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## REFERENCES

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**SPOK ApS** consists of **SPOK Consult** and **SPOK System**. SPOK ApS is owned by HOP Holding ApS owned 100% by Hans Chr. Sørensen.

**SPOK Consult** is based on consulting and project management with core activities within energy- and environmental technologies and product development. Hans Chr. Sørensen, who is also in charge of EMU, manages SPOK Consult.

**SPOK System** is engaged in prevention of work-related accidents such as repetitive strain injury (RSI). SPOK System resells and supports Dragon® speech recognition software. This software makes it possible to use the computer without using the hands, e.g. when creating texts.

**SPOK ApS** employs in co-operation with EMU 6 person.

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### References for Hans Chr. Sørensen EMU and SPOK ApS:

- 2002-03 Due diligence off shore wind farms in USA, Canada, Ireland and UK.  
Different clients.
- 2002-05 Project management of the *Sea testing and Optimisation of Power Production on a Prototype Test Rig of the Offshore Wave Energy Converter Wave Dragon Scale 1:4.5. EU and different industries. Total project: 2.7 MECU.*  
Client: Wave Dragon ApS, Danish Utilities and EU.
- 2001-02 *Establishment of the Samsøe offshore wind farm, 23 MW.*  
Client: Samsøe Havvind A/S and SEAS Distribution AmbA.
- 2001-03 Project management of the *Test Program for the Wave Dragon Prototype, an Offshore Wave Energy Converter scale 1:4.5. Danish Energy Agency and different industries. Total project: 1.5 MECU.*  
Client: Wave Dragon ApS and Danish Energy Agency.
- 2001-02 *Establishment of a business plan for the Wave Dragon, an Offshore Wave Energy Converter.*  
Client: Danish Energy Agency.
- 2001 *Strategy for Utilization of Biomass for Production of Combined Heat and Power.*  
Client: Danish Energy Agency, in cooperation with the independent system operators: Eltra and Elkraft System.
- 2001 *Participation in the Danish Offshore Wind Farm Program (750 MW) by Non-Utilities. A Pre Study.*  
Client: Danish Association of Wind Turbine Owners, Danish Utilities (Elsam and E2) and Danish Energy Agency.
- 2000-01 *Establishment of Organization Models for the Participation in the Danish Offshore Wind Farm Program (750 MW) by Non-Utilities.*  
Client: Danish Association of Wind Turbine Owners, Hans Bjerregaard Consulting and Danish Energy Agency.
- 2000 *Evaluation of project proposals to the EU Fifth Framework Programme.*  
Client: EU.
- 2000-01 *Project manager of research project with the aim to investigate if the introduction of speech recognition can reduce the risk of getting repetitive strain injuries (RSI). The proposal is that it is beneficial to use speech recognition in combination with mouse and keyboard.*  
Client: Danish Ministry of Labour.
- 2000-02 *Assistance in formulating applications to the EU by SME's. Subjects: energy, concrete technology and fine chemistry.*  
Client: Danish Agency of Trade and Industry, EU and EuroCenter Denmark.

