“Current and future legislation regarding fishing within windturbines in Denmark, practical examples, point of view from the Danish Fishermen’s Association”

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Chapter 15
Fishing compared to other activities
A. Regulations for the protection of fisheries

§ 76. Legal fishing activities must not be hindered in any way.

The Danish Fishermen’s Association’s aim is to maintain the fishing possibilities most places.
Placement of wind farms in Danish waters

Future planned windfarms
Main wind speed in Danish waters

Main Wind speed and depth of water decide the future windfarm positions.
The next wind farm in Denmark, 400 MW and transformer will take up about 110 square kilometre. Fishery with static gear will be allowed inside the farm. The park owners are still worried about the underground cables. This is the reason for banning towed gear inside wind farms in Denmark.
Cables on the sea bottom

Agreements are made between the fishing industry and the cable owners in order for fishing to be conducted over the power cable from land and to the wind farm when this is put down.
Horns Rev II

- About 200 MW farm opposite Esbjerg
- Opened in 2009
- Construction phase about 2 years
- Running phase about 25 years
- Different owner of the cable who was also responsible of putting the cable in the underground
The sandeel fishery
Large Sandeel fishery area.
Possible positions for placement of windfarms
The final area of the windfarm. It was moved to the north to keep fishing grounds open for the Danish sandeels fishermen.
Compensation

- Based on the Danish fishery law the Danish fishermen are entitled to be compensated when a wind farm is built in Denmark.

- The compensation depends on the area’s value to the fishermen over the last 10 years.
Compensation

- Landing values by the whole ICES square are used.
- Scaled down to fit the area of the wind farm.
- Landing values of the most important species of the area are used.
- Evaluation - if the area of the wind farm is better or worse than the main area. Species are then multiplied by the factor.
Wind farms and fish

- In Denmark, most wind farms have been placed in areas with very little fishing.
- Some of the earliest farms are closed to fishery while all newer are open for fishery with static gear.
- Today, not much fishing occurs inside wind farms in Denmark, because of harder navigation compared to outside and low fish stocks inside most farms.
Wind farms and fish

- New structures in the areas of wind farms, create new habitats and attract new fish species to the areas.

- In the future, new specialized fisheries will develop inside the wind farms.
Future legislation

- The Danish Fishermen’s Association believes that it will soon be allowed to conduct fishing over the cables within wind farms.

- Wind farm design and new techniques to put the cables down will make this possible.
Natura2000 and wind farms on the Dogger Bank

Value 2010: approx 50,000,000 € to Danish fishermen
Natura2000 and wind farms on the Dogger Bank

- Where will the wind farms be placed?
- How much space will they take up?
- Will it be possible to fish inside the wind farms?
- Will wind farm owners listen to the fishermen who use the areas today?
Future

- More and more wind farms are built in EU waters.
- The fishing industry looses fishing grounds every day, so in the near future we need to have the possibility to conduct fishery inside all parks.
- Wind farm owners and the industry need to cooperate to reach an agreement where this is possible.