



Curriculum Vitae

Haakon Vennemo

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Profile

Haakon Vennemo, PhD and Professor, is an expert in environmental economics, energy economics and development issues, with a broad knowledge of macro and micro-economics in general. He has project experience from a large number of countries in Asia, Africa and Latin-America and is an experienced project manager as well as participant. In China he has project experience since 1996.

His work includes, but it not limited to green transformation, green finance, co-control, environmental risk, household air pollution, bio-diversity. Haakon is also engaged in domestic Norwegian policy issues, where he does analysis of policy design, regulatory analysis, cost-benefit analysis, strategic environmental assessment, market analysis and evaluations.

Haakon has taken part in several hundred policy research projects and is project manager in most of them. Dissemination is an integral part in all of his projects.

Haakon Vennemo has strong academic credentials and close to 60 referee publications in journals and books.

Academic background

2010	Professor, Business School, Oslo Metropolitan University.
1992	Ph.D. in Economics, University of Oslo
1986	Master of Economics, University of Oslo
1980	Undergraduate studies in Liberal Arts, Luther College, Decorah, Iowa, USA

Work experience

2010-	Vista Analyse , partner, managing director (2019-2023)
1991-	University of California, Berkeley, Lawrence Berkeley National Laboratory, China Energy Group , Research Affiliate. 2.5 years of longer and shorter visits.
2010-2021	Handelshøyskolen ved OsloMet , adjunct professor
1995-2009	ECON Analyse , division head, managing director (1999, 2001) and partner
1986-1995	Statistisk sentralbyrå, forskningsavdelingen , researcher

Projects in Norway and Europe

- 2024 **Consequences of extraordinary pay-roll tax on high incomes**
NHO
The extraordinary pay-roll is supposed to be temporary, but appears to be slowly reduced. We carry out a cost-benefit analysis of the tax, using the macro model NOREG 2.
- 2024 **The oil tax package and financing of climate aid**
Norwegian Church Aid
Based on actual figures for reported projects, we consider the subsidy element in the oil tax package. On this background, we are considering options for reducing the package to free up funds for climate assistance.
- 2024 **Evaluation of Samfunnsløftet – an initiative from Sparebank 1 Nord-Norway**
Sparebank 1 Nord-Norway
Samfunnsløftet is an application-based scheme where Sparebank 1 Nord-Norway finances measures for the population in the region. We are evaluating the scheme.
- 2024 **Evaluation of the changes in corporate tax 2014-2019**
Finance
Between 2014 and 2019, corporate tax has been reduced from 28 to 22 percent. The question is whether this has led to more investments in Norway.
- 2023-24 **Resource use in the police – an efficiency analysis**
Ministry of Justice and Public Security
We investigate the use of resources related to solving police tasks in different districts (internal efficiency). Data Envelopment Analysis (DEA) and Stochastic Frontier Analysis (SFA) are important methods.
- 2023-24 **Choice of route for the ski trail in Gjevilvassdalen – consequences for businesses and residents**
Oppdal kommune
We assess the consequences for businesses and residents of different routes for ski trails in Gjevilvassdalen.
- 2023-24 **Compensation for capital costs in the municipal revenue system**
Ministry of Local Government and Rural Affairs
Norwegian municipalities are compensated for structural differences in operating expenses. Two committees have considered whether capital expenditure should also be compensated, and have reached different conclusions. We do a comprehensive review of the question.
- 2023-24 **KS1 Green – decarbonising the railway**
Ministry of Transport and Communications and Ministry of Finance
We quality assure KVV on measures that will make the railway emission-free.
- 2023-24 **KS2 new building for the Grieg Academy**
Ministry of Education and Research and Ministry of Finance
The Grieg Academy – Department of Music is part of the University of Bergen. The measure to be quality assured is to invest in a new building for the Grieg Academy. In addition to normal tasks under KS2, we prepare a cost-benefit analysis of the measure against a reference alternative.
- 2023-24 **KS2 Collection in the future part 2**
Finansdepartementet

Collection in the future is a major ICT project in the Norwegian Tax Administration. The implementation is divided into three stages with quality assurance of each stage and the whole. We quality assure stage 2, where the main emphasis is on efficiency aimed at people.

