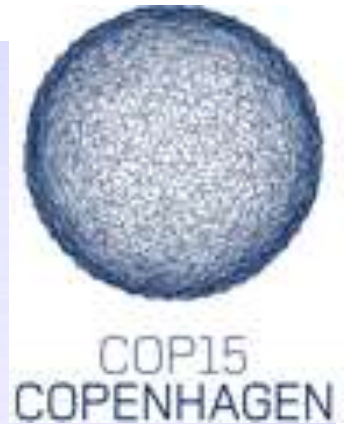


Energy Policy in Denmark focus on energy efficiency and renewable energy

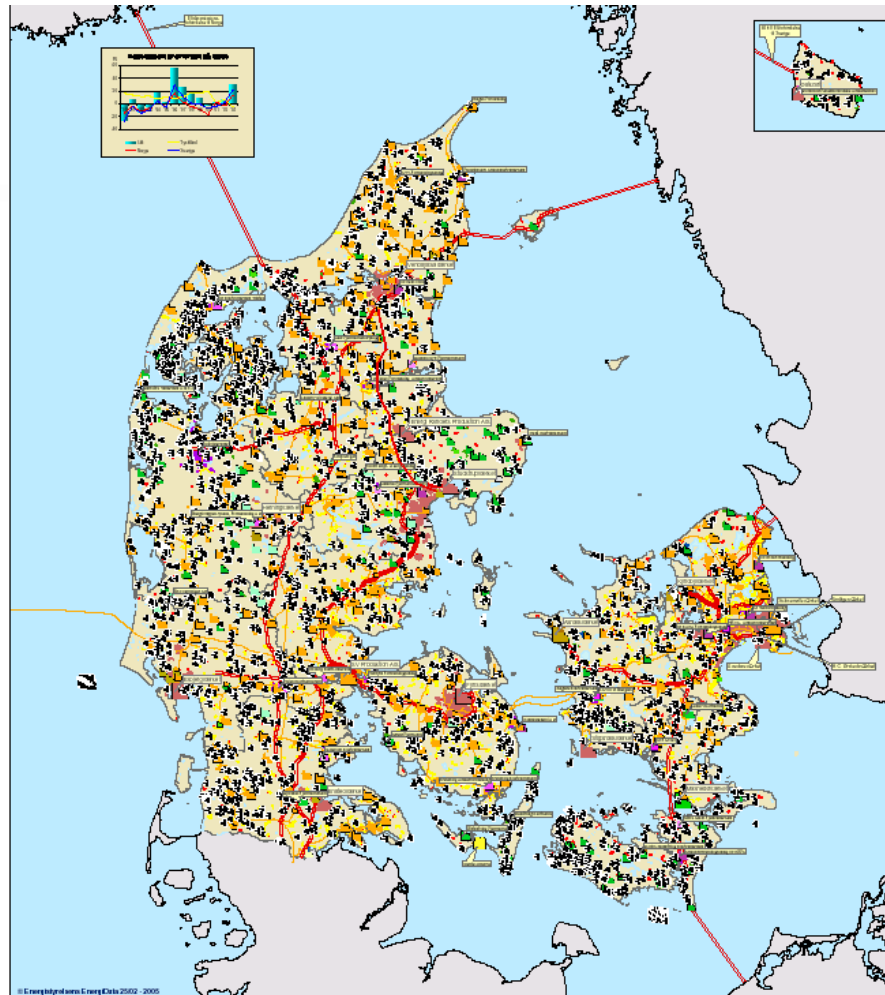


Senior Policy Advisor
Anders Hasselager

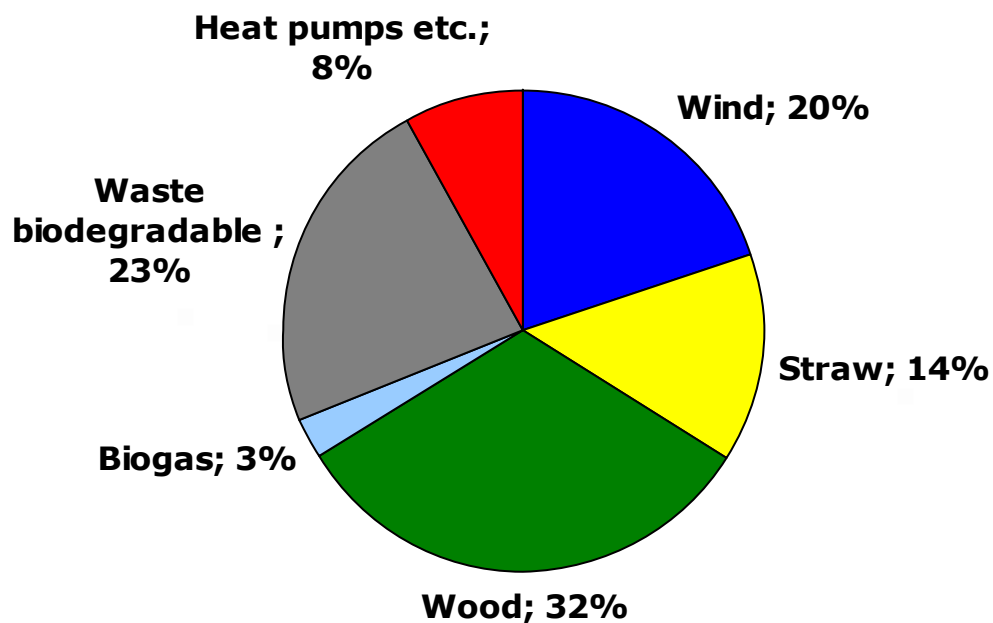


