

Jorgen Boldt References

Last update: 26 October 2012

Theme: Renewable energy – developed countries

Overview

Regions of experience: European Union, Nordic Countries, OECD Countries

Countries of experience: Canada, Denmark, Poland, Russia

Employments

Danish Energy Agency (DEA), Ministry of Environment and Energy	
Location	Denmark
Period	November 1991 – January 1996
Employer	Danish Energy Agency (now Danish Energy Authority), Ministry of Environment and Energy
Position	Head of Bio-energy Section, Renewable Energy Division
Description	The section, manned by five academics, was the executive and administrative body of the Action Programme for Bioenergy in Denmark, including a development programme of EUR 6-8 million per year and a demonstration programme of EUR 7 million per year. The section was active in several international projects and programmes. DEA was the energy wing of the ministry, preparing and executing political decisions.

Danish Energy Agency (DEA), Ministry of Energy	
Location	Denmark
Period	December 1986 – January 1990
Employer	Danish Energy Agency (now Danish Energy Authority)
Position	Head of the Unit for Combined Heat and Power Production
Description	Responsible for the planning, as well as the economical and technical evaluations within a national programme to install approx. 100 small-scale power plants based on biomasse and natural gas. Also responsible for the legal approval of each new plant.

Selected projects

Regional integrated energy mapping and analysis	
Location	Vancouver Island, Canada
Period	May – October 2011
Client	Ea Energy Analyses, commissioned by the Cowichan Valley Regional District (CVRD)
Position	Energy planning and energy technology expert
Description	The objective is to complete a series of thematic GIS maps and associated databases of potential renewable energy resources and energy consumption in the CVRD (77,000 inhabitants). This shall lead to an analysis of opportunity costs and issues related to regional energy resilience.

National plan to dismiss fossil fuels	
Location	Copenhagen, Denmark
Period	January – September 2010
Client	Danish Commission on Climate Change Policy (www.klimakommissionen.dk)
Position	Internal consultant in the Secretariat (5 manmonths)
Description	It is the Government's vision that Denmark in the future shall be completely independent of the use of fossil fuels. For this reason, the Government appointed a Commission on Climate Change Policy in March 2008. The Commission presented its findings in September 2010.

EurObserver	
Location	Copenhagen
Period	June 2010 to present
Client	Observ'ER (Paris), commissioned by the European Commission, 'Intelligent Energy – Europe' programme
Position	Renewable energy expert
Description	This European Commission funded project (www.euroobserver.org) is monitoring energy data (capacities and energy production), socio-economic data (companies' turnover and employment) and policies (incentive schemes etc.) for all renewable energy sources and all 27 EU Member States for the purpose of informing EU energy policy development. Boldt manages information gathering and dissemination for Denmark, Finland and Sweden.

Advanced waste-to-energy technologies	
Location	Denmark
Period	January 2009 – May 2010
Client	Vestforbrænding I/S (the largest waste management company in Denmark)
Position	Technical Expert on biogas (anaerobic digestion) and thermal gasification (6 manmonths).
Description	The client has decided to establish a new large waste treatment plant, which shall include the most environmentally benign and feasible technologies in an integrated 'environmental park'. This may include anaerobic digestion of wet waste fractions and thermal gasification (or pyrolysis) of dry fractions for combined heat and power production and production of biofuels for vehicles. The current project is a pre-decision study, prior to detailed engineering.

Biotechnology in biogas plants	
Location	Denmark
Period	January – December 2008
Client	Pöyry, Copenhagen; Commissioned by the Danish Environmental Protection Agency
Position	Technical expert (3 manmonths)
Description	Global competitor analysis of companies, institutions, organisations and networks active in using industrial biotechnology in producing biogas from animal manure. The study (in English, but confidential) analysed, in close cooperation with key Danish stakeholders, all essential markets and competitors from the point-of-view of Danish industries.

Hydropower project development in Russia	
Location	Irkutsk Oblast, Siberia
Period	January – October 2008
Client	World Bank, Carbon Finance Unit
Position	Short Term Consultant (0.6 manmonth)

Description	Quality improvement of a locally developed Project Design Document (Joint Implementation under the Kyoto Protocol) for the rehabilitation of Bratsk Hydropower Plant (4500 MW).
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Forecasting prices on biomass resources for energy use	
Location	Denmark
Period	October 2007 – January 2008 (1 st edition), November 2008 – January 2009 (2 nd edition) and November 2010 – February 2011 (3 rd edition)
Client	Danish Energy Agency
Position	Project manager (6 manmonths)
Description	Forecasting prices of dry biomass resources for major consumer segments for a 20-year period, through literature studies and interviews with key Danish market players supplying and using biomass for energy. The forecast are available in Danish only.

