



Curriculum Vitae

John Magne Skjelvik

Master i samfunnsøkonomi

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PROFILE

John Magne Skjelvik has almost 30 years of experience from various assignments and projects covering the following topics:

- Cost benefit analysis of policy instruments, plans and projects.
- Monitoring & evaluations of the performances of existing policy instruments and institutions, including institutional arrangements.
- Advisory services on how to improve policy design and implementation.
- Planning and foresight analysis, including development trends risk assessments and impact analysis of various policy measures, mainly taxes and subsidies.
- Quality assurance of investment projects, including KS1 and KS2 regime for large public projects.

His work has comprised processes in close cooperation with authorities, industries and other stakeholders, often in larger teams. He is also a very experienced project manager.

Main sectors of work include transportation, defense, environmental protection (including climate change policy), energy supply, industry, development assistance, health and social sector, insurance (natural hazards), fisheries, agriculture and forestry.

Major clients 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.

CV John Magne Skjelvik

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.

LANGUAGE

- Norwegian Mother tongue
English Fluent
German Some
French Poor

WORK EXPERIENCE

- 2010 - Partner, Vista Analysis AS
2007 - 09 Principal, Pöry AS (previous ECON Analysis AS)
2001 - 07 Partner, ECON Analysis AS
1993 - 00 Senior Economist, ECON Analysis AS
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 **Evaluation of the Norwegian Biogas pilot support scheme.**
Innovation Norway. Project manager.
Focussing on how the scheme could be further developed to contribute to the development of the biogas market, improved biogas technologies and profitable projects.
- Ongoing **Outdoor recreation, climate and biodiversity benefits from blue-green infrastructure in and around Nordic cities.**
Nordic Council of Ministers. Project manager.
- Ongoing **Valuation methods for environmental damages in Georgia.**
Int. Centre for Hydropower/Government of Georgia
Assists in developing a practical framework for valuation of damages on biodiversity and water/soil contamination from hydropower and other larger projects.
- Ongoing **Alternatives to grid investments.**
Statnett
Considers cost effective supply and demand side interventions as alternatives to investments in new grid capacity.
- 2017 **Evaluation of support to fish transport ("føringstilskuddet") to the fish processing industry.**
Ministry of Trade, Industry and Fisheries. Project manager.
- 2017 **Potentials and limits for introducing emissions-free taxis in Norway.**

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Norwegian Environment Agency

- 2017 **Environmental impacts and potential of the “sharing economy”.**
Nordic Council of Ministers. Project manager.
An overview of the various sharing economy initiatives in the Nordic countries and their potential impacts on emissions of GHG and other harmful substances.
- 2017 **Demand side flexibility – a survey.**
Nordic Energy Research
A survey and analytical discussion of options for demand side flexibility in the Nordic electricity market, as well as barriers and opportunities for demand side flexibility.
- 2017 **Policy instruments to increase demand and supply of bio jetfuel in Norway.**
Avinor
An assessment of potential policy instruments to achieve a goal that 30 percent of jetfuel sales on all Avinor’s airports in 2030 should be biobased. Sub-contractor to Rambøll
- 2016-2017 **Evaluation of county commitment to promote ecological agricultural production.**
Norwegian Agricultural Authority. Project manager
An assessment of goals, experiences and results of the county commitments.
- 2016 **KS1 of grid improvement plans in Southern Rogaland.**
Statnett.
- 2016 **Construction of new InterCity rail lines from Tønsberg to Skien.**
National Rail Administration.
Calculation of passenger demand for the various alternative routes, including assessment of impacts on travelling of various station locations. In cooperation with Norconsult and Asplan Viak.
- 2016 **Public ownership of car ferries?**
The Federation of Norwegian Coastal Shipping. Project manager.
Assessment of consequences of public ownership and letting private companies operate them.
- 2016 **Assessment of a ban on the use of fossil fuels in agricultural buildings etc.**
The Norwegian Directorate for building quality (Dibk). Project manager.
- 2016 **Green competitiveness – Indicators, status, trends, advantages and crossroads.**
The Norwegian Ministry of Climate and environment.
- 2016 **The consequences for industry of an increased NOx tax.**
The NOx fund. Project manager.
- 2016 **Cost benefit analysis of improved IKT systems.**
The Norwegian Directorate of Immigration.
- 2016 **Mining concession in Repparfjord.**
The Sami Parliament.
Assessment of the analysis carried out of the consequences of permitting copper mining.
- 2015-2016 **Impacts of environmentally differentiated road tolls In Oslo and Bergen.**
The Norwegian Public Roads Administration.
- 2015-2016 **Global market prospects for biofuels.**
The Norwegian Ministry of Transport.
- 2013 - 2016 **Planning for Cost-effective Environmental Risk Reduction in China.**