Prospects for Energy Business in the Region
Belgrade, 19 May 2010

Energy map of Denmark



Renewable energy in final energy consumption



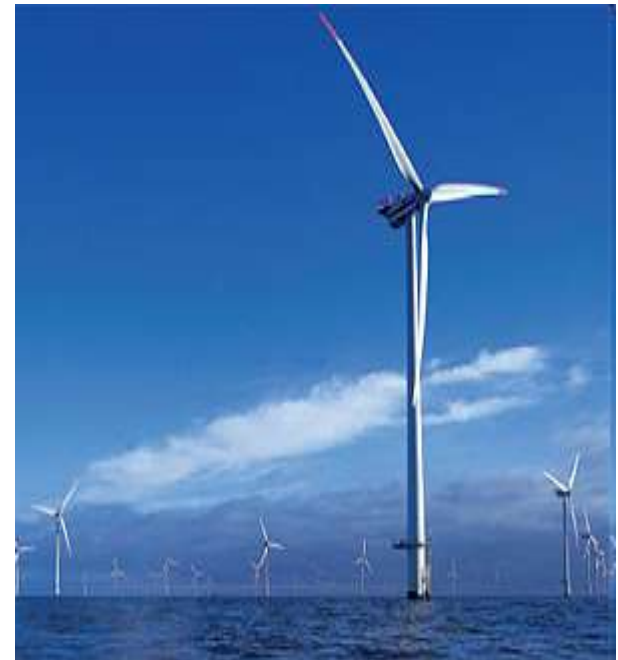
17% of the produced energy is based on new renewable sources

