

Jorgen Boldt References

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Theme: Climate change

Overview

1. Development of Joint Implementation (JI) and Clean Development Mechanism (CDM) projects under the United Nations Framework Convention for Climate Change (the Kyoto Protocol). The full project cycle of the JI/CDM component of a project:
 - o Identification and screening of most suitable projects at national level.
 - o Evaluation of project proposals.
 - o Pre-feasibility studies.
 - o Preparing Project Idea Notes.
 - o Preparing Project Design Documents. Monitoring greenhouse gas emissions is fundamental to CDM and JI projects, and a detailed monitoring methodology and plan is therefore a cornerstone of a Project Design Document.
 - o Developing new methodologies.
 - o Drafting Letters of Intent, Letters of Endorsement, and Emission Reduction Purchase Agreements.
 - o Training in JI/CDM procedures and modalities.
 - o Management of the overall project development.

Technologies: Biogas from animal manure; district heating (rehabilitation); energy efficiency in industry (fertilizer and rubber); fertilizer industry (laughing gas); associated gas flaring; hydropower; landfill gas; natural gas distribution (new systems and rehabilitation); power plants (rehabilitation of existing plants and building new ones).

2. Monitoring and reporting greenhouse gases at national level.
3. Local planning of climate change activities.

Countries of experience: Armenia, Azerbaijan, Bulgaria, Denmark, Georgia, India, Kazakhstan, Kyrgyzstan, Russia, South Africa and Uzbekistan.

Selected projects

Technology Needs Assessments methodology (climate technologies)	
Location	Roskilde, Denmark
Period	July – December 2010
Client	UNEP Risoe Centre
Position	Lead author (1.5 manmonths) of a multi-disciplinary team of 4 experts
Description	The Global Technology Needs Assessment (TNA) project is designed to support 35 to 45 countries to carry out improved TNAs within the framework of the UNFCCC (http://tech-action.org/). This assignment has produced a guidebook on ‘Overcoming Barriers to the Transfer and Diffusion of Climate Technologies’ (first draft December 2010, final version Summer 2011), in English. The objective of the guidebook is to assist the countries to identify market barriers hindering the transfer and diffusion of climate change mitigation and adaptation technologies and develop enabling frameworks to overcome the barriers and facilitate the transfer, adoption and diffusion of selected technologies in the participant countries. Boldt was lead author of all chapters.

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 shall be completely independent of the use of fossil fuels by 2050. For this reason, the Government appointed a Commission on Climate Change Policy in 2008. The Commission presented its findings in September 2010. Boldt's primary task was to draft the background documentary report covering renewable energy resource potentials, energy savings potentials and required incentive mechanisms (in Danish).

Climate Plan Copenhagen 2025	
Location	Copenhagen, Denmark
Period	October 2008 – January 2009
Client	Ea Energy Analysis (Denmark), commissioned by the Municipality of Copenhagen
Position	Renewable energy expert
Description	Development of a comprehensive action plan, including the ranking of concrete measures for climate change mitigation to be adopted by the City Council. Boldt was responsible for the project component (in Danish) on energy supply options, such as conversion of existing power plants to biomass, improved efficiencies of waste incineration plants, off-shore wind farms, geothermal heat, solar district heating, lower district heating temperatures and district cooling.

Monitoring and reporting greenhouse gasses and other air emissions in India	
Location	New Delhi and European Union
Period	January – June 2008
Client	HCL Consultants (Greece), commissioned by the European Commission, Directorate for External Relations
Position	Team Leader (2 manmonths). Team of two EU experts, the other an atmospheric computer modelling expert.
Description	This European Commission funded project aimed at enhancing Indian high level officials' appreciation of the potential win-win benefits from integrating climate change policies and air quality/health policies. Through dialogues with the high level officials, other key Indian stakeholders, and European centres of excellence, the project determined the Indian capacities to monitor atmospheric pollution from large industrial and power generation sources, and designed pilot projects to strengthen monitoring and reporting capacity for atmospheric emissions from those sectors in India and to demonstrate the win-win potentials.

JI hydropower project development in Russia	
Location	Irkutsk Oblast, Siberia
Period	January 2008 – July 2009
Client	World Bank, Carbon Finance Unit
Position	Short Term Consultant (0.6 manmonth)
Description	Quality assurance (desk) of a locally developed Project Design Document for the rehabilitation of Bratsk Hydropower Plant (4500 MW), in English. The assessment resulted in the Client abandoning the project.