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Norwegian embassy Beijing/Ministry of Foreign Affairs.

Phase II of Provincial five-year environmental plans project, to provide experience and recommendations for the structure of high effective environmental risk prevention system.

2015 **External marginal costs from sea and rail cargo transport.**

Norwegian Ministry of Transport.

Estimated unit costs and uses these estimates on some examples.

2015 **KS1 of grid extension plan to the Haugalandet area.**

Statnett.

2015 **Extension of Grøtøyleden.**

Norwegian Coastal Administration. Project manager.

A cost benefit analysis of actions to improve sailing facilities in the area.

2015 **Merger of the municipalities in Langfjella.**

Consequences of merging Bygland, Bykle, Sirdal, Valle and Vinje municipalities to a Langfjella municipality.

2015 **Evaluation of subsidies to replacement for ill farmers.**

Norwegian Agriculture Agency. Project manager.

In cooperation with Østlandsforskning.

2015 **External marginal costs from some releases to the environment.**

Norwegian Ministry of Finance/Green Tax Commission. Project manager.

Estimated external marginal costs from emissions of NO_x, nitrogen and phosphorus, NMVOC, SO₂, NH₃, noise and littering.

2015 **Cost benefit considerations of deepening of the harbor and sailing facilities in Ålesund.**

Norwegian Coastal Administration. Project manager.

Used the KVIRK model developed by Vista for such investments.

2015 **Replacing the North Cape class of coast guard vessels.**

Norwegian Ministry of Finance/Ministry of Defense. Project manager.

As part of the quality assurance regime (KS1) we analyzed costs and benefits of various replacement alternatives. In cooperation with Holte Consulting.

2015 **Economic assessments of health effects in Colombia and Mexico.**

The World Bank. Project manager.

Provided monetary estimates of health effects from outdoor and indoor air pollution, lead exposure and inadequate water supply, sanitation and hygiene.

2015 **Economic assessment of ambient air pollution in Costa Rica.**

The World Bank. Project manager.

2014-2015 **Developing a KVVU for the "Oslo-hub".**

The Norwegian Public Roads Administration, National Rail Administration and Oslo Municipality.

Developed a "Konseptvalgutredning" for the long term public transport into and through Oslo. In cooperation with Norconsult.

2014-2015 **Conditions for the Norwegian bio-economy.**

Ministry of Trade, Industry and Fisheries.

An analysis of potential bottlenecks for the development of bio-related industries.