Wind Power Production

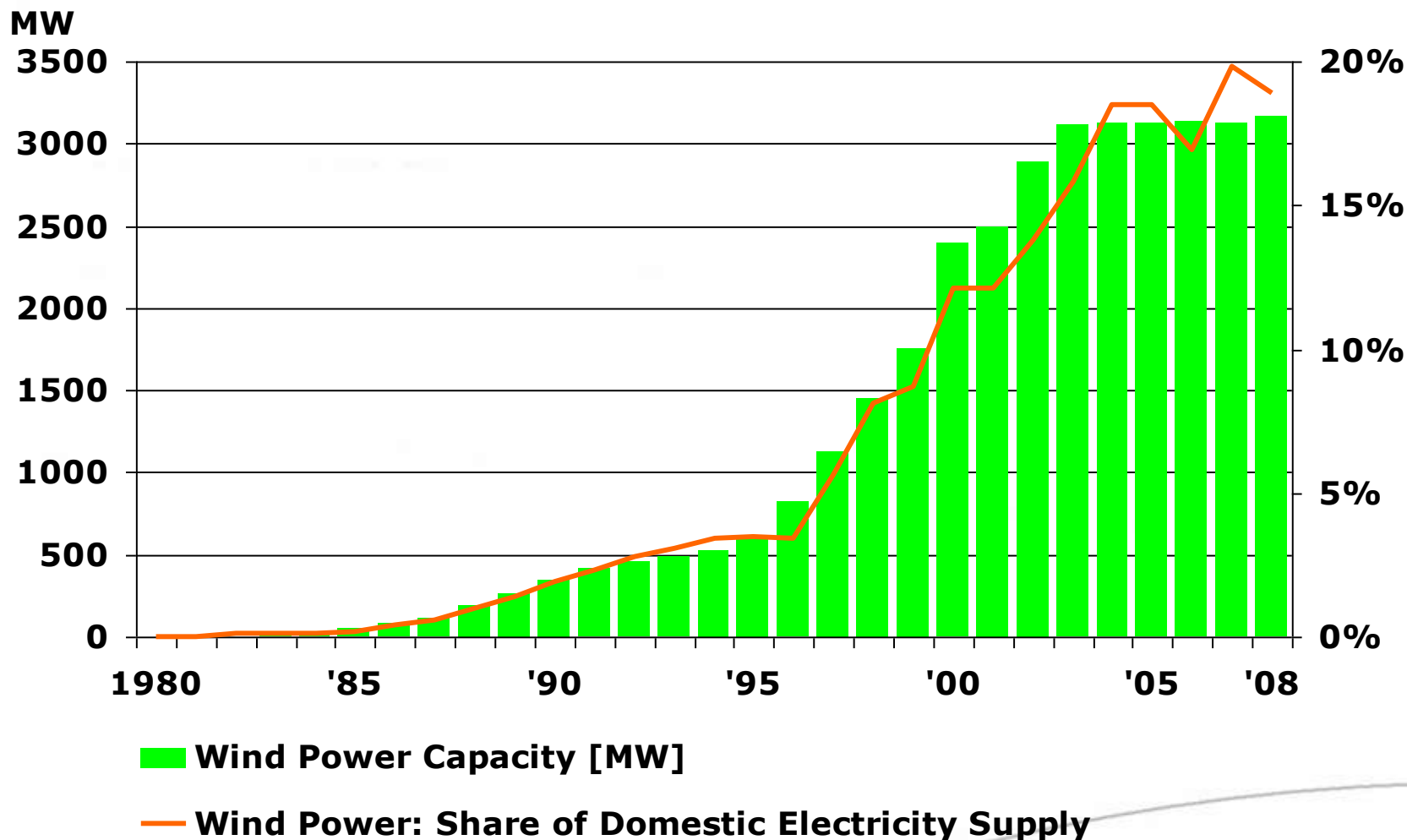
**Installed capacity app. 3.300 MW
of which 630 MW is placed
offshore**

In total we have 5.200 turbines

**National average
at normal wind conditions 24% of
electricity demand**



Wind Power: Capacity and Share of Domestic Electricity Supply



Key Instruments to promote RE

Historic perspective

- Public support to **research, development and demonstration** of RE-technologies
- **Investment grants** for standardized RE-equipment
- **Favourable prices** for electricity fed into the public grid
- **Tax incentives**
- A suitable legislative and **planning framework** - supporting the local initiative
- **Agreements** between the Government and the utilities: Wind power programmes and biomass agreement

