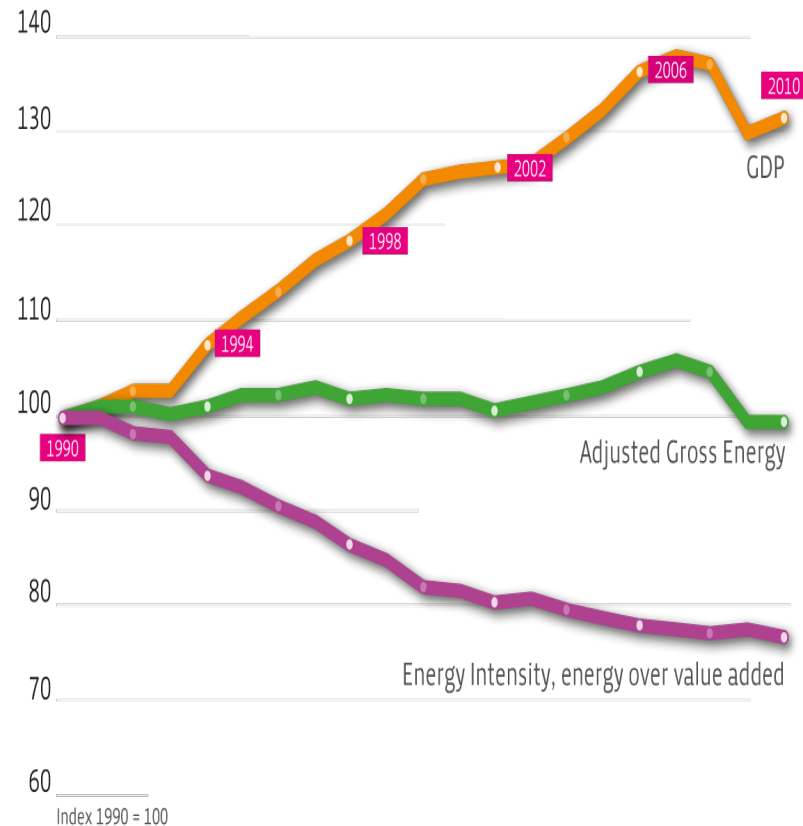
Anne Højer Simonsen, Deputy Permanent Secretary

Gross Energy Consumption 1972-2010



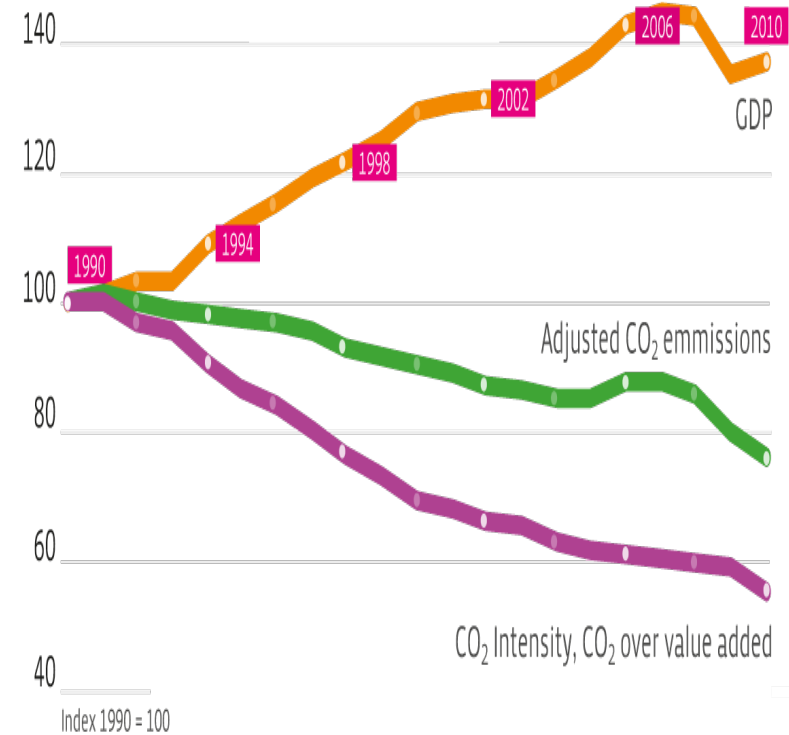
Source: Energy Statistics 2011

Energy Consumption relative to GDP



Source: Statistics Denmark, National Accounts, May 2012. Danish Energy Agency, Annual Energy Statistics 2011.

