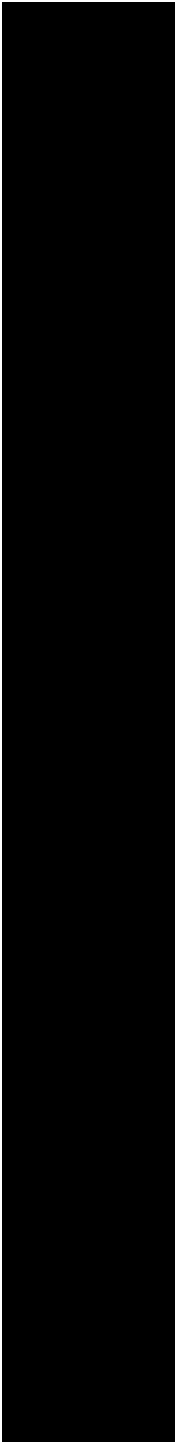


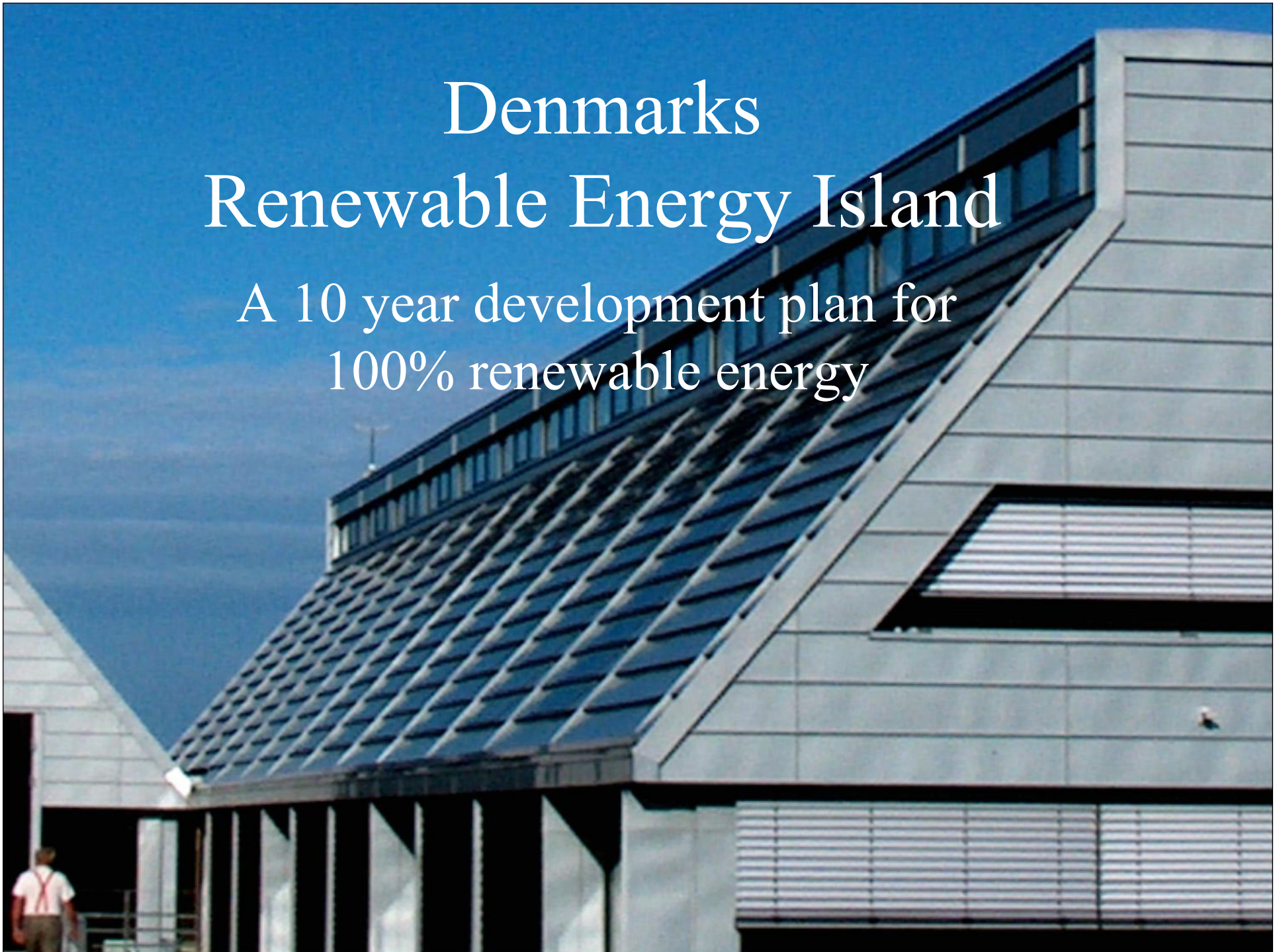


**CATCHING
ENERGY
ISLANDS
SPIRIT**



Denmarks Renewable Energy Island

A 10 year development plan for
100% renewable energy



Hesja!
Hello!



SØREN
Director,
Samsø Energy Academy

In 1997, we pledged to give up fossil fuels
and convert to 100% renewable energy
by 2008.

Welcome to...

The Energy Island!