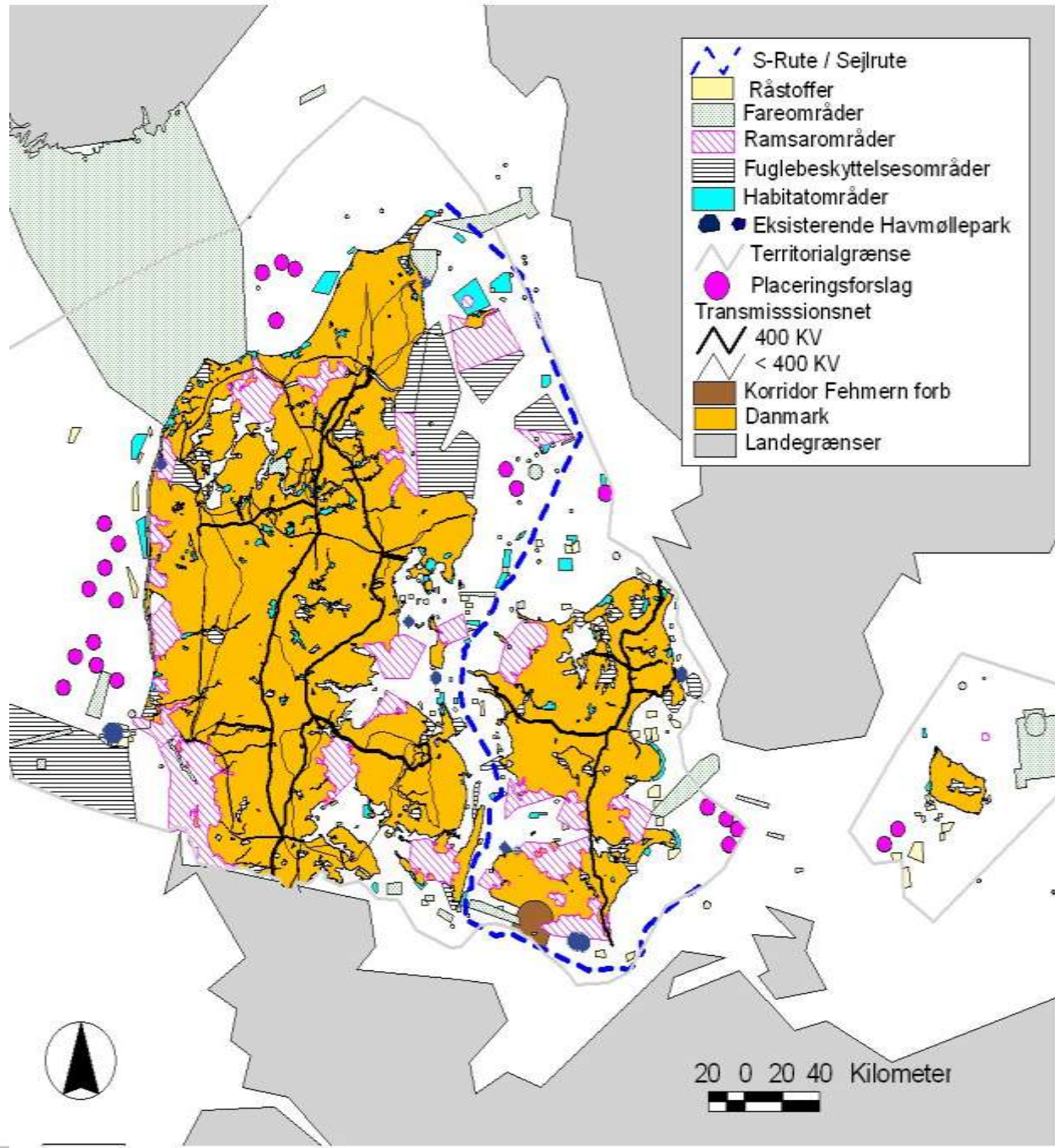


Location of future Wind turbine Parks in Denmark

April 2007



● = new location



Conclusions from the Environmental programme

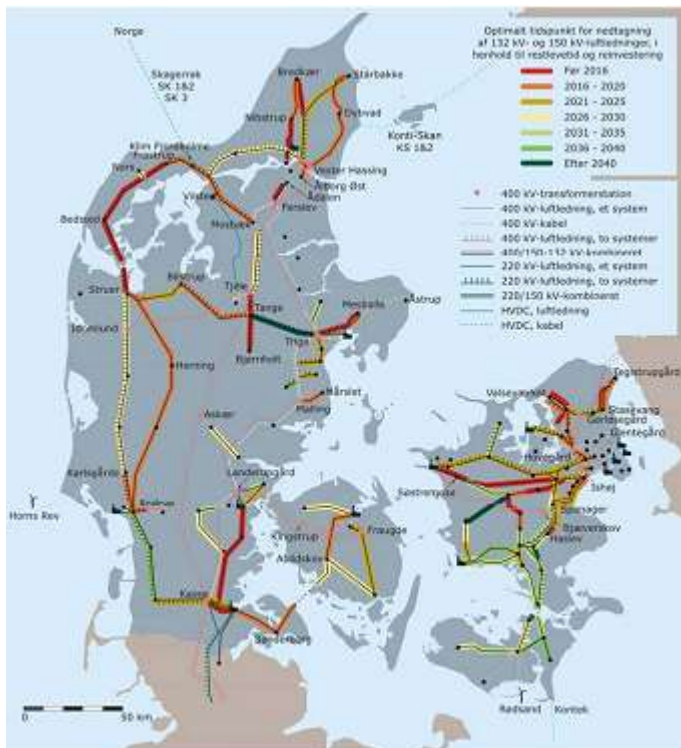
- Public acceptance
- Migrating birds avoid collision
- Seals behaviour not affected
- Harbour porpoises return to the sites
- Significant artificial wreck effect observed



TSO Grid Planning

- Full underground cabling of 3.200 km 132-150 kV overhead lines the next 20 years. Restructured in respect of future wind deployment – a USD 2,5bn investment

