



Curriculum Vitae

John Magne Skjelvik

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PROFILE

John Skjelvik has more than 20 years of experience from various assignments and projects covering environmental and energy policy and -economics and industrial policy analysis. His work has focused on analysis of various policy measures to curb emissions to air and water. Furthermore, valuation of environmental costs caused by pollution of air and water, and cost-benefit analysis of measures to improve environmental quality has been important parts of his assignments. He has also done several monitoring & evaluation studies of existing policy instruments and institutional arrangements, and provided practical advice on how to improve policy design and implementation. This has comprised processes in close cooperation with authorities, industries and other stakeholders, often in larger teams. He is also a very experienced project manager.

Another important part of his work has been analysis of climate change policy instruments. This has covered design and implementation of emissions trading and carbon taxes in several sectors both at a national and an international level, and use of the international flexible mechanisms Joint Implementation and Clean Development Mechanism and analysis of local benefits from climate change actions.

Through his whole career he has worked with industry and energy economics, policy planning, development and evaluation of industry and energy policy instruments. This has been overall policy analysis as well as analysis of instruments directed towards special sectors, energy carriers and geographical areas.

Major client include the World Bank and regional development banks, Nordic donor organisations, OECD, Nordic ministries and sub-bodies and NGOs. He has work experience from the Nordic countries, Eastern Europe, East Asia (particularly China), Latin America and Africa.

ACADEMIC QUALIFICATIONS

- 1982 M. Sc. (Cand. oecon. Degree), Department of Economics, University of Oslo.
1986 Course in investment and financing, Norwegian School of Management.
1985 Courses in accounting and tax law, Norwegian School of Management.

LANGUAGES

- Norwegian Mother tongue
English Fluent
German Some
French Poor

WORK EXPERIENCE

- 2010 Partner, Vista Analysis AS
2007- 2009 Principal, Pöyry AS (previous ECON Analysis AS)
2001-2007 Partner, ECON Analysis AS
1993- Senior Economist, ECON Analysis AS
1985-93 Senior Executive Officer, Adviser from 1990, Ministry of Industry, Oslo.
Main fields of work: Environmental, energy and industry policy analysis.
1983-85 Executive officer, Ministry for Labour and Local Government, Oslo. Main field of work: Implementation of measures to develop the industry in rural areas.

PROJECT WORK EXPERIENCE

- Ongoing **Economic and administrative costs of phasing out some hazardous substances.** Project manager. Norwegian Ministry of Environment. Estimating costs and main consequences of various scenarios for reducing use of hazardous substances, pesticides, cleaning up contaminated sites etc. Input to Miljøgiftsutvalget.
- Ongoing **Economic consequences of better access to goods, services and information for disabled people.** Norwegian Ministry of Children, Equality and Social Inclusion. Estimating costs of changes in the Discrimination Act. In cooperation with Proba Samfunnsanalyse.
- Ongoing **Provincial five-year environmental plans.** Norwegian embassy Beijing/Ministry of Foreign Affairs. Together with Chinese Academy of Environmental Planning we analyse and advise on the effectiveness of current provincial five-year environmental plans.
- 2009 **KLIMAKUR – actions to reduce GHG emissions.** Project manager. Norwegian Pollution Control Authority. Helps the Government KLIMAKUR group analyzing cost efficient policy measures to fulfill the Norwegian goal for emission reductions in 2020 and 2030.