Green House Gas Emissions relative to GDP



Source: Statistics Denmark, National Accounts, May 2012. Danish Energy Agency, Annual Energy Statistics 2011.

Danish Energy Agreement 2012-2020

These are the headline results for 2020:

2020

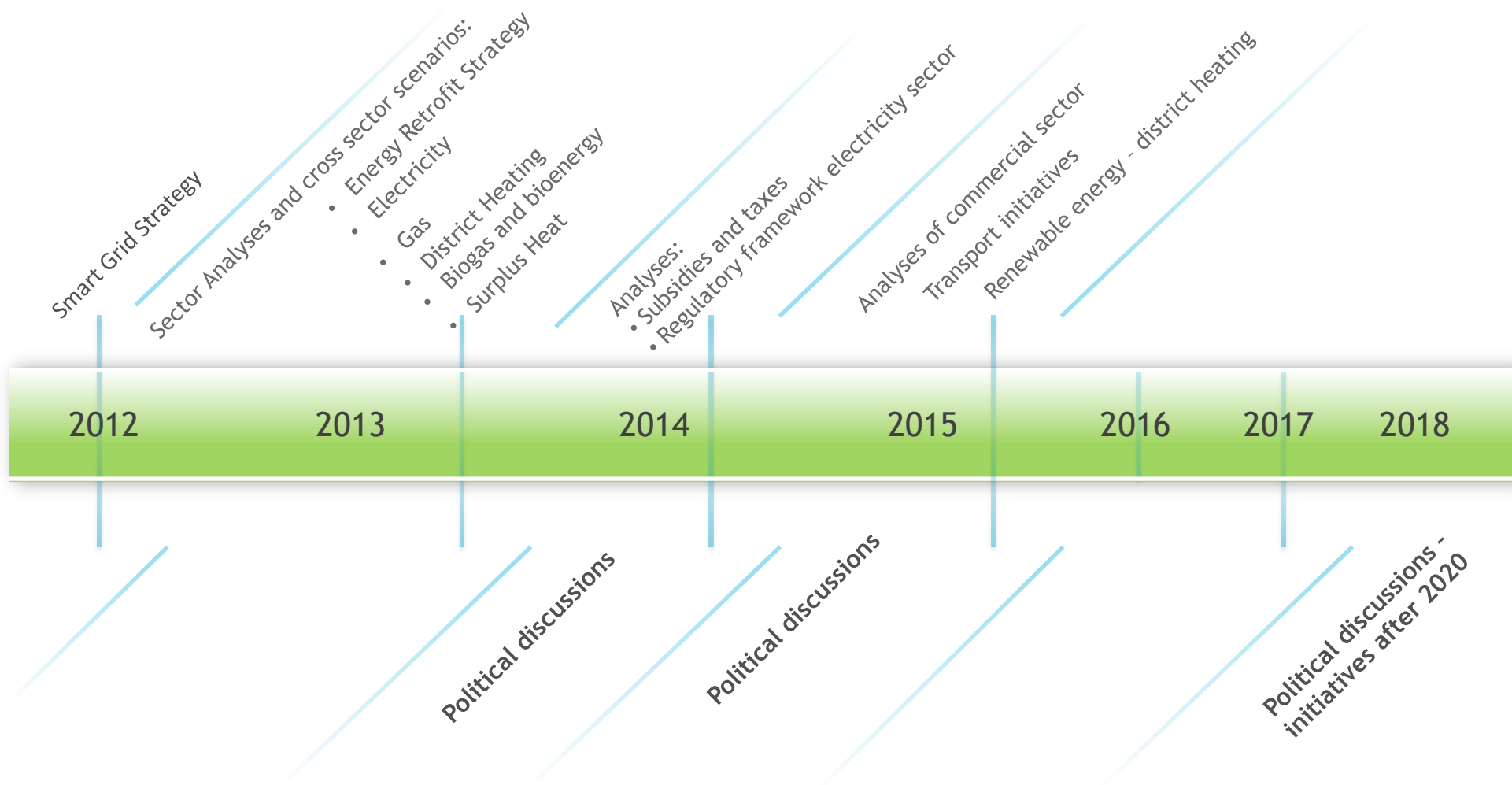
More than 35% renewable energy
in final energy consumption