➤ Overhead lines 2010



Underground Cables 2030



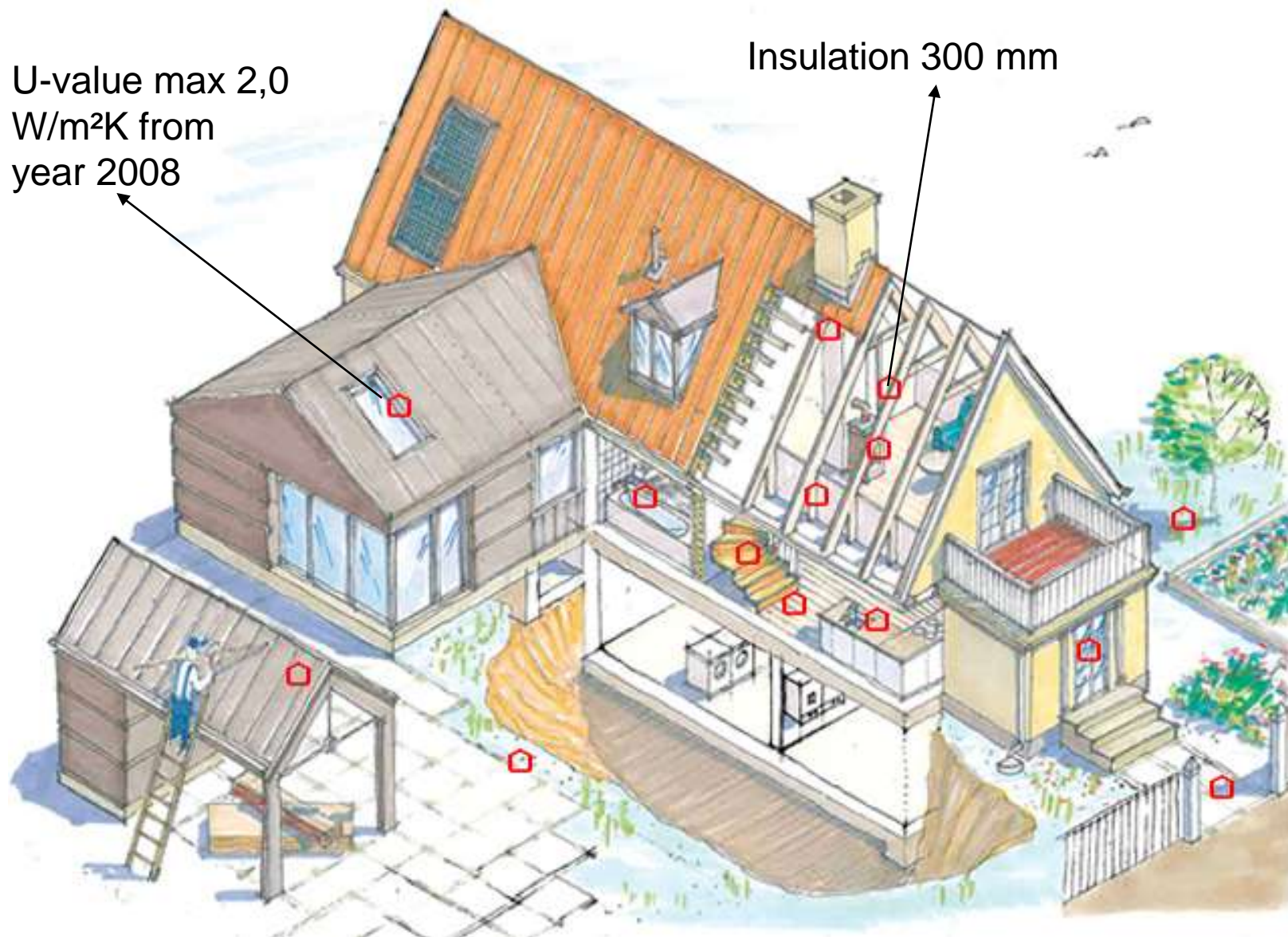
Focus on energy efficiency