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- 2014-2015 **Cost benefit considerations of a new pier/deepening of the harbor in Mehamn and improved sailing facilities into Farsund harbor.**
Norwegian Coastal Administration. Project manager.
Used the KVIRK model developed by Vista for such investments to calculate costs and benefits.
- 2014-2015 **A subsidy scheme for scrapping of ships.**
Ministry of Trade, Industry and Fisheries.
A consideration of potential environmental impacts, incentives for fleet renewal that a subsidy scheme could have. In cooperation with Propel AS.
- 2014 **KS1 of 5 new nursery homes.**
Oslo municipality.
As part of the municipality's quality assurance regime (KS1) we analyzed benefits of the project. In cooperation with Ernst&Young (EY).
- 2014 **Impacts of the Norwegian NOx fund.**
The NOx fund.
Assessed impacts on participating maritime companies, innovation, technology development etc.
- 2014 **Localizing a new hospital in the Nordmøre and Romsdal region.**
Romsdal Regionråd (ROR). Project manager.
An assessment of the studies considering the impacts of alternative locations.
- 2014 **Carbon release from road building in forests.**
Norwegian Public Roads Administration (SVV).
Assessed how this could be calculated and included in the current road planning model.
- 2014 **New estimates for marginal, external costs from rail transport.**
National Rail Administration. Project manager.
An assessment of new studies of external marginal costs for road and sea transport. Presents a proposal on how these could be used to changes unit costs in the National Rail Administration's planning models.
- 2013-2014 **Economic assessments of health effects in Argentina, Perú, Hidalgo State of Mexico and Piau State of Brazil.**
The World Bank.
Provided estimates of health effects from outdoor and indoor air pollution, lead exposure and inadequate water supply, sanitation and hygiene.
- 2012-2014 **Radar and sensor technologies for Norwegian defense air space surveillance.**
Ministry of Finance and Ministry of Defense.
As part of the quality assurance regime (KS1) we analyzed the costs and benefits of different conceptual choices for radar and sensor technologies for defense air space surveillance. In cooperation with Holte Consulting.
- 2013-2014 **Cost benefit analysis of the establishing of a national height data mapping model.**
The Norwegian Mapping Authority. Project manager.
- 2013 **A strategy for the use of grants to investments in charging stations for electric cars.**
Transnova. Project manager.
Provided help to prepare a strategy on how to prioritize the grants.
- 2013 **Evaluation of the Norwegian Rent Disputes Tribunal (Husleietvistutvalget, HTU).**
Ministry of Local Government. Project manager.

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- 2013 An assessment of HTUs performance, including a cost benefit analysis.
Application for hosting Winter Olympic Games in 2022.
Oslo Municipality.
As part of the quality assurance regime (KS1) we did an audit of the application. In cooperation with Ernst&Young.
- 2013 **Purchasing a new coast guard vessel.**
Norwegian Ministry of Defense.
Prepared an assessment of whether the vessel should be bought or rented as part of a quality assurance (KS2) of the costs. In cooperation with Holte Consulting.
- 2013 **Mapping of expenses in municipal agricultural administration.**
Norwegian Ministry of Agriculture and Food
- 2012-2013 **Assessment of the minerals industry in Northern Norway and potential towards 2030.**
Norwegian Ministry of Industry and Trade. Project manager.
In cooperation with Sweco.
- 2012-2013 **Ecosystem services in Barents Sea and Lofoten.**
Norwegian Ministry of Industry and Trade.
An assessment of ecosystem services in the area, potential conflicts between these and various commercial activities and guidelines on how these could be assessed and chosen between.
- 2012 **Socio-economic impacts of deteriorated environmental conditions in the North Sea and Skagerrak.**
The Expert Commission on Ecosystem Services. Project manager.
- 2012 **Norwegian capacity for tugging boats.**
Norwegian Ministry of Finance/Ministry of Fisheries and Coastal Affairs. Project manager.
As part of the quality assurance regime (KS1) we analyze the costs and benefits of different conceptual choices for building national capacity for tugging boats. In cooperation with Holte Consulting.
- 2012 **Evaluation of grants to increase ecological agriculture production.**
Norwegian Agricultural Authority. Project manager. In cooperation with Damvad.
- 2012 **Evaluation of the Competence network for small-scale food production.**
Innovation Norway. In cooperation with Oxford Research.
- 2010-2012 **Water, Sanitation and Hygiene and Urban Environmental Health Risks.**
The World Bank. Project manager.
Estimated environmental costs risks from inadequate water supply, sanitation and hygiene and urban environmental health risks from air pollution in Sindh (Pakistan) and Sundarbans (Bangladesh), and undertook a cost benefit analysis of interventions to improve the situation.
- 2011-2012 **Location of bases for fighter planes.**
Ministry of Finance and Ministry of Defense.
As part of the quality assurance regime (KS1) we analyze costs and benefits of different alternatives for locating the bases for fighter planes. In cooperation with Holte Consulting.
- 2011-2012 **Urban planning of transport and environment in Kristiansand city.**
Ministry of Finance and Ministry of Transport.

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As part of the quality assurance regime (KS1) we analyze the costs and benefits of different transport scenarios in Kristiansand. In cooperation with Holte Consulting.