CDM projects development in Uzbekistan	
Location	Uzbekistan
Host	Ministry of Economy
Period	August 2007 – December 2007
Client	Econ analysis (Norway), commissioned by the World Bank (Carbon Finance Unit)
Position	Technical Expert in a multi-disciplinary team of World Bank experts.
Description	In charge (assisted by a local consultant) of developing Project Design Documents (PDD) for two CDM projects: 370 MW gas turbine combined cycle power plant in Tashkent, and utilization of associated gas from four oil fields in Shurtan, Qarshi (in English). Interviews of high level officials and other stakeholders.

CDM projects identification in Kyrgyzstan and Uzbekistan	
Location	Kyrgyzstan and Uzbekistan
Host	Ministry of Industry, Trade and Tourism; Ministry of Economy
Period	January 2007 – June 2007
Client	Econ analysis (Norway), commissioned by the World Bank (Carbon Finance Unit)
Position	Technical Expert in a multi-disciplinary team of World Bank experts.
Description	In charge (assisted by local consultants) of the identification and preliminary development of CDM projects in order to use carbon finance to promote sustainable development. Developed three Project Identification Notes (in English) for each country. Interviews of high level officials and other stakeholders.

National CDM strategy	
Location	Denmark
Period	December 2005 – June 2006
Client	Econ Analysis (Denmark), commissioned by Ministry of Foreign Affairs
Position	Deputy Project Manager
Description	Development of strategy, action plan, information programme, and manuals and guidelines on the Clean Development Mechanism (CDM) of the Kyoto Protocol.

Development of potential CDM projects in Armenia and Georgia	
Location	Armenia and Georgia
Period	December 2004 – June 2005
Client	Danish Environmental Protection Agency, as employee of Ramboll Denmark
Position	Project Manager (2 manmonths)
Description	The objectives of the project were to: 1) Identify and screen potential projects for implementation as CDM projects; 2) Prepare Project Design Documents, Baseline Studies, and Monitoring and Verification Plans for two selected projects.

Development of potential CDM projects in Azerbaijan, Uzbekistan and Kyrgyzstan	
Location	Azerbaijan, Uzbekistan and Kyrgyzstan
Host	The Designated National Authorities of the three countries
Period	December 2004 – June 2005
Client	Danish Environmental Protection Agency, as employee of Ramboll Denmark
Position	Project Manager
Description	The objectives of the project were to: 1) Identify and screen potential projects for implementation as CDM projects; 2) Prepare Project Design Documents, Baseline Studies, and Monitoring and Verification Plans for two selected projects. Interviews of high level officials and other stakeholders.

Development of JI projects in Bulgaria	
Location	Bulgaria
Period	September 2004 – June 2005
Client	Danish Environmental Protection Agency, as employee of Ramboll Denmark
Position	Project Manager
Description	The objectives of the project were to: i) Develop projects to be implemented as JI projects in Bulgaria; ii) Prepare Project Design Documents (including Baseline Studies and Monitoring and Verification Plans) for two selected projects in Bulgaria (hydropower and landfill gas); iii) Provide support to DEPA in preparing and negotiating Emission Reduction Purchase Agreements.

CDM projects in Kazakhstan	
Location	Kazakhstan
Host	Ministry of Environmental Protection
Period	January 2004 – June 2005
Client	Danish Environmental Protection Agency, as employee of Ramboll Denmark
Position	Team Leader (6 manmonths); a multi-disciplinary team of three international experts
Description	The objective was to identify projects' potential for implementation as CDM projects, and finalisation of Project Design Documents (PDD), Baseline Studies (BS) and Monitoring Plan (MP) for two selected projects in Kazakhstan (all in English). Interviews of high level officials and other stakeholders during 5 missions.

Productive use of landfill gas, South Africa	
Location	Johannesburg, South Africa
Period	May 2004 – April 2005
Client	Royal Danish Embassy, Pretoria, as employee of Ramboll Denmark
Position	Project manager (4 manmonths)
Description	The overall objective was the successful and timely development of a CDM project up to the point of financing. This included: - o Pump test to accurately determine the amount and characteristics of landfill gas from two landfills. - o Technical, financial, economic and environmental assessment of end-uses of the landfill gas. - o Undertaking the necessary steps develop the carbon potential of both landfill sites. - o To undertake an cost-benefit analysis and to develop detailed engineering and financing plans, and possibly the development of a joint venture business plan. - o To initiate, to provide the necessary guidance and coordinate the level of environmental impact assessment (EIA) required for implementing the CDM project.