Approximately 50% of electricity
consumption to be supplied by wind power

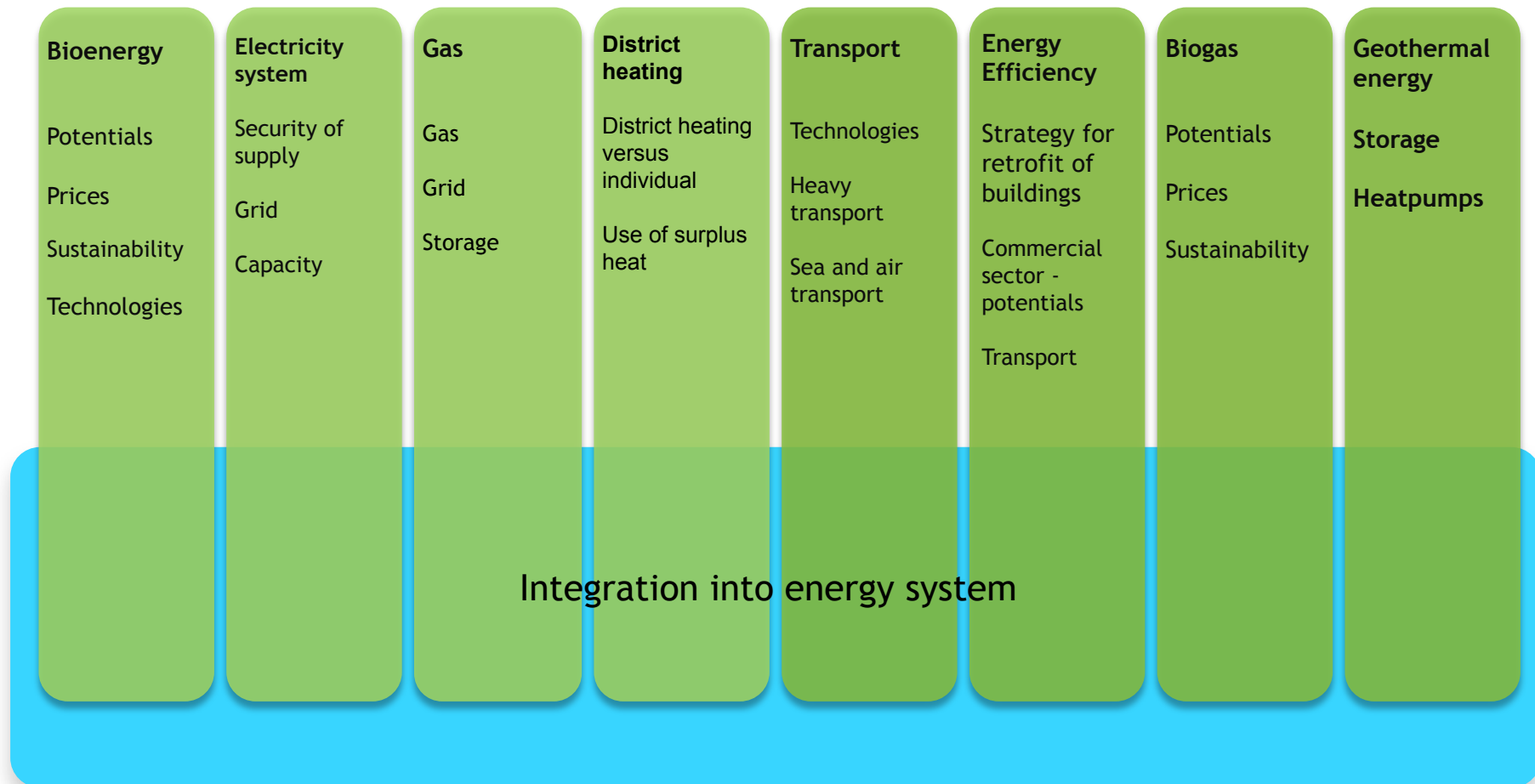
7.6% reduction in gross energy
consumption in relation to 2010