SAMSØ ISLAND

Country: Denmark

Population: over 4000

Area: 114 square kilometres

Location: about 20 kilometres off
Denmark's main peninsula

LEGEND



Heating
Plant

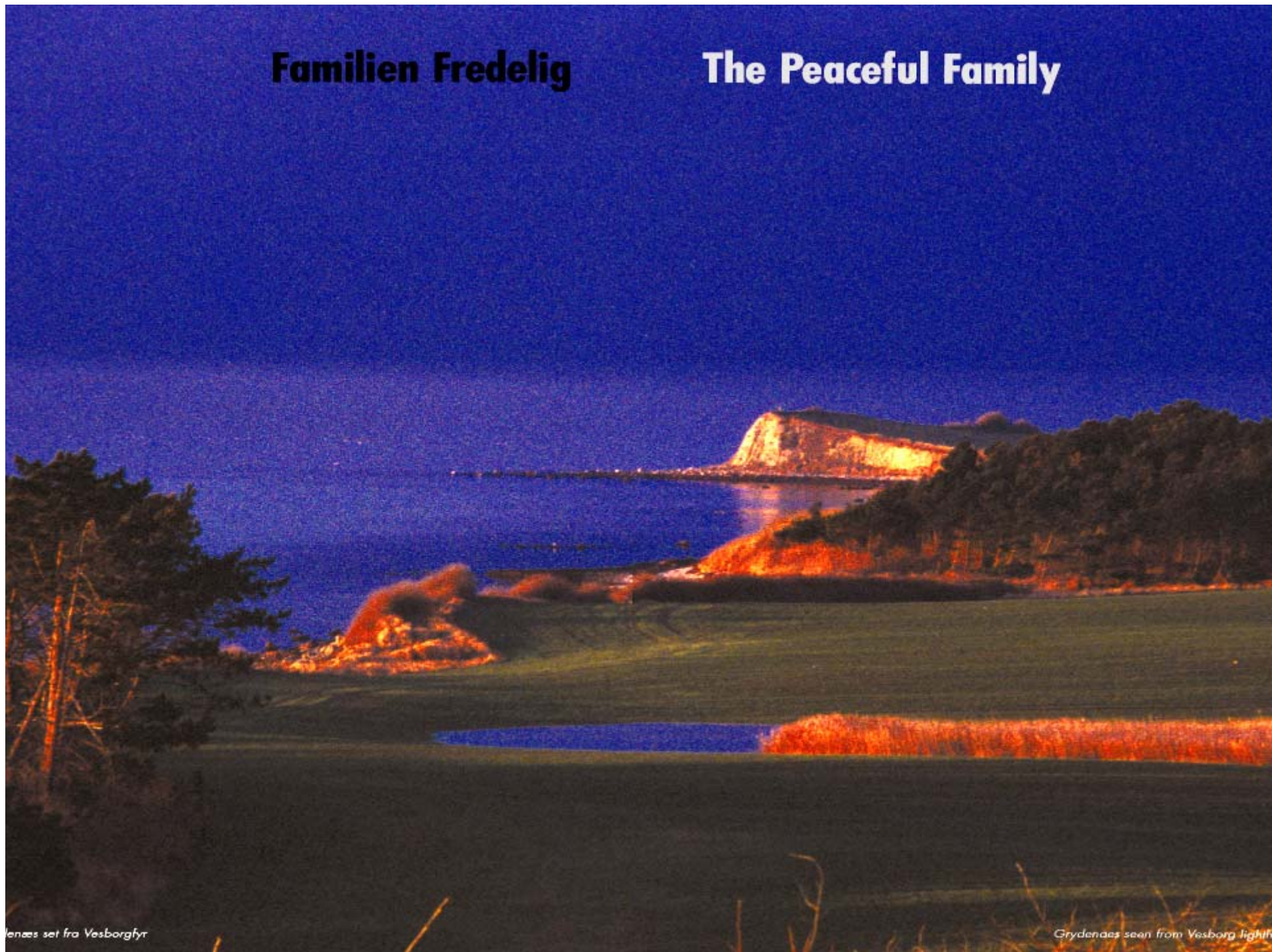


Wind
Turbine



Familien Fredelig

The Peaceful Family



Menæs set fra Vesborgfyr

Grydenaaes seen from Vesborg lighthouse

Øens stemmer

Island Voices



Lokale på tur i Stran

*Locals
the Stran*









In the center of Denmark







Background and organization

- Survival of the island
- New strategy
- More jobs
- Local economy
- Independence
- CO₂ neutral
- Energy democracy
- Local activity!!



-Implementing renewable energy in local action plans needs:

-National targets based on feed-in tariffs and legislation agreements

-Long term agreements – not only a 4-year election period!

- Investment capital from local action to co-finance EU/ National framework

Individual planning

Common opportunities

- *Each community has a special RE plan*
 - Planning is a public tool
 - Local resources are used
 - Local business is involved
- **RESULT**
 - More challenging jobs
 - Better local economy
 - Local capacity
 - The money stays in the community.