- 2009 **Impacts of renewable energy investments.** Project manager. Energy Norway. A study of the social, environmental and economical impacts of investments in renewable electricity production, focusing on developing countries.
- 2009 **Subsidies to low emission vehicles.** Project manager. Norwegian Petroleum Institute. Calculates the various subsidies for purchase and use of electric and hybrid vehicles.
- 2009 **Cost benefit analysis of reducing emissions to water.** Project manager. Norwegian Petroleum Directorate. Considers cost and benefits of the vision of zero emissions from petroleum platforms in the North Sea.
- 2008-2009 **Attracting private sector investment to Greenfield hydropower facilities in Georgia.** Norwegian Ministry of Foreign Affairs. Responsible for the assessment of the environmental impacts of potential new facilities.
- 2008-2009 **The use of economic instruments in Nordic environmental policy.** Nordic Council of Ministers. Project manager. Presents an overview of the use of economic instruments in the environmental policies in the Nordic countries during 2006-2009 and case studies of areas where more than one instrument (of any kind) is used to reach an environmental target.
- 2008-2009 **Industrial use of natural gas in Norway.** The Norwegian Research Council. Project manager. Assessed the potential for increased, profitable processing of natural gas in Norway in various industries.
- 2007-2009 **Reducing mercury pollution in China.** Project Manager. Chinese State Environmental Protection Agency (SEPA) and Guizhou Environmental Protection Bureau. Assessment of mercury emission sources and their local, regional and global impacts, and cost benefit analysis of abatement options.
- 2008 **Barriers for production of 2. generation biofuels in Norway.** Norwegian Pollution Control Authority. Assesses barriers and potential policy measures to promote production.
- 2008 **ICT and climate change.** Norwegian Ministry of Government Administration and Reform. Project Manager. Considers various ways new information and communication technologies (ICT) could contribute to reducing greenhouse gas emissions, and presents potential emissions reduction and cost saving from increased use of videoconferences in governmental bodies.
- 2008 **Low emission vehicles towards 2020.** Norwegian Pollution Control Authority. Project manager. An assessment of the expected development of more environmental friendly vehicle technologies till 2020 and beyond.
- 2008 **Cost benefit analysis of high speed trains in Norway.** Norwegian Ministry of Transport and Communications. An independent quality assurance of the cost benefit analysis that have been carried out by the German VWI group, and compares this with current Norwegian methodology for such cost benefit analysis.
- 2008 **Climate effects of high speed trains in Norway.** Project manager. Norwegian Ministry of Transport and Communications. Assesses the impacts on greenhouse gas emissions from investing in high speed train lines between Oslo - Trondheim, and Oslo – Bergen.
- 2007-2008 **Hubei transport SEA.** World Bank. Project manager. Advises Hubei Provincial Communication Department, China, on how to carry of a Strategic Environmental Assessment for a long term highway and inland waterway plan.

- 2007-2008 **Evaluation of the Norwegian tax system for waste oil.** Norwegian State Pollution Control Authority. Project manager. Evaluates the current tax system on lubricating oil and refund for delivery of waste oil for treatment.
- 2007-2008 **Environmental degradation and conflict – can environmental initiatives create peace?** Norwegian Ministry of Foreign Affairs. Project manager. Explore the link between environmental degradation and conflict. Case studies in Burkina Faso, China, Nepal and Sudan.
- 2007 **Risk assessment of PeBDE.** Norwegian Pollution Control Authority. Project manager. Established a risk assessment scheme of Pentabromodiphenyl ether as part of the process to have PeBDE listed as a persistent organic pollutant (POP) under Annex A of the Stockholm Convention.
- 2007 **Evaluation of the Regional Air Pollution in Developing Countries Programme (RAPIDC).** Sida. Project manager. An assessment of the extent to which the objectives and results of RAPIDC in Southern Asia and Africa have been achieved in an effective and efficient manner, and provide recommendations and lessons learned from programme implementation.
- 2007 **Evaluation of Geological Survey of Norway.** Norwegian Ministry of Industry and Trade. Evaluation of the institution's performance and priorities, the benefits generated to society and the future needs and demand for its services.
- 2007 **CEA Senegal.** Project Manager. The World Bank. Provide the WB with inputs on urban pollution issues to their work on a Country Environmental Assessment of the country.
- 2007 **Biofuels – status and prospects.** Norwegian Ministry of Foreign Affairs. Project manager. Overview of international agricultural, climate, local environment and trade issues related to production of biofuels.
- 2006-2007 **Income, Environment and Health in Rural Egypt.** Project Manager. The World Bank. A cost benefit analysis of actions to reduce land degradation in Damietta and improve water supply, sanitation and personal hygiene practices in Qena.
- 2006 **Natural hazards and structural economic changes.** Norwegian Agricultural Authority. Analyses how the general increase in wealth and structural changes in the Norwegian economy have changed the vulnerability for natural hazards, and how this could be expected to change in the future.
- 2006 **Design of a Feed-in system for renewable electricity.** The Norwegian Ministry of Petroleum and Energy. Analyses how a public support system to promote renewable electricity capacity in Norway could be designed.
- 2006 **Environmental policy towards small and medium enterprises (SMEs) in the light of EU accession.** Project Manager. The World Bank and Government of Turkey. Assesses challenges for Turkey's SME environmental policy and proposes ways forward, including how to facilitate cleaner production, financing environmental investments and improve the government's environmental policy management to comply with EU policy.
- 2006 **Implementation of EU industrial pollution control Directives in Turkey – the case of lignite-fired power plants.** Project manager. The World Bank. Assesses how Turkey could implement the IPPC, LCP and NEC Directives, eventually by using economic instruments. Present potential cost savings from using such instruments.