34% reduction in greenhouse
gas emissions in relation to 1990





Analyses and scenarios – Energy system



→ Energy System Scenarios across all analyses

The Danish Climate Policy Plan

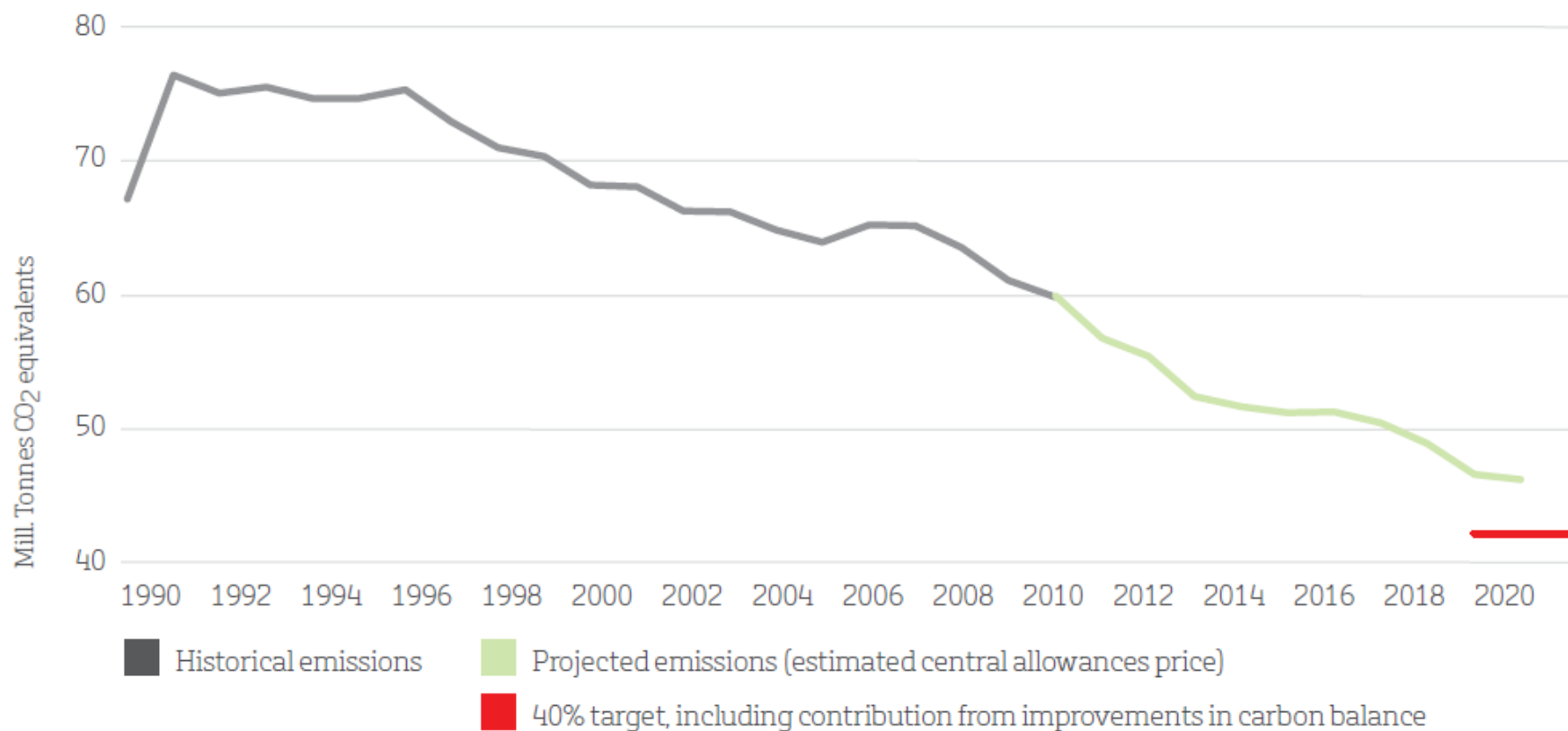


