



International Workshop on Feasibility of HVDC Transmission Networks for Offshore Wind Farms

March 30-31, 2000
Stockholm, Sweden

Final Workshop Program

Thursday 30 March

9:00-13:00 Registration

11:30 – 13:00 Speakers Lunch

13:00 - 13:15 Welcome and Introduction, Lawrence E. Jones, KTH

13:15-15:00 Session 1: HVDC transmission systems - New converter and cable technologies

13:00-14:00 Presentations:

- **Gunnar Asplund**, ABB Power Systems, Ludvika, Sweden; “*Overview of New HVDC Technology*”
- **Olof Martander**, Chalmers University of Technology, Göteborg, Sweden; “*Alternative Technology for Offshore Transmission Systems*”.

14:00-15:00 Discussions: Leader, Prof. Göran Andersson, KTH

15:00-15:20 Coffee break

15:20-17:50 Session 2: Advances in Offshore wind energy technology

15.20-16.50 Presentations:

- **Paul Gardner**, Garrad Hassan & Partners UK: “*Offshore Wind Energy: Resources, Technology and Grid Connection*”;
- **Koen Macken**, TU Delft, Netherlands, Dept. of Electrical Power Processing; “*DC Transmission Systems in Offshore Wind Farms*”;
- **Vladislav Akhmatov**, NESAs, Denmark; “*Computer Models of Grid Connected Wind Turbines*”.

16:50-17:50 Discussions: Leader, Prof. Lennart Söder, KTH

19:00 Dinner

Friday 31 March

09:00-12:30 Session 3: System aspects and grid interconnection

9:00-10:00 Presentations:

- **Hans Knudsen**, NESAs, Denmark, “*Offshore Windfarms in the Danish System*”;
- **Peter Christensen**, NVE HVDC Group, “*Integration of Large Scale Off-Shore Wind Power Plants – System Aspects, STATCOM stabilization and VSC HVDC Connection*”;

10:00-10:30 Discussions: Leader, Prof. Göran Andersson, KTH

10:30-10:50 Coffee break

10:50-11:50 Presentations:

- **Ana Diez Castro**, Vattenfall Utveckling AB, Stockholm, Sweden, “*HVDC Light on the Swedish Island of Gotland*”;
- **Lennart Söder**, Professor at KTH, Electric Power Systems, “*System Aspects of Large Amounts of Offshore Wind Power*”.

11:50-12:30 Discussions: Leader, Prof. Göran Andersson, KTH

12:30-13:30 Lunch

13:30-15:30 Session 4: Business models for the operation of offshore HVDC transmission networks

13.30-14.30 Presentations:

- **Jens Hobohm**, Prognos AG, Berlin, Germany, and **Thomas Ackermann**, KTH-Electric Power Systems, Stockholm, Sweden, “*Some Thoughts on Market Regulations and Business Models for HVDC Networks for Offshore Wind Farms*”
- **André Bitén**, Vattenfall, Stockholm, Sweden, “*The Baltic Ring Study – What can we learn from it?*”

14:30-15:30 Discussions: Leader, Prof. Lennart Söder, KTH

15:30 –16:00 Final Discussions, Lawrence E. Jones, KTH

16:00 End of workshop --