- 2005-2006 **Investing in fighter planes in Norway – an economic analysis.** *Ministry of Defense and Ministry of Finance Norway.* A so-called KS1 quality assurance process on the decision process on investments in new fighter planes, and a cost-benefit consideration of the investment alternatives.
- 2005-2006 **Ghana Country Environmental Analysis (CEA).** Project Manager. The World Bank. Responsible for urban water, sanitation and waste management.
- 2005-2006 **Urban Air Pollution Control in Peru.** Project Manager. The World Bank. A cost benefit analysis of measures to reduce emissions of particulate matter (PM) from urban transport sources, as an input to the WB Country Environmental Analysis.
- 2005 **The political economy of the Norwegian aviation fuel tax.** Project manager. The OECD. Describes the circumstances surrounding the introduction of the CO2 aviation fuel tax in 1999, the opposition it faced and how this was overcome.
- 2005 **The use of emissions trading in relation to other means of reducing CO2 emission – A Nordic comparative study.** Nordic Council of Ministers. Analyses how each of the Nordic countries have implemented the EU emissions trading system.
- 2005 **Environmental friendly technology – case studies.** Norwegian State Pollution Control Authority. Discusses what spurs technology development, and presents examples of policy regulations have contributed to technology development.
- 2005 **Financial guarantee for future waste electrical and electronic equipment (WEEE).** Project Manager. Nordic Council of Ministers. Propose a model to cover producers' future liabilities for the proper treatment of WEEE based on current payment of a guarantee according to sales of the product.
- 2005 **Developing Norwegian natural gas distribution.** Project manager. Enova. Presents how efficient ship based distribution chains for Liquefied natural gas (LNG) and Compressed natural gas (CNG) based could be developed to supply various users. In cooperation with Marintek.
- 2005 **Social health costs of accidents and work related illness on the Norwegian continental shelf.** Petroleum Safety Authority Norway. A study to estimate the social health costs of accidents and work related illness on the continental shelf. Excess mortality risk, work day loss and medical health care costs are the most important categories evaluated.
- 2001-2005 **Master Plan Against Air Pollution in Shanxi Province, China.** Shanxi Environmental Protection Bureau. Assistance in developing a cost-efficient plan to reduce air pollution in the Province, including economic evaluation of environmental damages of various parts of the province. Co-operation with the Norwegian Institute for Air Research (NILU) and other institutions.
- 2002-2005 **Technical Guidelines for Environmental Impact Assessments (EIA).** The Chinese State Environmental Protection Administration (SEPA). Assist SEPA in developing new guidelines for EIAs for construction projects, including how to estimate environmental costs of emissions. In cooperation with Renmin University.
- 2003-2004 **IT industry in China and India.** International Finance Corporation (IFC). Assessed drivers of the relative growth performance of the IT industry in China and India to help determine different growth trends for the IT hardware (electronics) manufacturing and IT services in the two countries.