The expanding bioenergy market in the Nordic countries - possibilities and consequences	
Location	Nordic countries
Period	August 2007 – April 2008
Client	ECON Analysis, commissioned by the Nordic Energy Research Council
Position	Energy Technology Expert (0.5 manmonth)
Description	Boldt's task was to describe relevant technology options and development perspectives

Renewable energy costs and benefits to society	
Location	OECD Countries
Period	January 2007 – October 2007
Client	EA Energy Analyses Ltd, commissioned by the International Energy Agency
Position	Energy Technology Expert (3 manmonths)
Description	Costs and benefits of renewable energy compared to traditional energy sources, including costs of externalities. A web-based interactive calculation tool and energy technology catalogue. A project under the International Energy Agency's Implementing Agreement for Renewable Energy Technology Deployment (www.recabs.org). Boldt's task was to collect and collate all relevant data, describe the technologies and provide guidance to a sub-contractor designing the website.

Research and development in energy from biomass	
Location	Denmark
Period	September 2004 – ongoing
Client	Danish Energy Authority
Position	Expert evaluator
Description	Evaluation of bioenergy proposals submitted to the Danish Energy Research & Development Programme in respond to annual or semi-annual calls.

Intelligent Energy – Europe	
Location	European Union (meetings in Belgium)
Period	March 2006 – February 2007
Client	European Commission, DG Transport and Energy, Intelligent Energy Executive Agency
Position	Expert evaluator
Description	Expert evaluator of project proposals submitted to the programme "Intelligent Energy – Europe" (IEE), the sub-programmes ALTENER (renewable energy), SAVE (energy efficiency) and COOPENER (promotion of renewable energy sources and energy efficiency in the developing countries). Evaluated primarily biomass to energy projects.

Action plan for international R&D cooperation	
Location	Denmark
Period	September 2005 – February 2006
Client	Danish Energy Authority
Position	Project manager
Description	Action plan for Denmark's international cooperation within research, development and demonstration of energy technologies.

Strategic analyses	
Location	Denmark
Period	June – September 2005
Client	Danish Energy Authority
Position	Project Manager
Description	Cross-cutting analysis of eight existing strategies for research, development and demonstration of energy technologies as input to an overall national strategy for innovation and growth in the energy sector, developed by the Advisory Committee on Energy Research (ACER). ACER advises the Danish Energy Authority and Energinet.dk (the electricity system operator) in implementing their energy R&D&D programmes.

RD&D applications in clean generation of electricity and heat	
Location	Denmark
Period	2000 – 2006
Client	Elkraft System (until 2004); then Energinet.dk
Position	Expert adviser
Description	Evaluation of RD&D applications in accordance with Public Service Obligations on clean generation of electricity and heat. Focus: All renewables except wind energy. In 2005 Elkraft System was made part of Energinet.dk (the national electricity system operator).

National strategy for renewable energy	
Location	Denmark
Period	February 2000 – August 2000
Client	Danish Energy Authority, as employee of Ramboll Denmark.
Position	Project Manager (1.5 manmonths)
Description	A 3-year strategy for the Danish Committee for Clean Generation of Electricity and Heat. The Committee advised the Danish Energy Agency in its RD&D support programmes on renewable energy, primarily biomass energy. The objective of the project was to identify the barriers for further development of renewable energy, and in that framework to suggest the most appropriate RD&D

Renewable energy in a market economy	
Location	Denmark
Period	June 1999 – January 2000
Client	Danish Energy Authority, Ministry of Environment and Energy, as employee of Ramboll Denmark
Position	Project Manager (5 manmonths)
Description	Electricity generating renewable energy demonstration projects were financially evaluated and their competitiveness in a market-based electricity system with green certificates was assessed.

Wood residues for district heating	
Location	Poland
Period	February – June 1999
Client	Danish Ministry of Environment and Energy
Position	Project manager
Description	Sustainable production and use of wood residues for energy purposes in the municipality of Wejherowo, Gdansk region. Feasibility analysis.

The 9'th European Bioenergy Conference and 1'st European Energy from Biomass Technology Exhibition	
Location	European Union
Period	1994 – 1996
Client	European Commission and Danish Energy Authority (as employee)
Position	Chairman of Local Organizing Committee (until March 1996)
Description	The conference and exhibition took place in Copenhagen, June 1996.

National Committee on Biofuels	
Location	Denmark
Period	1994 – 1996
Client	Danish Energy Agency (employee)
Position	Chairman of inter-ministerial committee
Description	The Committee developed a national action plan for biofuels.

The Bioenergy Agreement of the International Energy Agency	
Location	OECD Countries
Period	1993 – 1996
Client	Danish Energy Authority (as employee)
Position	Danish representative in various working and steering groups

Renewable energy strategies and action plans for the Danish government	
Location	Denmark
Period	1991 – 2000
Client	Danish Energy Agency, Ministry of Energy
Position	Project Manager (three strategies as employee of the Danish Energy Agency, two as employee of Ramboll Denmark)
Description	Strategies developed to guide in its financial support programmes for RD&D projects in renewable energy. One strategy and action plan on all renewable energy sources and four bioenergy strategies.

Municipal energy planning	
Location	Poland. Gliwice, Katowice region
Period	1990-1991
Client	Danish Ministry of Environment and Energy, as employee of Ramboll Denmark.
Position	Project manager
Description	Sustainable production and use of wood residues for district heating in the municipality of Wejherowo, Gdansk region. Feasibility analysis.