- 2000-02 *Concerted Action on Offshore Wind Energy in Europe*, Task leader: Social acceptance, environmental impact & politics.  
Client: EU and Delft University, NL.
- 2000-03 *Thematic Network Wave Energy*, Task leader: Social, planning and environmental impact.  
Client: EU and AEA Technology Plc - ETSU, UK.
- 2000-01 *Development and Test Program of a Low Head and Variable Flow Hydro Turbine for the Wave Dragon, an Offshore Wave Energy Converter. Danish Energy Agency and EU Joule Craft. Total project: 0.26 MECU.*  
Client: Löwenmark F.R.I, Danish Energy Agency and EU.
- 1999-03 *Adviser for the Danish Wave Energy Association responsible for the Danish Tesite for wave Energy and test for inventor's prototypes.*  
Danish Wave Energy Association and Danish Energy Agency
- 1998-02 *Feasibility study of the establishment of an off shore Wind Farm, situated outside Samsø – Phase 1 and 2.*  
Client: Samsø Energikontor, Hans Bjerregaard Consulting and Danish Energy Agency.
- 1997-98 *A survey of R&D research groups working on energy efficiency within industrial processes in Denmark.*  
Client: Danish Energy Agency.
- 1997-00 *Leigh facade and floor structure in renovation of apartment building Sdr. Boulevard 18-20, Copenhagen. Test of new industrialized concept.*  
Client: Danish Ministry of Housing and Löwenmark F.R.I.
- 1997-98 *Approved consultant by the Danish Agency of Trade and Industry for assistance is starting new business. More than 150 clients.*  
Client: Danish Agency of Trade and Industry.
- 1997 *Evaluation of the program: Process and Product Development in the Building Industry (40 mil. DKK equivalent to 5,4 MECU).*  
Client: Danish Agency of Trade and Industry.
- 1997-00 *Test Program and Project coordination of the Wave Dragon, an Offshore Wave Energy Converter. EU Exploratory Award, Danish Energy Agency and EU Joule Craft. Total project: 1.2 MECU. Support received: 0.7 MECU.*  
Client: Löwenmark F.R.I, Danish Energy Agency and EU.
- 1996-01 *Feasibility study, Environmental Impact Assessment and the establishment of the foundation for Middelgrunden off shore Wind Farm situated outside Copenhagen. Power 40 MW. Total project: 48 MEUR. Project manager.*  
Client: SEAS, Copenhagen Energy, Københavns Miljø- og Energi Kontor, Danish Energy Agency and Den Grønne Fond (EPA).
- 1996-97 *Analyze of the EU strategy concerned with industrial application of advanced energy technology. The EU project: ATLAS.*  
Client: CIRCA Group Europe Limited, Dublin, Ireland.
- 1996 *Evaluation of the JOULE and THERMIE Program, 5 year assessment. Projects for more than 2000 MECU.*  
Client: EU.
- 1996 *Establishment of Lynetten Wind Farm, situated at the Copenhagen Harbour. Power 3 MW. Representative of the owner.*  
Client: Lynetten Vindkraft I/S.
- 1995-96 *Barriers by Export of Biomass Technology.*  
Client: Danish Energy Agency.
- 1995-96 *Utilization of Biomass for Production of Heat and Electricity. A survey of the demand for research and development in the field of combustion and gasification.*  
Client: Danish Energy Agency, in cooperation with Utilities, Ministry of Agriculture and Environment Protection Agency.
- 1995 *Strategy for: Risø National Laboratory, Department of Combustion.*  
Client: Board of Directors, Risø National Laboratory.
- 1995 *Evaluation of JOULE 3 project proposals.*  
Client: EU.

- 1995 *Evaluation of 10 years of R&D projects within the field of energy saving in building technology including solar heating. Total amount of projects: 243 (149 mil. DKK equivalent to 21 MECU).*  
Client: Danish Energy Agency.

### References from previous occupation.

**dk-TEKNIK** (A consultancy within Energy and Environment Technology, staff 140, occupation: general manager):

- 1992-94 Member of the steering committee for the project: Analyze of the structure and possibilities for the trade and industry in the 3 Baltic countries. Establishment of cooperation dealing with energy saving in Lithuania.  
Client: Danish Technological Institute/ Danish Ministry of Foreign Affairs.
- 1991-92 Project manager World Energy Council: Experience of the Nordic Countries in tackling the Environmental Impact of Energy Supply and Use.  
Client: World Energy Council, London and Danish Utilities.
- 1990-94 Establishment of 5 demonstration plants utilizing biomass in Hungary.  
Client: EC, Danish Ministry of Environment and Hungarian Ministry of Agriculture and Ministry of Energy and Industry.
- 1990 Member of the management board dealing with the merging of 3 R&D institutes working with fire protection and fire technology.  
Client: Danish Agency of Trade and Industry.

**Rockwool International A/S** (Insulation products, staff in R&D more than 150, occupation: Vice President R&D):

- 1982-86 Diversification of technical marketing (i.e. establishment of local activities) in Germany, Netherlands, Belgium, France, UK and Norway.
- 1982-86 Project management of several international R&D projects.

**Danish Technological Institute** (R&D consultancy, staff 75 in the Energy Department, occupation: Department Director).

- 1980- 82 Establishment of the department: Information on Renewable Energy Sources including test station for heat pump and solar energy.  
Client: Danish Energy Agency.

**Superfos Building Division** including Mataki AB, Sweden (Insulation production, roofing products and contracting, staff more than 50 in technical service and R&D, occupation: Associated Director):

- 1976-80 Project management of several international R&D projects (Denmark, Sweden, Italy, Belgium and France).
- 1978-80 Manager of roofing department.
- 1979-80 Establishment and management of new division dealing with production and marketing of building component.

**FLS Industries** (Cement plants, cement and concrete production, staff 45 in R&D in Aalborg Portland, occupation: Vice President R&D):

- 1973-76 Project management of several international R&D projects (Denmark and US).

**Technical University of Denmark** (Structural Research Laboratory, occupation: Associated Professor):

- 1967-73 Project management of several international R&D projects (Denmark, UK, Germany, Portugal and Poland).