- 2004 **CO2 injection in petroleum reservoirs at the Norwegian Continental Shelf.** Petoro. Analyses the economic viability of CO2 injection at Gullfaks and other oil fields.
- 2004 **How are Norwegian partners in development aid affected by a high price on oil?** The Norwegian Ministry of Foreign Affairs. Analyses impacts of a price on oil of 30 and 50 USD respectively on these countries.
- 2003-2004 **Costs of transporting natural gas to the Norwegian domestic market.** Project manager. The Norwegian Water Resources and Energy Directorate. Analyses the market potential for natural gas in various regions in Norway, and make a societal cost-benefit analysis of distributing gas to some regions.
- 2003 **External costs from transportation.** The Norwegian Ministry of Transportation. Describe and estimate monetary values of air emissions, noise, accidents, wear and tear from the various transport modes in Norway.
- 2003 **Natural gas to Grenland.** Project manager. Vekst i Grenland. A cost-benefit analysis of building a gas pipeline from Kårstø at the Norwegian west coast to the Grenland area in the eastern part of Norway.
- 2003 **Alternative design of the Norwegian electricity tax.** Project manager. The Norwegian District Heating Association. Analyses alternative designs of the electricity tax, their effects in the power market etc.
- 2002-2003 **GHG emissions from international shipping and aviation.** Project manager. Swedish Environmental Protection Agency. Assesses how GHG emissions from international shipping and aviation could eventually be curbed through the use of voluntary agreements, technical emissions standards, carbon taxes, allowance or credits trading.
- 2002 **Cleaner production as CDM investments – Integrated assessment in Taiyuan City, China.** Assesses how six potential CDM projects in Taiyuan may have considerable local health benefits, and how they could be developed and financed as CDM projects. In cooperation with CICERO, University of Oslo and Oslo University College.
- 2002 **Prioritising and financing the rehabilitation of Norwegian water sediments.** Project manager. Confederation of Norwegian Business and Industry and The Federation of Norwegian Process Industries. A preliminary assessment of benefits, costs and financing alternatives for rehabilitation of contaminated water sediments.
- 2001-2003 **Financial mechanisms for natural disaster risk management in Latin America (LAC).** The Inter-American Development Bank. Analyzes the feasibility of new financial instruments for the reduction and transfer of natural disaster risk in LAC, focusing on Chile, Peru and El Salvador.
- 2002 **Joint Implementation – country analysis.** The Swedish Energy Authorities (STEM). Analyses the environment for implementing JJI projects in selected countries in Eastern Europe within the frames of the Kyoto protocol.
- 2001-2002 **Evaluation of the KOSTRAT programme for competence building in the food processing industry.** Norwegian Industrial and Regional Development Fund (SND).
- 2001 **Strategy for promoting JI/CDM projects.** Norwegian Ministry of Foreign Affairs. Project manager. Developed a strategy to promote investments in JI/CDM projects from Norwegian industry

- 2001 **Natural Hazard Mitigation.** Norwegian Agricultural Authority. Assessment of the responsibilities for mitigation actions among central and local government bodies and private stakeholders. Proposes how risk analysis could be used to choose among mitigation measures.
- 2001 **Emission tax on waste incineration.** Norwegian Ministry of Environment. Discusses and propose a tax on emissions.
- 2001 **Treatment of municipal residual waste in Tromsø.** Perpetuum AS. Project manager. A cost benefit consideration of various treatment options.
- 2001 **Environmental Taxes on heating oil and electricity.** Norwegian Petroleum Institute. Project Manager. Assessment of the rationale for current taxes, and proposes rate changes.
- 2000 **Environmental costs from different municipal waste treatment.** Project Manager. Norwegian Ministry of the Environment. Estimates emissions to air and water connected to landfill and incineration of different waste fractions, and estimates environmental costs.
- 2000 **Evaluation of grants for ecological agriculture production.** Norwegian Agricultural Authority. Assess the effects of the grants to farmers producing grain and milk/meat ecologically, and proposes policy changes to increase production and sales of these products.
- 2000 **Climate Change Policy Scenarios.** Norwegian State Pollution Control Authority. Presentation of different greenhouse gas emissions scenarios for Norway, what policy measures that could be implemented to curb emissions and what role the SFT could possibly play in policy shaping.
- 2000 **HiOx – Market and Greenhouse Gas Emission Potential.** Aker Maritime. Assessment of the market potential of the HiOx emissions-free technology in Europe, both as a power generation source and a source for carbon dioxide mitigation.
- 1999-00 **Greenhouse Gas Emissions from Ships.** International Maritime Organization, in co-operation with MARINTEK/ Det Norske Veritas /Carnegie Mellon University. Analyse how GHG emissions reductions could be implemented through different market-based and other approaches.
- 1999 **Baseline Methodology.** Project manager. Norwegian Ministry of the Environment. An overview of the status for the development of different methods and approaches for baseline calculations for the project based flexible mechanisms JI and CDM under the Kyoto Protocol.
- 1999 **Emissions trading and the petroleum industry.** MILJØSOK/NOVATECH. Evaluate the possibilities and potentials of including the offshore petroleum industry in a national system for trading of greenhouse gas emission permits.
- 1999 **The effect of fiscal changes for the oil industry.** Project manager. The Norwegian Oil Industry Association. Analyzing the effects of selected fiscal changes in different petroleum regions in the world.
- 1999 **Evaluation of the KLIMATEK-program.** Project manager. Norwegian Research Council. Evaluation of the research program promoting increased use of new technology to reduce GHG emissions after about 2 years in operation.
- 1999 **Internal emissions permits trading.** Project manager. Norsk Hydro. Developed a PC-based model for simulating company-internal emissions permits trade.