2023

Capital costs in agriculture

Menon og Norsk bonde- og småbrukarlag

We assist Menon and the Norwegian Farmers' and Smallholders' Union to investigate how the "total calculation" in agriculture can take capital costs into account in a better way.

2023-24

Capacity building for renewable energy in the Satu Mare Region, Romania

EEA Grants

WE contribute increased knowledge on renewable energy and its local potential among 1000 school children and 1000 adults, plus representatives of local government and stakeholders.

2023-24

Use of biogas and biofuels in Poland and Norway – a comparative study

EEA Grants

Poland has the potential to use biogas from waste incinerators for heating. In Norway, the potential is linked to biofuels. We compare technical and regulatory conditions in the countries and propose improvements. With the Institute of Environmental Protection.

2023

Use of electronic monitoring – a literature review

Department of Justice

We use bibliography for a literature review of experiences with the use of electronic monitoring in Norway and other countries.

2023

Regulation of petroleum activity in North Sea countries

Oil Change International

We compare the regulation of petroleum activities in the countries bordering the North Sea – Norway, Denmark, Germany, the Netherlands and the UK. Topics include petroleum tax, exploration activity.

2023

Network coverage on the railway

Bane Nor

Cost-benefit analysis of concept alternatives and financing options in connection with a pilot project ("forprosjekt").

2023

Digitalisation in the UDI

Ministry of Finance and Ministry of Justice

In this supplementary analysis of the Ministry of Finance's quality assurance regime, we review the strategic management document for a new digitalisation solution in the UDI. We place particular emphasis on contract strategy.

2023

Instruments for electricity support for households of relevance to the Norwegian State Housing Bank

The Housing Bank

We review the literature and discuss how an electricity support scheme can be designed to reach the Norwegian State Housing Bank's customers while being fair and socially efficient.

2023

An alternative design of the electricity subsidy scheme for households

YS

Today's electricity support favours those who use a lot of electricity, which to a large extent are households in the upper income brackets. We outline an alternative system where support is disbursed according to household size.

- 2023 **Coastal industries in Vestfold and Telemark**
Vestfold and Telemark County Municipality
We assist Vestfold and Telemark counties in assessing the resource and industrial potential that exists to develop coast-based industries in Vestfold and Telemark.
- 2022- **Desalination and renewable energy, Greece (BriZE)**
EEA Grants
We assist with dissemination activities in a project to establish a desalination plant that uses solar energy to turn salt water into drinking water on the island of Kimolos, Greece.
- 2022-23 **Assistance in facilitating and conducting an auction for offshore wind**
Ministry of Petroleum and Energy
We are assisting the MPE in designing and executing the auction of offshore wind capacity for "Sørlige Nordsjø II". It involves assistance from early planning until the auction is completed. Vista is along with Guidehouse and Procurex,
- 2022-23 **The Norwegian Armed Forces' secure platforms and associated services: KS1**
Ministry of Finance and Ministry of Defence
Quality assurance (KS1) of concepts for the development of secure data platforms in the Norwegian Armed Forces.
- 2022-23 **Public support schemes during the corona pandemic**
Corona Committee
We prepare a detailed overview of support schemes during the pandemic.
- 2022-23 **Coastal industries in Viken**
Viken County Municipality
We assist Viken County Council in assessing the resource and industrial potential that exists to develop coast-based industries in Viken.
- 2022-23 **Net emissions from increased Norwegian production of oil and gas**
WWF, Naturvernforbundet, Natur og Ungdom og Greenpeace
In the debate on the future of Norwegian oil and gas, it is important to know how much global emissions will increase if new Norwegian production is established. We analyze this question.
- 2022-23 **Conceptual study for the police and the Ministry of Justice**
Police
We assist the police and the Ministry of Justice in a conceptual study. Collaboration with Metier.
- 2022-23 **Effects of electricity support schemes**
Nordic Energy Research
An evaluation of the impact of the EU's electricity support schemes in the Nordic countries. We map how the schemes have been implemented and how they affect the common power market in the Nordic region.
- 2022 **Enova Analysis of prices**
Enova
Enova needs updated calculation prices for energy carriers at a detailed level for its project calculations. We draw up these and also propose a scheme to take account of price uncertainty.

