

# **Danish renewable energy strategy - offshore wind power**



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**Great Lakes Offshore Gathering for April 4, 2006**

# Agenda

- Danish Energy Strategy 2025
- Planning of offshore wind power in Denmark

# Danish Energy Strategy 2025



The contribution of renewable energy to electricity supply will amount up to 80% in 2025



New capacity must be cost-effective and market-oriented.



Extension of the electricity infrastructure to support increased use of renewable energy



Future expansion of onshore and offshore wind farms

# Danish Energy Strategy 2025



Construction of two new offshore wind farms: HR2 - to be commissioned 2009  
RS2 - to be negotiated



Different energy sources gives a more robust economic base



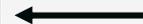
Expansion of Danish positions of strength in the development and production of effective energy technologies.

# Nysted and Horns Rev Offshore Wind Farms

Both Nysted and Horns Rev OWF are build as part of the "The Offshore Wind Turbine Action Plan for Danish Waters" from 1997.



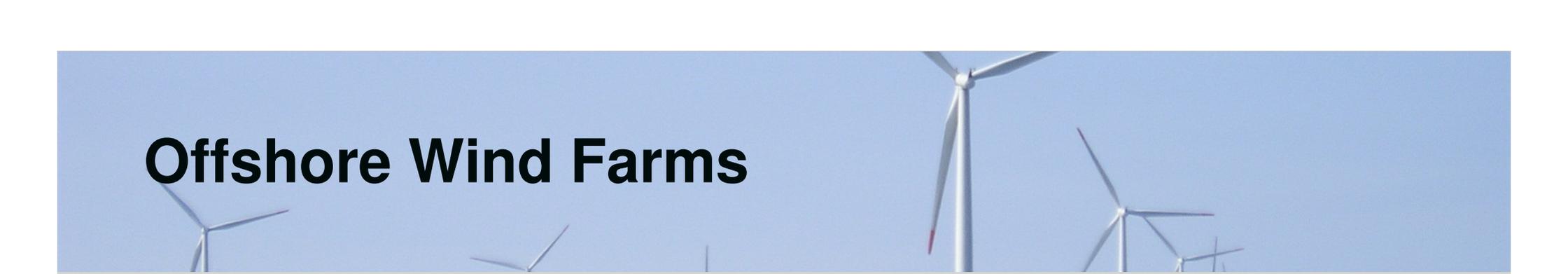
Horns Rev OWF



Nysted OWF



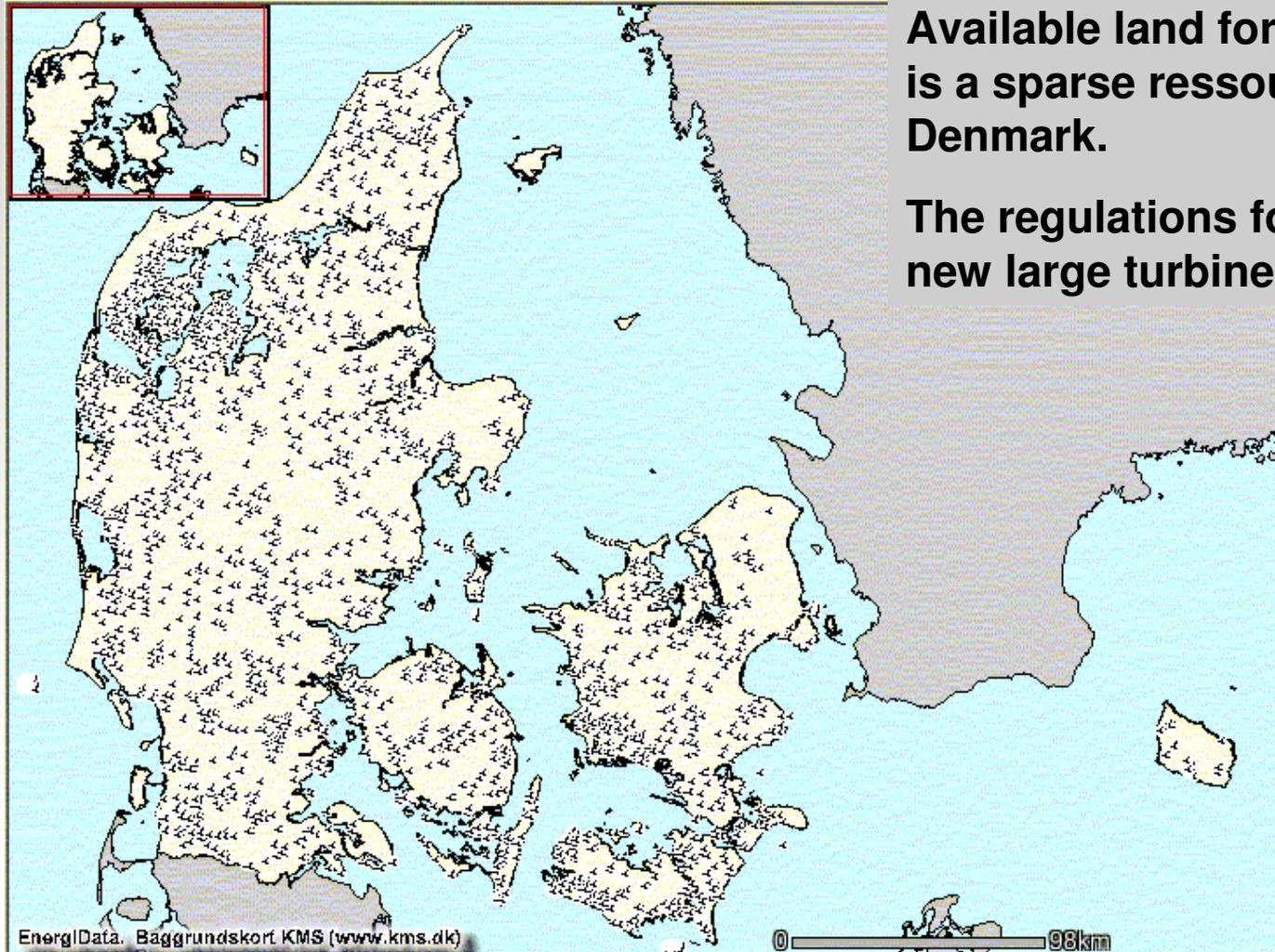
# Offshore Wind Farms



The Danish Energy Authority has in 2006 started a revision of the “The Offshore Wind Turbine Action Plan for Danish Waters”, and the main issues are:

- Grid connection
- Environment and public interests
- Assessing possibilities for the location of research wind turbines
- Assessing possibilities for the location of future offshore wind farms

# Offshore Wind Farms – why?



Available land for wind turbines is a sparse resource in Denmark.

The regulations for putting up new large turbines are strict

# Planning of Offshore Wind Farms



Planning-  
authority:

Offshore Wind  
Farms

Onshore Wind  
Farms

The Danish  
Energy Authority

Regional and  
local authorities

# Planning of Offshore Wind Farms

- Consent procedures of the two new 200 MW Offshore Wind Farms