Figure: Changes in emissions, 1990-2020 in relation to the 40% reduction target

Source: Danish government Climate Policy Plan

The Main Greenhouse Gas Emitting Sectors in Denmark

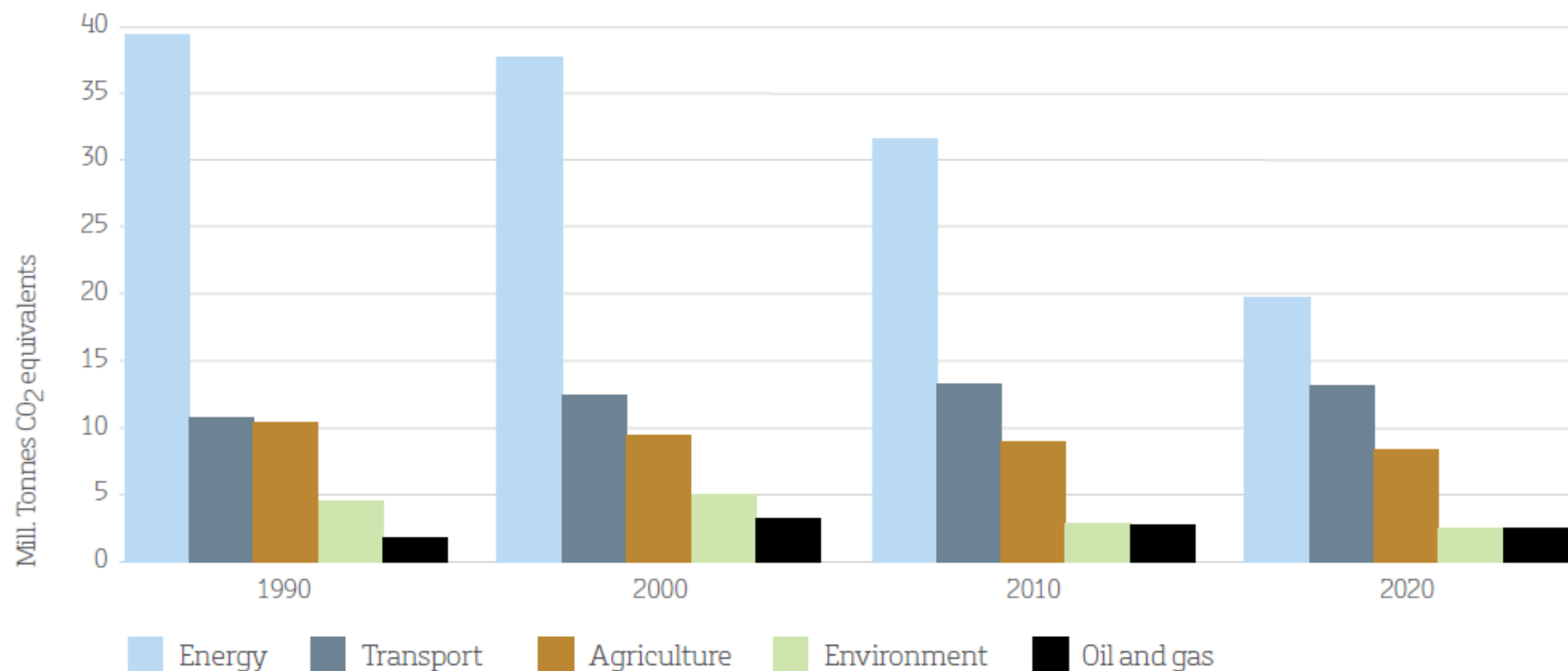
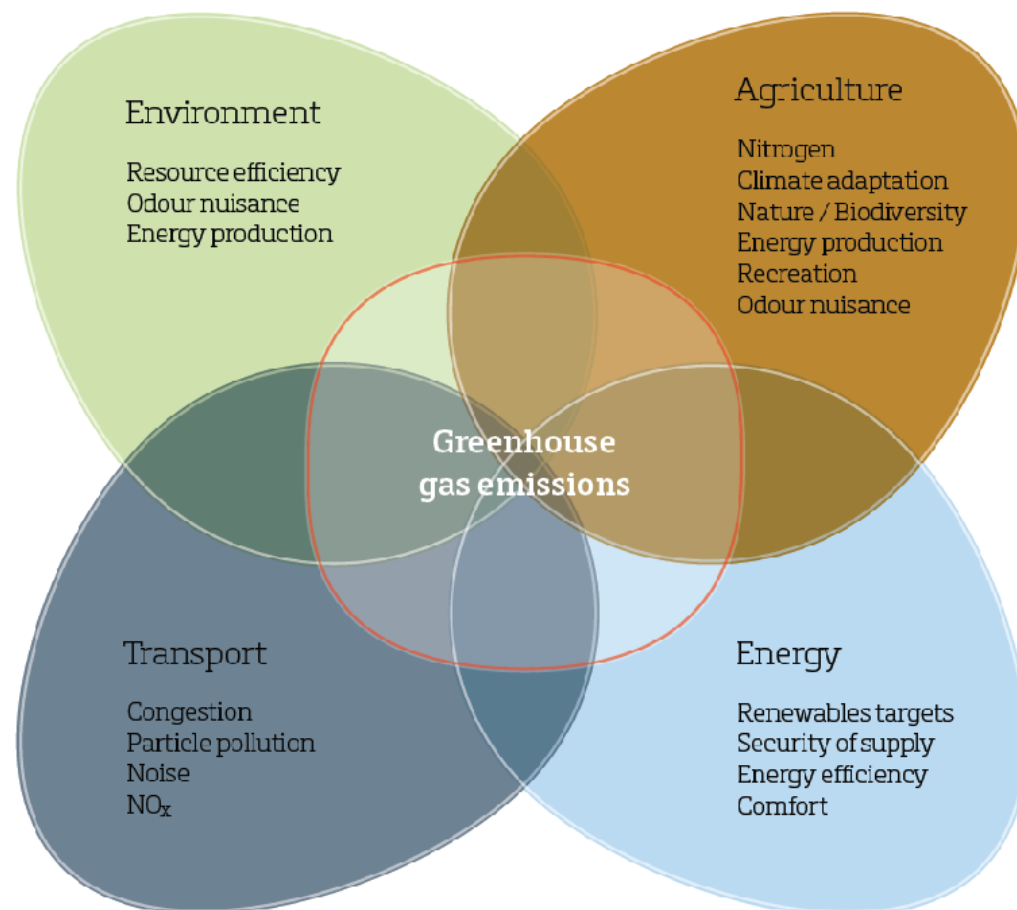