Why focus on energy efficiency?

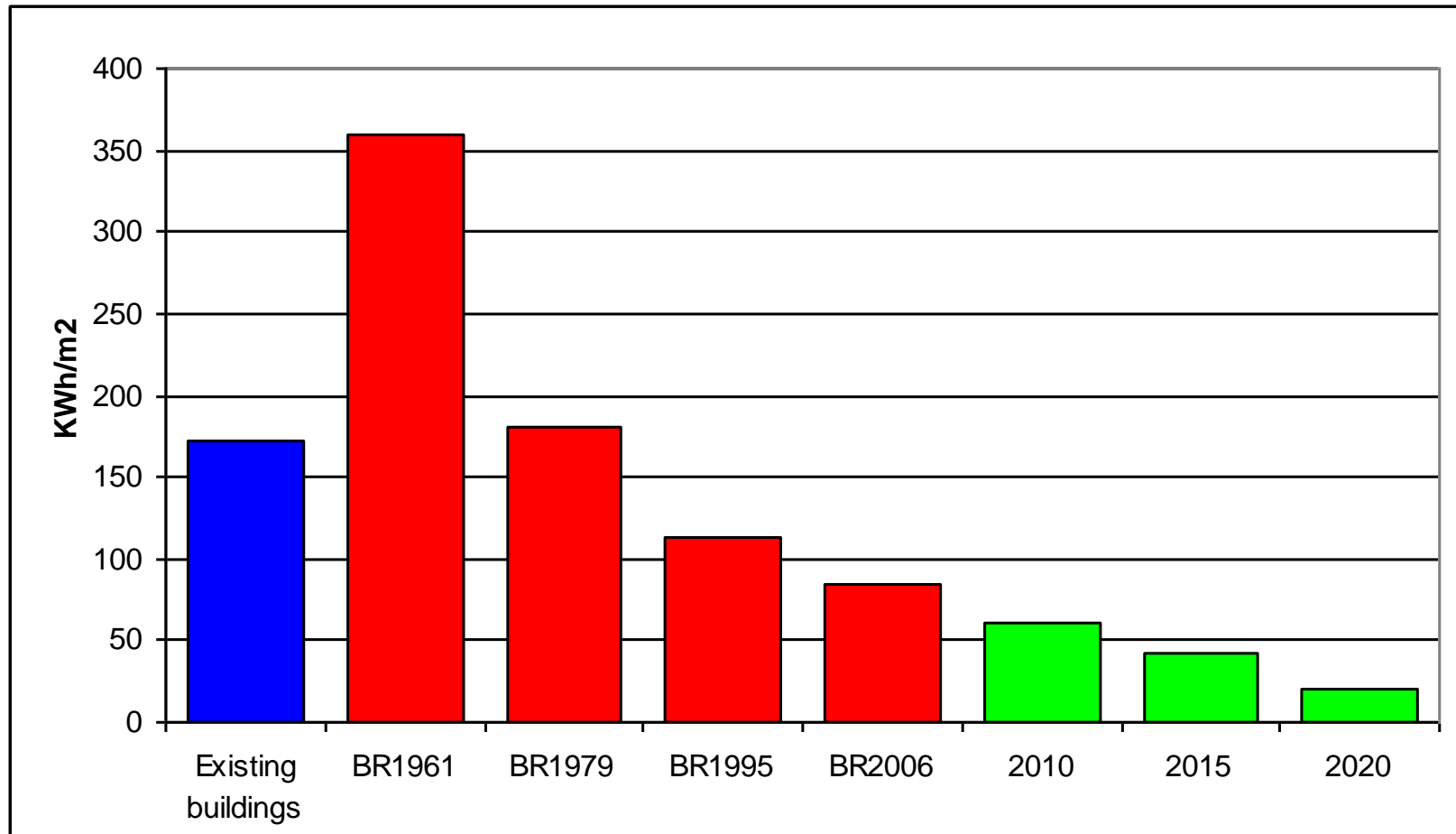
- Security of supply
- Climate
- Competition
- Local environment

