

# Concerted action for Offshore wind energy Deployment COD

Belgium - Denmark - Germany - Ireland - Netherlands - Poland - Sweden - United Kingdom



Funded by DG TREN (FP5)

# Offshore Wind Energy Deployment in the European Union



Concerted action Offshore wind energy Deployment (COD)

## Principal Findings

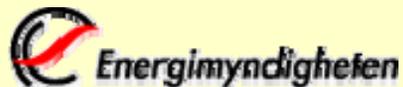
Ruud de Bruijne (SenterNovem)

Helen Snodin (Garrad Hassan)

Copenhagen Offshore Wind 2005,  
26-28 October 2005, Copenhagen



AEA Technology plc





## Content

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- **COD**
- **Environmental Impact**
- **Legal frameworks – legislation**
- **Grid integration**
- **Conclusions**
- **Future**



**COD**

## Ministerial Working Group

Energy Ministries

### Advisory board

EWEA, EUREC, ETSO, Greenpeace, WWF, SAR

### Observers

European Commission  
Energy Agencies EC memberstates

### Working Group

Energy Agencies or delegated 3rd parties

### Subcontractors





## What are we doing?

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### Issues

- **Environmental impact**
- **Legislation**
- **Grid integration**

### Approach

- **Analysis state of knowledge,**
- **Find best practices & possibilities for speediness**
- **Draw conclusions on (non) priorities & future strategies**



## **Environmental impact**

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### **Results:**

- **All relevant studies in database (286)**
- **Impacts lower than postulated**
- **Siting most important for mitigation and social acceptance**

*(Single case results only – generalisation limited)*

### **Future:**

- **Cumulative effects area for investigation**
- **Planning tools cumulative & trans national level (e.g. SEA)**



## **Environmental impact**

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- **Benthos**  
**Increase of biomass & biodiversity**
- **Fish**  
**Positive effects. Negative impacts negligible**
- **Marine mammals**  
**No effects on habitats**
- **Birds**  
**Avoid wind farm area. No significant strikes seen**



**COD**



## Environmental impact offshore wind farms ?





## **Legal framework - legislation**

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- **Frameworks introduced**
- **Differences: early or late selection developers**
- **Overall requirements similar**
- **All frameworks work**
- **MS's: no drivers for harmonization**
- **Speediness: one stop shop in some countries**



## **Legal framework - legislation**

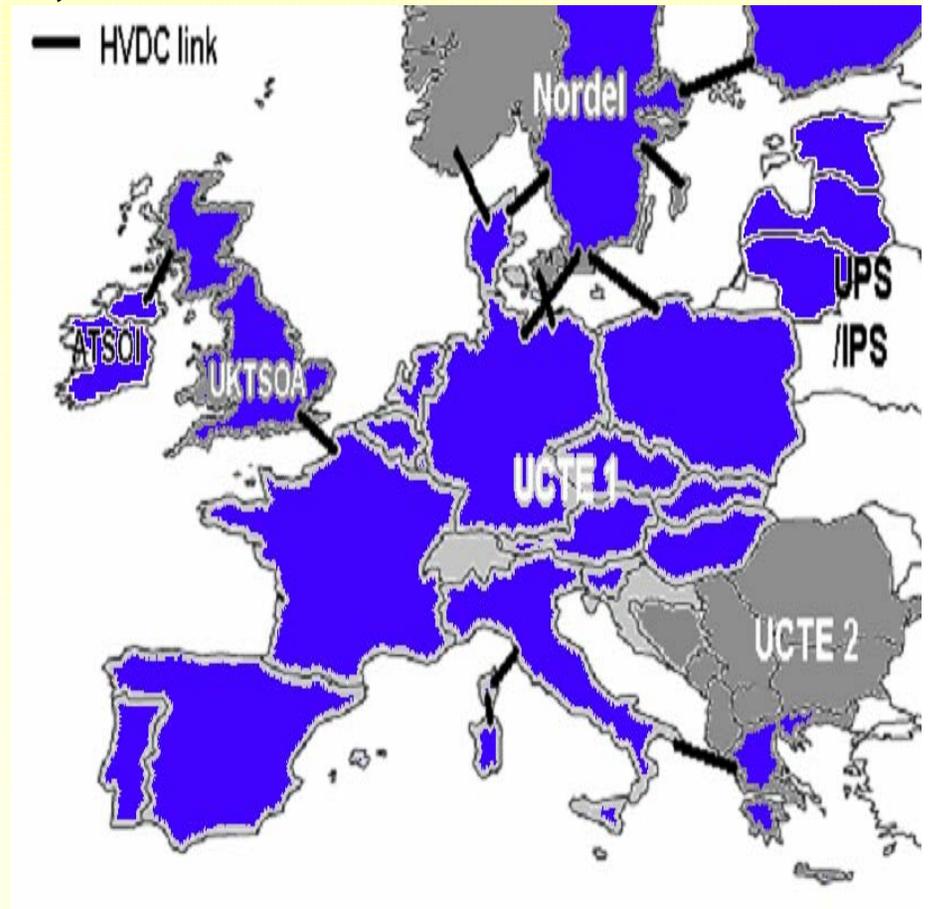
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- **Tender system in  
United Kingdom, Denmark and Belgium  
- 22 new applications; > 500 MW realised**
- **First come, first served system in  
Netherlands, Ireland, Sweden and Germany  
- 95 new applications; > 150 MW realised**