Figure. Historical and projected Danish greenhouse gas emissions for 1990 to 2020

Source: Danish Centre for Environment and Energy and the Danish Energy Agency

Climate Policy Synergy



Source: Danish government Climate Policy Plan

EUDP - Energy Technology Development and Demonstration Program

Purpose

❑ Support energy policy objectives

- Security of supply
- Combating climate change
- Economic growth

❑ Further develop existing strong industrial positions within energy technology and realise the potential to increase exports of energy technology and know how

❑ Establish a competitive

Activities

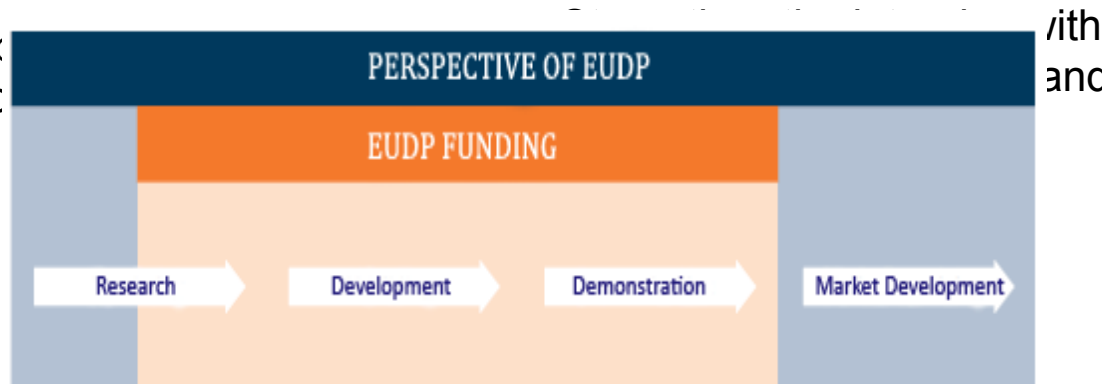
❑ Subsidies for

- Development and demonstration
- Research supporting development and demonstration
- Technology development in Denmark