- 2022 **Improvements in the electricity tax system**
Hafslund E-CO
 We assist Hafslund E-CO in developing a power tax system that is better for societal efficiency than the system of high-price contributions proposed for 2023.
- 2022 **Economic and welfare effects of high electricity prices**
Ministry of Petroleum and Energy
 In this model-based analysis, we review the direct and indirect effects of high electricity prices on consumers, businesses and power producers.
- 2022 **Wider economic impacts of decommissioning of oil installations and nuclear installations**
Smart Innovation Norway
 Norway and the rest of the world must invest in decommissioning and removing oil installations and nuclear power plants in the years to come. This can provide business opportunities for relevant Norwegian industry. We discuss the potential and possible ripple effects of decommissioning as an industry.
- 2022 **Models for more equal grid tariffs**
Samfunnsbedriftene
 We study the advantages and disadvantages of different models for geographically more similar grid tariffs in Norway.
- 2022 **Analysis of the housing market in Tønsberg**
Tønsberg municipality
 The housing market in and around Tønsberg is out of balance. We analyse this in more detail and provide advice on which housing types Tønsberg municipality should prioritise.
- 2022 **Evaluation of personalised policy instruments in Nord-Troms and Finnmark**
Ministry of Local Government and Rural Affairs
 Personalised measures include student loan depreciation and income tax deductions. We evaluate these instruments using econometric methods, model analyses and surveys.
- 2022-2023 **Energy efficiency measures in Kotaczkowo, Kazimierz Biskupi and Olesno, Polen**
EEA grants
 In cooperation with the municipal authorities in Kotaczkowo, Kazimierz Biskupi and Olesno, we are assessing the effect of measures for post-insulation of schools and kindergartens in these municipalities.
- 2022 **Economic consequences of EU carbon tariffs (CBAM)**
Foreign ministry
 The EU is considering introducing carbon tariffs. In this model-based analysis, we study the effects of EU carbon tariffs on Norwegian exports and the Norwegian economy.
- 2022 **Cost-benefit analysis of measurement and measurement technology**
Ministry of Trade, Industry and Fisheries
 We calculate the socio-economic value of better measurements in aquaculture and fisheries, and study necessary regulatory changes.
- 2022 **Scenarios for development of municipal debt**
KBN
 We develop an econometric projection model for municipal investment and debt demand up to 2035, and conduct model-based scenario analysis.
- 2022 **Wider economic impacts of the Wisting development**
Naturvernforbundet, Greenpeace, WWF and Nature and Youth