2011-2012 **New road project E39 Søgne-Ålgård, Norway.**

Ministry of Finance and Ministry of Transport.

As part of the quality assurance regime (KS1) we analyze the costs and benefits of different alternatives for the road. In cooperation with Holte Consulting.

2011-2012 **Evaluation of Nordic Development Fund (NDF).**

NDFs Board. Project manager.

Evaluation of NDFs activities during the first two years of operation under their climate mandate.

2011-2012 **Costs and benefits from the phase-out of amalgam use in Norway.**

The Norwegian Climate and Pollution Agency. Project manager.

An assessment of the ban on amalgam use to reduce mercury release to the environment.

2010-2012 **Developing a KVVU for an Ocean Space Centre in Trondheim.**

Marintek. Project manager.

Assisted in developing a "Konseptvalgutredning" for the project, including a cost benefit analysis.

2010-2011 **Emissions reductions in aviation?**

Norwegian Ministry of Transport.

Assessed various policy options beyond those considered in KLIMAKUR.

2010-2011 **Greening the economy: Nordic experiences and challenges.**

Nordic Council of Ministers. Project manager.

Assessed the Nordic countries' approaches, results and experiences from their environmental policies with emphasis on use of economic instruments.

2010-2011 **Costs and benefits from increased afforestation in Norwegian coastal areas.**

Det norske Skogselskap. Project manager.

2009-2011 **Provincial five-year environmental plans.**

Norwegian embassy Beijing/Ministry of Foreign Affairs.

Together with Chinese Academy of Environmental Planning we analyzed and advise on the effectiveness of current provincial five-year environmental plans and provided policy recommendations for improving the plans.

2010 **Assessing the demand for electric and hybrid cars in Norway.**

The Norwegian Public Roads Administration. Project manager.

2010 **Cost benefit analysis of allowing petroleum activities in the Lofoten and Barents sea area.**

Norwegian Ministry of Environment.

2010 **Evaluation of the experiences with the use of KVVU for early stage project appraisals in the transportation sector.**

Norwegian Ministry of Transport and Communication.

Assessment of the use of the tool KVVU ("Konseptvalgutredning") for larger investment projects in the sector.

2010 **Socio-economic consequences of better access to goods, services and information for disabled people.**

Norwegian Ministry of Children, Equality and Social Inclusion.

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- Estimating costs of changes in the Discrimination Act. In cooperation with Proba Samfunnsanalyse.
- 2010 **Economic and administrative costs of phasing out some hazardous substances.**
Norwegian Ministry of Environment. Project manager.
Estimated costs and main consequences of various scenarios for reducing use of hazardous substances, pesticides, cleaning up contaminated sites etc. Input to Miljøgiftsutvalget (The Hazardous Substances Commission).
- 2009 **KLIMAKUR – actions to reduce GHG emissions.**
Norwegian Pollution Control Authority.
Helped the Government KLIMAKUR group analyzing cost efficient policy measures to fulfill the Norwegian goal for emission reductions.
- 2009 **Impacts of renewable energy investments.**
Energy Norway. Project manager.
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.**
Norwegian Petroleum Institute. Project manager.
Calculated the various subsidies for purchase and use of electric and hybrid vehicles.
- 2009 **Cost benefit analysis of reducing emissions to water.**
Norwegian Petroleum Directorate. Project manager.
Considered 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.
Presented 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.**
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. In cooperation with NILU.
- 2008 **Barriers for production of 2. generation biofuels in Norway.**
Norwegian Pollution Control Authority.
Assessed barriers and potential policy measures to promote production.
- 2008 **ICT and climate change.**
Ministry of Government Administration and Reform. Project manager.

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Considered various ways new information and communication technologies (ICT) could contribute to reducing greenhouse gas emissions, and presented potential emissions reduction and cost saving from increased use of videoconferences by 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.

A quality assurance of the cost benefit analysis that has 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.**

Norwegian Ministry of Transport and Communications. Project manager.

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.

Advised 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.

Evaluated 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.

Explored 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 **Industrial consequences of increased NOx-tax.**

Confederation of Norwegian Enterprise and Norwegian Oil Industry Association. Project manager.