❑ Encourage public private partnerships / cooperation

Fast Facts

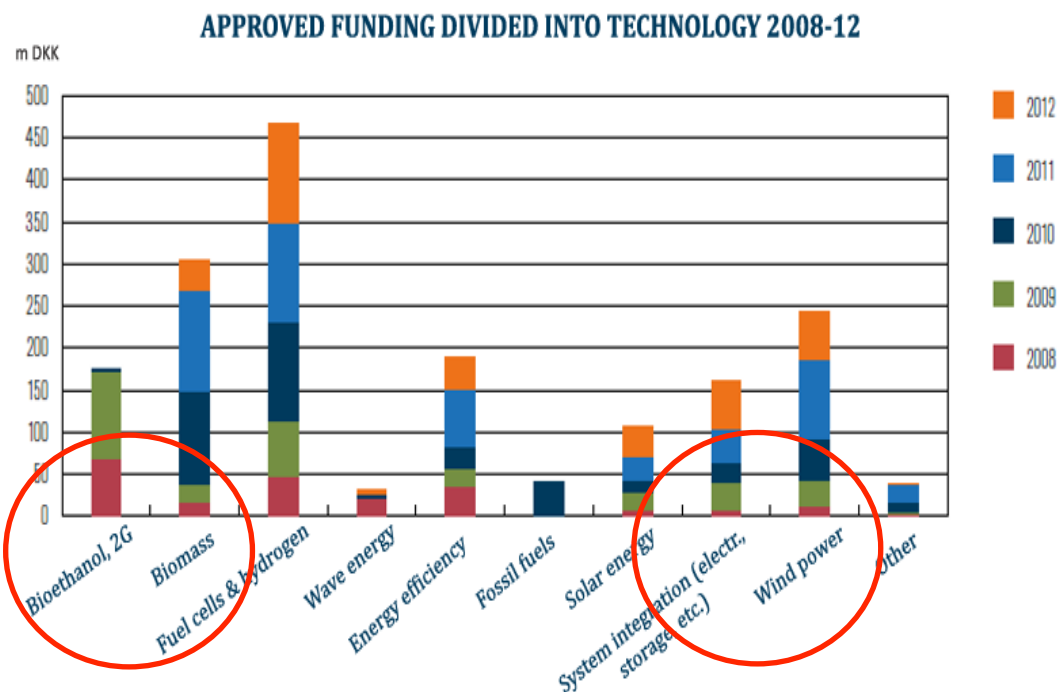
- ❑ Established 2007
- ❑ Independent board
- ❑ 371 projects in 2008-12
- ❑ 400 m DKK in 2013



EUDP - Energy Technology Development and Demonstration Program

Selection Criteria

- 1) Energy & technological
- 2) Commercial
- 3) Organisation, cooperation & knowledge sharing
- 4) Incentive effect





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DK Energy Agreement, March 22 2012

<http://www.kebmin.dk/sites/kebmin.dk/files/climate-energy-and-building-policy/denmark/energy-agreements/FAKTA%20UK%201.pdf>

Accelerating Green Energy Towards 2020

http://www.ens.dk/sites/ens.dk/files/dokumenter/publikationer/downloads/accelerating_green_energy_towards_2020.pdf

The Danish Climate Policy Plan

http://www.ens.dk/sites/ens.dk/files/policy/danish-climate-energy-policy/danishclimatepolicyplan_uk.pdf

Our Future Energy

http://www.ens.dk/sites/ens.dk/files/policy/danish-climate-energy-policy/our_future_energy.pdf

Energy Strategy 2050

http://www.ens.dk/sites/ens.dk/files/dokumenter/publikationer/downloads/energy_strategy_2050.pdf



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energi
KLAGENÆVNET

The Energy Board of Appeal



Danish
Meteorological
Institute



Geological Survey of
Denmark and Greenland

ENERGINET/DK