U-value max 2,0
W/m²K from
year 2008

Insulation 300 mm



Danish building codes

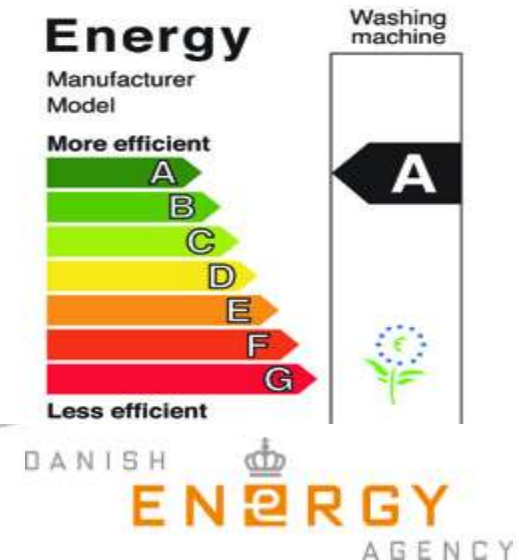


EU Directives

- The Directive on the energy performance of buildings (EPBD), 2002/91/EC
 - Inspired by Kyoto Protocol
 - Energy Performance Certificates for buildings
 - Inspection of boilers and inspection of air conditioning systems
- Directive on the promotion of End-use efficiency and Energy Services, 2006/32/EC
 - Energy efficiency and the energy service directive in the EU's integrated climate and energy policy. 2020 goals on 20% improved efficiency.
 - National energy efficiency action plans – a first assessment

More directives

- **Directive on the promotion of cogeneration based on a useful heat demand in the internal energy market 2004/8/EC**
 - Combined heat and power production
- **Directive of eco design requirements for energy-related products, 2009/125/EC**
 - product's life cycle
- **Energy Labelling Directive, 92/75/EEC**
 - Electric appliances (energy consumption + stand by consumption)



Scheduled plan of work for ECO – design products

<i>Product</i>	<i>Date for Publication</i>	<i>Step 1</i>	<i>Step 2</i>
Light/bulbs in households	March 2009	Sep. 2009	Sep. 2010
Standby consumption	Jan. 2009	Jan2010	Jan.2013
Simple settopboxes	Feb. 2009	Feb. 2010	Feb. 2012
Street lighting	March 2009	April 2010	Sep. 2012
External power supply	April 2009	April 2010	April 2011
TVs	July 2009	Jan. 2010	Aug. 2010
Refrigerator/ freezer households	July 2009	July 2010	July 2012
Electric motors	July 2009	June 2011	Jan. 2015
Circulation pumps	July 2009	Jan. 2013	Aug. 2015
	<i>Voting</i>		
Washing machines households	May 2010		
Dishwasher households	May 2010		
Electric fans	June 2010		
Hot water heaters	Sep. 2010		
PC's	Sep. 2010		
Electric pumps	Sep 2010		
Aircon and ventilation	Sep. 2010		

Top priority for the Danish Government:



Can Denmark become a fossil free society in 2050?

Report from The Danish Climate Commission – 28 September 2010

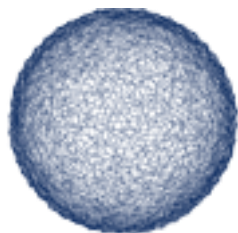




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Thank you for your attention



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