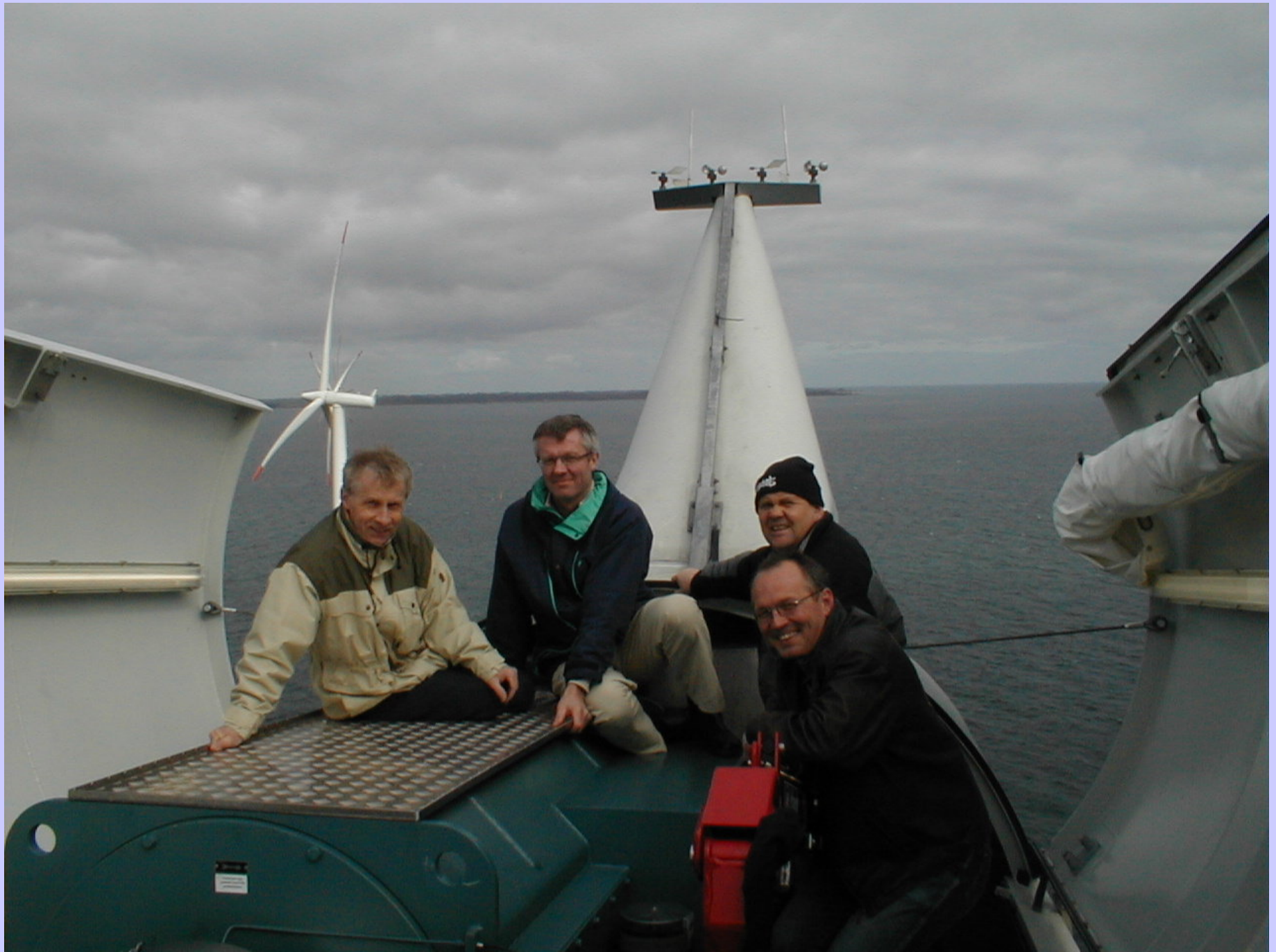
The Energy Office



- Public opening hours
- Information about RE
- Assistance in planning
- Workgroup meetings
- Education
- Campaigns and demonstration
- "Open house" meetings







Local heating





RE Development

District heating:

Windpower:

Total CO₂ reduction:
140 %



Off shore:







Summary

- 100 % electricity from land-based windmills
- 75 % heating from RE-sources
- 100 % RE-compensation from sea-based windmills for the energy used on transportation



SAMSØ
ENERGIKADEMI











中国上海市崇明县和丹麦奥胡斯州萨姆斯市合作交流意向
Letter of Intent on Cooperation and Exchange between Chongming
County of Shanghai, China and Samsøe of Aarhus County, Denmark

签约仪式
Signing Ceremony



chow-Dannenberg,
Germany



EUROPEAN CONFERENCE FOR RENEWABLE ENERGY

'INTELLIGENT POLICY OPTIMIS'



Mortenson
 EPC Contractor
 ENGINEERING/ DESIGN
 ECI
 ELECTRICAL CONSULTANTS, INC.
 HDR
 HDR
 Struct
 Terracon
 Consulting Engineers & Scientists
 Westwood
 Westwood
 Ingenuity. Exp



Wind Farm, LLC
Enel
 Tradewind Energy, LLC
 APAC - Kansas, Inc.
 Shears Division - Salina Branch
 Civil Contractor
 Power Partners 1979, LLC
 Electrical Contractor
 Vestas American Wind
 Technology, Inc.
 Turbine Manufacturer/ Installer
 www.mortenson.com

Local ownership



Investment and Economy

1998 cost of imported energy

- 10 million US dollars energy import cost

Investments

- 75 million US dollars invested in 10 years
- 65 million US dollars from citizens, local households, companies, municipality and energy company
- 10 million US dollars from national and EU framework

Framework importance

To make decisionmakers able to plan for the future we need:

- reliable policy
- longterm framework and targets
- reasonable budgets
- local individual action plans
- brave politicians !!!!!
- more local heroes!



fighting or sharing?



See you in Copenhagen
December 2009 for the
COP 15 Climate meeting





SAMSØ

JYLLAND

SPONGA

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www.samsohavvind.dk