- 1999 **Emission trading in the Nordic electricity market.** Project manager. Nordic Council of Ministers. Analysis of whether and in what way a system for greenhouse gas emission trading can be integrated with the open Nordic electricity market.
- 1998-99 **Creating a market for carbon credits from Norwegian forestry activities.** Project manager. The insurance company Skogbrand. Proposes how a system for creation and trading of carbon credits could be established.
- 1998 **Shipping and climate change policy.** Project manager. Norwegian Shipowner's Association. Analyses how the Norwegian coastal fleet could be included in a Norwegian emissions trading system, and how international shipping could be included in the international GHG reduction regime.
- 1998 **Towards greenhouse gas emissions trading within the Nordic Region.** Project manager. Nordic Council of Ministers. Analyses technical, institutional, and political requirements for GHG trading among the Nordic countries.
- 1998 **Abatement cost for Norwegian greenhouse gas emissions.** Confederation of Norwegian Business and Industry.
- 1997-99 **A climate strategy for Norway.** Project manager. Norsk Hydro and Statoil. Analysis of different designs of domestic and international policy measures. Offering advice and professional opinions on the priorities of the two companies' engagement in relation to climate change.
- 1997 **Taxes on emission permits.** Project manager. Norwegian Pollution Control Authority (SFT). Evaluates the need for implementing emission taxes in the present emission permit system, and proposes how this can be done.
- 1997 **Taxes on products containing environmental hazards.** Project manager. Norwegian Ministry of Environment. Analyses the possibilities of implementing environmental taxes on trichloroethylene, impregnated wood, batteries and fertilizer containing cadmium, anti-fouling products and tetrachloroethylene.
- 1997 **Evaluation of the deposit-refund system for car wrecks.** Project manager. Norwegian Pollution Control Authority (SFT).
- 1996 **Support to the food processing industry.** Norwegian Industrial and Regional Development Fund (SND). Evaluation of the support given to the food processing industry from the Norwegian Industrial and Regional Development Fund.
- 1996 **Optimal policy towards environmental hazards.** Project manager. Norwegian Research Council/MILFOR. Discusses which policy measures one should apply to control environmental hazards. In depth-analysis of trichloroethylene and impregnated wood.
- 1995-96 **Voluntary agreements to reduce emissions.** Project manager. Ministry of Environment/ Federation of Norwegian Process and Manufacturing Industries (PIL). Survey of the systems of voluntary agreements between industry and governments to reduce CO₂-emissions in various countries.
- 1995-96 **The environmental cost of littering.** Project manager. Norwegian Pollution Control Authority (SFT). Different approaches are used to estimate the environmental cost of littering.
- 1995-96 **Contributions to Norwegian industrial development from foreign owned companies.** Asea Brown Boveri. An analysis of the contributions made by foreign owned industrial companies to employment, investment, value added, R&D and technology transfer.
- 1995-96 **Challenges for the mining industry.** Ministry of Industry and Energy.

- 1995 **Biomass as carbon sink.** Project manager. Norwegian Forest Owners Federation Clarification of the role of biomass as carbon sink, especially net growth in forests and temporary storage in buildings and paper products.
- 1995 **Integration of environmental concerns in bilateral aid programs.** Ministry of Foreign Affairs. Evaluation of how the environmental goals in development aid programs have been followed up by NORAD.
- 1995 **Carbon taxes in emission intensive industries.** Project manager. Ministry of Finance. Analysis of the impact of a CO₂ tax on emissions of CO₂, SO₂ and NO_x, and on profitability in high emission and energy intensive industries.
- 1995 **Use of natural gas in the Norwegian transport sector.** Ministry of Transport. Secretary to the working group (Naturgassutvalget).
- 1994 **Valuation of external costs in waste management.** Project manager. Norwegian Pollution Control Authority.
- 1994 **Joint implementation.** Project manager. Nordic Council of Ministers. The concept of joint implementation is explored, and the possibilities of joint implementation projects within the Nordic countries and between the Nordic countries and countries in Eastern Europe are discussed.
- 1993 **Environmental policy measures.** Veritas/Ministry of Environment. Evaluation of environmental policies in the Grenland area, towards the pulp and paper industry, and towards emissions of SO₂, lead, mercury, KFK and waste oil.
- 1993 **GEF ILUMEX project.** Ministry of Foreign Affairs – EED. Contributions to an appraisal study of a Global Environmental Facility (GEF) joint implementation pilot project, which aim to reduce electricity consumption through installation of compact fluorescent lamps (CFLs) in Mexico.