

DENMARK ASKS

WHAT MAKES TECHNOLOGY ECO-EFFICIENT?

Collaboration and partnerships between companies, universities, research institutions and public authorities is crucial to the development of new eco-efficient technologies. Governments can play an important role in ensuring optimal framework conditions for sustainable development.

As a result of targeted efforts over many years, Denmark has gained a strong position in the development and application of environmental technologies, and so is well placed to play a central role in finding new and better solutions to many of the environmental problems facing the world today.

New and more efficient environmental technologies can help reduce and eventually eradicate CO₂, SO_x and NO_x emissions from energy production and use, the environmental impact from the transport sector, make food healthier and ensure an unpolluted aquatic environment.

But technologies alone are not enough. They must go hand in hand with politically defined objectives, as well as investment and regulation by the state to create the conditions for thriving commercial partnerships, to the benefit

of businesses, consumers and the environment.

To this end, the Danish government has formulated an action plan to further develop eco-efficient technologies, for open consultation with all collaborative players:

Partnership for innovation The aim is to strengthen innovation and accelerate technology development in Denmark by stimulating close interplay between private and public sector players.

Promotion of exports The aim is to gain a better foothold for new Danish eco-efficient technologies on markets with a strategic role from an economic and environmental viewpoint.

Research The aim is to improve conditions for public-private sector interplay in eco-efficient technology research.

Consultancy, knowledge and information The aim is to help companies target eco-efficiency technology development to better exploit future global needs.

Promotion of eco-efficient technology in the EU The aim is to close the gaps

between environmental goals in the EU and technological potentials for delivering solutions that are coherent with the need for competitiveness and economic growth.

Climate and energy The aim is to further stimulate development of efficient Danish energy technologies that can significantly reduce greenhouse gas emissions and thus help combat global warming.

Environmentally friendly agriculture The aim is to strengthen the development of eco-efficient agricultural technologies to the benefit of both exporting companies, farmers and the environment.

Clean water The aim is to enhance development of Danish technological solutions across a full range of water usage areas to help ensure an unpolluted aquatic environment.

Healthy environment The aim is to promote development of targeted eco-efficient technologies to tackle e.g. air pollution, noise and toxic chemicals, to the benefit of both the environment and the economy.

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CASE

THE MEGAWIND PARTNERSHIP

Megawind, a partnership for mega wind turbines, was established in autumn 2006 as part of the Danish government's action plan to promote eco-efficient technology.

The overall aim of Megawind is to develop a new shared strategy for research and innovation in wind power in order to strengthen Denmark's position as a world leading competence centre in wind power. The industry employs more than 21,000 people in Denmark and in 2006 generated revenues worldwide of approx. EUR 6.5 billion.

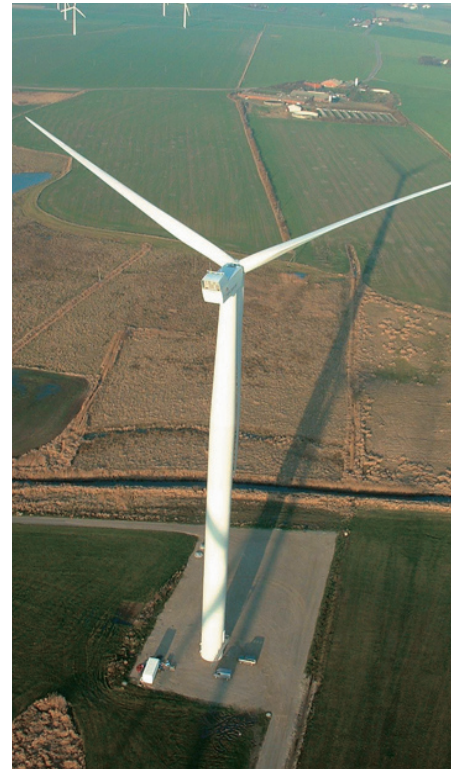
Megawind will promote and initiate a strengthened testing, demonstration and research strategy for wind power, and its recommendations will be a reference for future strategic research in wind power in Denmark.

Megawind partners comprise:

Vestas Wind Systems A/S
Siemens Wind Power A/S
DONG Energy A/S
The Technical University of Denmark
Risø National Laboratory, the Technical University of Denmark
Aalborg University
Balluff ApS
Energinet.dk
The Danish Energy Authority

As a first step towards meeting its objective, Megawind has prepared a report to assess the challenges Denmark faces in retaining its leading international position in wind power.

In the report "Denmark's future as a competence centre for wind power", Megawind also proposes an overall strategy for testing and demonstration of wind power technology and wind power's integration in the collective energy system, as well as a proposal for a strategic research effort.



One of the challenges outlined in the report is how to increase wind power capacity to 6.000 MW by 2025.

Photo: Risø National Laboratory



The strategic research effort aims at improving framework conditions for cooperation between research institutions and the wind power industry.

Photo: LM Glasfiber