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 for change.

2007 **Evaluation of Geological Survey of Norway.**

Norwegian Ministry of Industry and Trade.

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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.

The World Bank. Project Manager.

Provide the WB with inputs on urban pollution issues to their work on a CEA.

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.

The World Bank. Project Manager.

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.

Analysed 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.

Analysed 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.

The World Bank and Government of Turkey. Project Manager.

Assessed challenges for Turkey's SME environmental policy and proposed ways forward to comply with EU policy.

2006

Implementation of EU industrial pollution control Directives in Turkey – the case of lignite-fired power plants.

The World Bank. Project Manager.

Assessed how Turkey could implement the IPPC, LCP and NEC Directives, eventually by using economic instruments. Presented potential cost savings from using such instruments.

2005-2006

Investing in fighter planes in Norway – an economic analysis.

Ministry of Defense.

A 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).

The World Bank. Project Manager.

Responsible for urban water, sanitation and waste management.

2005-2006

Urban Air Pollution Control in Peru.

The World Bank. Project Manager.

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.

The OECD. Project Manager.

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- Described 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.
Analysed how each of the Nordic countries have implemented the EU emissions trading system.
- 2005 **Environmental friendly technology – case studies.**
Norwegian State Pollution Control Authority.
Discussed 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).**
Nordic Council of Ministers. Project Manager.
Proposed a model to cover producers' future liabilities for the proper treatment of WEEE.
- 2005 **Developing Norwegian natural gas distribution.**
Enova.
Presented how efficient ship based distribution chains for Liquefied natural gas (LNG) and Compressed natural gas (CNG) 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.
- 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. 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).
Assisted 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 determine different growth trends for the IT hardware manufacturing and IT services in the countries.
- 2004 **CO₂ injection in petroleum reservoirs at the Norwegian Continental Shelf.**
Petoro.
Analysed the economic viability of CO₂ injection at Gullfaks and other oil fields.
- 2004 **How are Norwegian development assistance partner countries affected by a high price on oil?**
The Norwegian Ministry of Foreign Affairs.

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- 2003-2004 **Analysed impacts of a price on oil of 30 and 50 USD respectively on these countries.**
Costs of transporting natural gas to the Norwegian domestic market.
The Norwegian Water Resources and Energy Directorate. Project Manager.
Analysed the market potential for natural gas in various regions and the distribution costs.
- 2003 **External costs from transportation.**
The Norwegian Ministry of Transportation.
Described and estimate monetary values of air emissions, noise, accidents, wear and tear from the various transport modes in Norway.
- 2003 **Natural gas to Grenland.**
Vekst i Grenland. Project manager. 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.**
The Norwegian District Heating Association. Project Manager.
Analysed alternative designs of the electricity tax, their effects in the power market etc.
- 2002-2003 **GHG emissions from international shipping and aviation.**
Swedish Environmental Protection Agency. Project Manager.
Assessed how GHG emissions from international shipping and aviation could be curbed by various policy instruments.
- 2001-2003 **Financial mechanisms for natural disaster risk management in Latin America (LAC).**
The Inter-American Development Bank.
Analyzed how to use financial instruments to reduce natural disaster risk in Chile, Peru and El Salvador.
- 2002 **Joint Implementation – country analysis.**
The Swedish Energy Authorities (STEM).
Analysed the environment for implementing JJI projects in selected countries in Eastern Europe.
- 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. Uses risk analysis to choose mitigation measures.
- 2001 **Emission tax on waste incineration.**
Norwegian Ministry of Environment.
Discussed and proposed a tax on emissions.
- 2001 **Treatment of municipal residual waste in Tromsø.**
Perpetuum AS. Project manager.