	KPB has conducted a ripple effect analysis of the Wisting field in the Barents Sea. We review the analysis and its results.
2022	Informed pension choices – introduction of new public service pension: KS1 <i>Ministry of Finance and Ministry of Labour and Social Inclusion</i> Quality assurance (KS1) of concepts that make it possible to inform government employees about good pension choices, and pay out pensions on time.
2022	Life extension of Ula-class submarines: KS2 <i>Ministry of Finance and Ministry of Labour and Social Inclusion</i> Quality assurance (KS2) of lifetime extension of Ula-class submarines. KS1 has not been implemented and our KS2 includes quality assurance of alternative analysis.
2021-22	Knowledge base for the Directorate for Cultural Heritage's conservation strategies <i>Directorate for Cultural Heritage</i> The knowledge base consisted of i) interview survey; ii) web-based survey; iii) document review
2021-22	Handling queues in the power grid <i>Statnett</i> The demand for access to the power grid is higher than capacity in many parts of the country, and the problem is increasing. Until capacity is expanded, Statnett will have to regulate the queue. In this advisory project, we provide a knowledge base for optimal regulation of the queue.
2021-22	Advice and quality control of "Common Municipal Journal" KS Common Municipal Journal is a programme for harmonising and integrating the digitized patient record archive across municipalities in Norway. We provide advice and quality control of the processes for establishing the Common Municipal Journal.
2021	Railway between Lillestrøm and Eidsvoll (Hovedbanen Nord): KS1 <i>Ministry of Finance and Ministry of Transport and Communications</i> Quality control (KS1) of options for modernization of the North Main Line (KVU).
2021	Evaluation of the programme Concept study for innovative climate and energy solutions <i>Enova</i> The Concept Study for Innovative Climate and Energy Solutions programme has been developed to help and guide in the projects' concept phase. We conduct a process evaluation and effect evaluation of the program.
2021-22	Mapping the extent of economic crime <i>Ministry of Justice and Public Security</i> Using surveys, interviews and statistics, we estimate the extent of economic and financial crime in Norway.
2021	Cost-benefit analysis of New Service Jobs <i>NHO service and trade</i> We evaluate a tax deduction proposal for anyone who books service jobs (such as cleaning services) for their own home. The measure is intended to increase the number of formal jobs and reduce tax evasion among suppliers.
2021	Follow-up evaluation of the projects Lysaker station and double track Lysaker-Sandvika <i>The NTNU Concept programme</i> We evaluate the outcome of two railway investment projects against planning forecasts and assessments.

- 2021 **Regional consequences of green transition**
Ministry of Local Government and Modernisation and Research Council of Norway
 We analyse the consequences of a green transition, characterised by restructuring and ambitious climate policy, in Norway the next 10-30 years. The analysis is based on NOREG 2, a regionally differentiated applied general equilibrium model for the Norwegian economy.
- 2021 **Assessment of the housing market in and around Bergen municipality**
Bergen Municipality
 Bergen Municipality wishes to understand the local housing market better. We provide a knowledge base and assessment of the market.
- 2021 **Wider economic impacts of a national facility for disposal of radioactive waste**
NND (Norwegian Nuclear Decommissioning)
 We calculate wider economic impacts during the investment and operation of a national centre for the treatment of nuclear waste.
- 2021 **New tanks for the Norwegian army: KS2**
Ministry of Finance and Ministry of Defence
 Quality assurance (KS2) of cost estimates and planning and management documents for an investment proposal for the purchase of new tanks for the Norwegian infantry.
- 2021 **New port for ferries from Oslo to Denmark and Germany**
Oslo Municipality
 The City of Oslo is considering moving the port for ferries to one or more new locations. We perform a social analysis including a socio-economic assessment of the various alternatives.
- 2021 **County municipalities' instruments for value creation from regional energy resources**
Kraftfylka
 We assess the usefulness of instruments available at county level to promote business development, particularly business development based on energy resources. The assessment is based on a survey aimed at 49 regional politicians and civil servants.
- 2021 **Digitisation of collection at the Tax Administration: KS2**
Ministry of Finance
 Quality assurance (KS2) of cost estimates and planning and management documents for the digitisation programme for modern and cross-institutional collection in the Norwegian Tax Administration.
- 2020-2021 **The economic costs of the corona pandemic in Norway**
Ministry of Local Government and Modernization
 We evaluate the economic costs of the pandemic in Norway and break it down by county/fylke to estimate regional differences. Furthermore, we estimate long-term costs. Our analysis is based on the regionalized macroeconomic model NOREG 2.
- 2020-2021 **Evaluating the prevalence of structural racism in the city of Bergen**
Bergen Municipality
 Using qualitative and and quantitative methods we assess and evaluate the prevalence of structural racism in the city of Bergen.
- 2020 **Methodologies for evaluating the sustainability of transport solutions**
Statens vegvesen

When planning transport solutions planners increasingly need a method for evaluating the sustainability of the solutions. We survey the available literature and provide recommendations.