## Grid integration

- Different emphases in Scandinavia, British Isles & Central/Western Europe
- Short term: integration possible
- Long term: EU effects? Study required!
- Common issues
  - grid reinforcement
  - offshore grids
  - grid access, pricing & balancing





## **Conclusions**

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- **Environmental impact:**
  - => short term: no bottleneck**
  - => long term: cumulative impact dominant (siting)**
- **Legal framework – legislation:**
  - => they work**
  - => improvements possible**
- **Grid integration:**
  - => short term: no bottleneck**
  - => long term: study effect at EU level required**



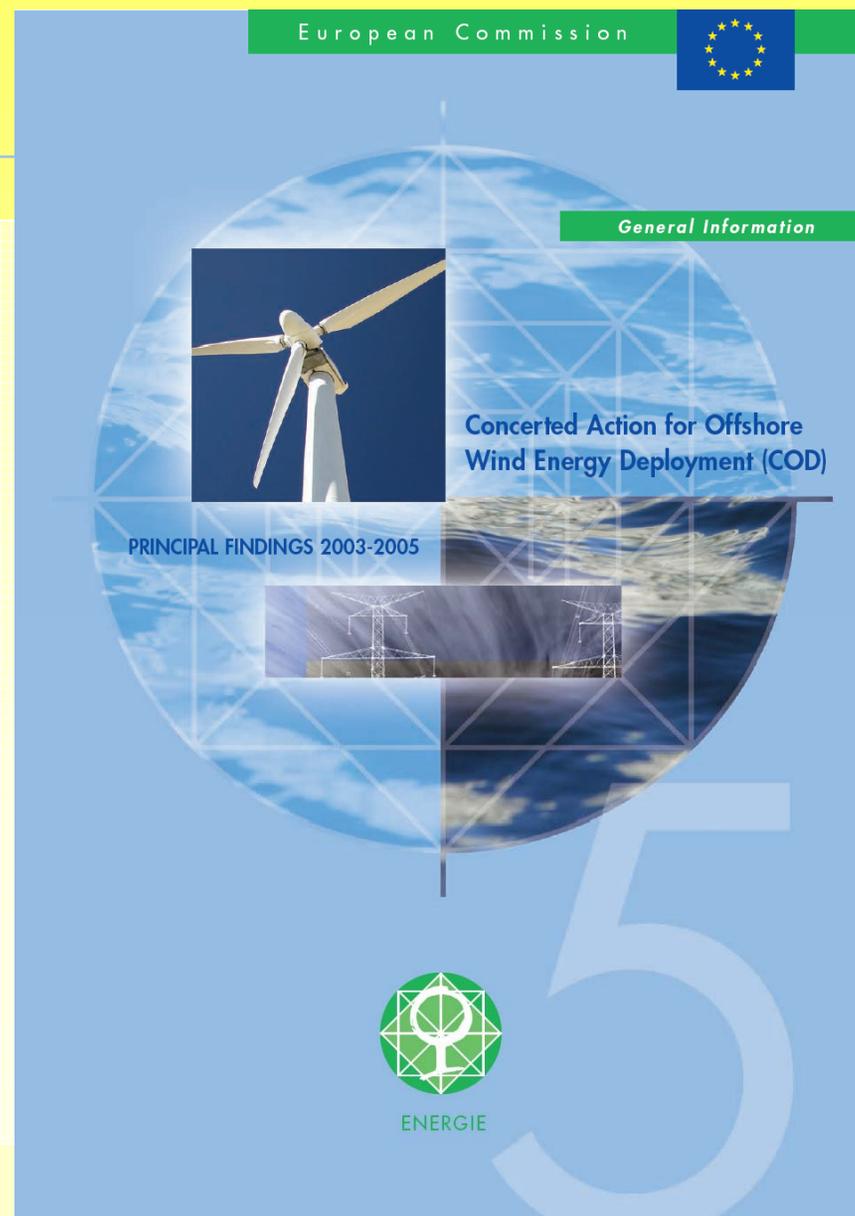
## COD deliverables

- **Principal Findings (overview)**
- **Database environment**

### **Comprehensive reports on:**

- **Environmental issues of OWE**
- **Legal and Administrative Issues**
- **Grid Issues**

**Downloadable from website**





## Future: COD II (2006 – 2009) ?

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- **Preparation ongoing (ready in December)**
- **Environmental Impact**
  - to be continued and improved
- **Legal frameworks – legislation**
  - no need for maintain overview and dissemination ?
- **Grid integration**
  - not in COD approach ?
- **Ideas an comments welcome**



## **more information on COD:**

**Listen: 3 presentations Friday 9 AM, Policy Session**

**Surf: [www.offshorewindenergy.org/cod](http://www.offshorewindenergy.org/cod)**

**E-mail: [r.de.bruijne@senternovem.nl](mailto:r.de.bruijne@senternovem.nl)**

**[helen.snodin@garradhassan.com](mailto:helen.snodin@garradhassan.com)**