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- 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.**
Norwegian Ministry of the Environment. Project Manager.
Estimated emissions from landfill and incineration of waste fractions, and estimates environmental costs.
- 2000 **Evaluation of grants for ecological agriculture production.**
Norwegian Agricultural Authority.
Assessed the effects of the grants to farmers.
- 2000 **Climate Change Policy Scenarios.**
Norwegian State Pollution Control Authority.
Prepared GHG emissions scenarios for Norway, what policy measures to use to curb emissions and what role the SFT could 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 as a source of power generation and for carbon dioxide mitigation.
- 1999-00 **Greenhouse Gas Emissions from Ships.**
International Maritime Organization,
Analyzed how GHG emissions reductions could be implemented through different market-based and other approaches. in co-operation with MARINTEK, Det Norske Veritas and Carnegie Mellon University.
- 1999 **Baseline Methodology.**
Norwegian Ministry of the Environment. Project Manager.
An overview of the status of different approaches for baseline calculations for projects under JI and CDM under the Kyoto Protocol.
- 1999 **Emissions trading and the petroleum industry.**
MILJØSOK/NOVATECH.
Evaluated 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.**
The Norwegian Oil Industry Association. Project Manager.
Analyzed the effects of selected fiscal changes in different petroleum regions in the world, focusing on US and UK.
- 1999 **Evaluation of the KLIMATEK-program.**
Norwegian Research Council. Project Manager.
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.**
Norsk Hydro
Developed a PC-based model for simulating company-internal emissions permits trade.
- 1999 **Emission trading in the Nordic electricity market.**
Nordic Council of Ministers.

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- Analyzed whether and how 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.**
The insurance company Skogbrand. Project Manager.
Proposed how a system for creation and trading of carbon credits could be established.
- 1998 **Shipping and climate change policy.**
Norwegian Shipowner's Association. Project Manager.
Analyzed how the Norwegian coastal fleet could be included in a Norwegian emissions trading system.
- 1998 **Towards greenhouse gas emissions trading within the Nordic Region.**
Nordic Council of Ministers. Project Manager.
Analyzed 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.**
Norsk Hydro and Statoil. Project Manager.
Analysis of different designs of domestic and international policy measures. Offering professional advice on the priorities of the two companies' engagement in relation to climate change.
- 1997 **Taxes on emission permits.**
Norwegian Pollution Control Authority (SFT). Project Manager.
Evaluated the need for implementing emission taxes in the current emission permit system, and proposed how this can be done.
- 1997 **Taxes on products containing environmental hazards.**
Norwegian Ministry of Environment. Project Manager.
Analysed 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.**
Norwegian Pollution Control Authority (SFT). Project manager.
- 1997 **Costs and benefits from treatments of mercury waste.**
Nordic council of ministers. Project manager.
- 1996 **Evaluation of support to the food processing industry.**
Norwegian Industrial and Regional Development Fund (SND).
- 1996 **Optimal policy towards environmental hazards.**
Norwegian Research Council/MILFOR. Project Manager.
Discussed which policy measures one should apply to control environmental hazards.
- 1995-96 **Voluntary agreements to reduce CO2 emissions.**
Ministry of Environment/ Federation of Norwegian Process and Manufacturing Industries (PIL). Project Manager.
Survey of the systems of voluntary agreements between industry and governments in various countries.
- 1995-96 **The environmental cost of littering.**
Norwegian Pollution Control Authority (SFT). Project manager.

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- 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 etc.
- 1995-96 **Challenges for the mining industry.**
Ministry of Industry and Energy.
- 1995 **Biomass as carbon sink.**
Norwegian Forest Owners Federation. Project Manager.
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.**
Ministry of Finance. Project Manager.
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 **Natural disasters prevention actions.**
The Board of the Norwegian Natural Perils Pool.
Analysed the impacts from lack of responsibility for imposing mitigating measures against natural disasters at the local government level, and proposes some policy changes.
- 1995 **Use of natural gas in the Norwegian transport sector.**
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- 1994 **Valuation of external costs in waste management.**
Norwegian Pollution Control Authority. Project manager.
- 1994 **Joint implementation (JI).**
Nordic Council of Ministers. Project manager.
The concept and possibilities of JI for the Nordic countries are explored.
- 1993 **Environmental policy measures.**
Veritas/Ministry of Environment.
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- 1993 **GEF ILUMEX project.**
Norwegian Ministry of Foreign Affairs.
Contributions to an appraisal study of a Global Environmental Facility (GEF) joint implementation pilot project promoting installation of compact fluorescent lamps in Mexico.