**Selected Assigned Tasks and Publications:**

- 1986- External examiner and member of the board of appeal, Copenhagen School of Economics & Business Administration, Institute of International Economics and Management
- 1987-95 Chairman of the Ministry of Energy's Board concerning R & D within production and distribution of heat and electricity
- 1988- Member of the Danish Energy Society
- 1990-94 Secretary General, Danish National Committee, World Energy Council
- 2000- Member of the Board, Danish Wind Turbine Owners Association
- 2002- Member WEC Renewable Energy Committee

- H. C. Sørensen (editor): *Experience of the Nordic Countries in Tackling the Environmental Impacts of Energy Supply and Use*, WEC Commission: Energy for Tomorrow's World, June 1992.
- H. C. Sørensen: *Utilization of Biomass for Production of Heat and Electricity in Denmark with Focus on the Demand for R&D*, Proceedings from BIOENERGY '96, The Seventh National Bioenergy Conference, Nashville, USA, page 582-589, 1996.
- H. C. Sørensen et al: *Five Year Assessment of the Non-Nuclear Energy Programmes (JOULE-THERMIE)*, European Commission DG XII, December 1996, 66 pp.
- H. C. Sørensen, Jens H. Larsen: *The Off Shore Wind Farm "Middelgrunden". Feasibility Study*, Copenhagen Energy- & Environment Office (KMEK), October 1997, 73 pp. and 6 enclosures (in Danish).
- H. C. Sørensen et al.: *Low Pressure Hydro Turbines and Control Equipment for Wave Energy Converters (Wave Dragon)*, EU Research Feasibility Study, 1998, 31 pp.
- H. C. Sørensen et al.: *Middelgrunden 40 MW Off-Shore Wind Farm, A prestudy for the Danish Off-Shore 750 MW Wind Program*. Proceedings from the ISOPE-2000 conference, Seattle, page 484-491, 2000.
- H. C. Sørensen et al.: *The Wave Dragon – Now Ready for Test in Real Sea* - Proceedings from the Fourth European Wave Energy Conference, Aalborg, page G2, 2000.
- H. C. Sørensen et al.: *Feasibility of the Wave Dragon*, Internal Report, 2000, 43 pp.
- H. C. Sørensen, M. Eskesen: *Middelgrunden. Diary of an offshore wind farm. April, June, August and December*, Renewable Energy World, 2000/2001.
- H. C. Sørensen, M. Eskesen: *Middelgrunden. The Beauty in the Wind*. Copenhagen, 60 pp. 2001.
- H. C. Sørensen et al.: *Experience from the Establishment of Middelgrunden 40 MW Offshore Wind Farm*. Proceedings from the 2001 European Wind Energy Conference, Copenhagen, 4 pp, 2001.
- H. C. Sørensen, R. Hansen: *Low Pressure Hydro Turbines and Control Equipment for Wave Energy Converters (Wave Dragon)*, Final Publishable Report, 2001, 21 pp.
- H. C. Sørensen et al.: *Experience with and Strategies for Public Involvement in Offshore Wind Projects*. Proceedings from the Offshore Wind Energy EWEA Special Topic Conference Conference, December 2001, Brussels, 4 pp, 2001.
- H. C. Sørensen et al.: *Offshore Wind Energy, Ready to Power a Sustainable Europe*, Final report from the EU Concerted Action Offshore Wind in Europe, Delft University, 2001.
- H. C. Sørensen et al.: *Wave Energy Utilization in Europe, Current Status and perspectives*, CRES on behalf of the EU, 32 pp, 2003 and Renewable and Sustainable Energy Reviews V6, 2002, pp. 405-431
- H. C. Sørensen et al.: *The Middelgrunden Offshore Wind farm, A Popular Initiative*, CEEEO, 28 pp., Copenhagen, 2003
- H. C. Sørensen et al.: *Experience with and strategies for public involvement in offshore wind projects*, Int. Journal of Environment and Sustainable Development, V.1, No.4, 2002, pp 327-336
- H. C. Sørensen et al.: *Offshore windpower: a major new source of energy for Europe*, Int. Journal of Environment and Sustainable Development, V.1, No.4, 2002, pp 327-336
- H. C. Sørensen et al.: *Experiences from the approval process of the Wave Dragon project*, Proceedings from the 5th European Wave Energy Conference, Cork, Ireland, September 2003
- H. C. Sørensen et al: *Development of Wave Dragon from scale 1:50 to prototype*, Proceedings from the 5th European Wave Energy Conference, Cork, Ireland September 2003