2020 **Comparing two designs of the annual excise tax for owning a car**

Statens vegvesen

We compare the economic efficiency at equal revenue of a design whereby owners may opt in and out depending on whether the car is used, and the current system.

2020 **Evaluating the education of nurses**

Norsk sykepleierforbund (Norwegian Association of Nurses)

There are national criteria for what a nurse is supposed to know at graduation, but local universities and colleges develop independent curricula. We evaluate whether prospective nurses will in practice achieve an equal level of competence.

2020 **Location of a freight terminal in the Østlandet region**

Ministry of Transport and Ministry of Defence

We perform quality control (KS1) of proposals for how to organize future freight transport in southern Norway and the need for a freight terminal in the Østlandet region.

2020 **Comparing two locations for a training camp for conscripts**

Mosjøen næringspark

We compare travel costs for two possible locations for a training camp for conscripts: a) Terningmoen and Drevjamoen and b) Terningmoen only. We distinguish financial and economic costs.

2020 **Capability upgrades of F35: KS2**

Ministry of Finance and Ministry of Defence

We perform quality control (KS2) of cost estimates and plan and governance documents of the investment project.

2020 **Multiplier effects of electric ferries and “electrification” of petroleum production**

Energi Norge

We estimate multiplier effects of investing in electric ferries and the “electrification” of petroleum production in Norway. Multiplier effects primarily arise through the input-chain, and through income generation.

2020 **Multiplier effects of regeneration of plastic waste**

A private company

We work out the multiplier effects on employment of investing in, and running a facility for regeneration of plastic waste.

2020 **The cost of exams and compulsory tests**

The Norwegian Directorate for Education and Training (Udir)

Building on a previous project we estimate the costs of conducting exams and compulsory tests (“nasjonale prøver, “kartleggingsprøver”) in Norwegian schools. We base the investigation on a survey directed at all schools, and all municipalities in Norway.

2020 **Economic and social analysis of the localization of hospitals in the Innlandet region**

Helse Sør-Øst RHF

We analyze multidimensional consequences of scenarios for the localization of hospitals in the Innlandet region. Special emphasis is put on the localization of the general hospital and a hospital for emergency room visits.

- 2020 **Accessibility of websites and mobile applications in Norway part III**
Ministry of Local Government and Modernisation
A new EU directive requires accessibility of websites and mobile applications of public sector bodies. Existing requirements in Norway apply to both the public and private sector. We analyze whether it is efficient to extend the added requirements of the directive to the private sector. Update of analysis from 2017 with new alternatives.
- 2020 **Economic analysis of an R&D center for oil spill preparedness**
Center for oil spill preparedness and marine environment (SOMM)
We perform an economic analysis (KVU) of alternative options for an R&D center for oil spill preparedness.
- 2020 **Impacts of the covid 19 pandemic on the new renewable energy industry**
EnergiNorge
The covid 19 pandemic has contributed to considerably lower prices of electricity. We analyze the impacts of this shock on value creation and tax revenues generated by the industry.
- 2020 **Capability upgrades of the fighter jet F35**
Ministry of Finance and Ministry of Defence
Quality assurance (KS1) of an analysis of three alternatives for capability upgrades for the fighter jet F35.
- 2020 **Wider economic benefits of railway investments**
Bane NOR
We estimate wider economic benefits of four railway projects in the East and West of Norway.
- 2020 **Mechanisms for increasing Norway's contribution to climate finance**
Norwegian Church Aid
We discuss reasonable and practicable ways of increasing Norwegian contributions to international climate finance to about 65 billion NOK per year.
- 2019-2023 **Formative evaluation of a new design for archeological research in transport projects**
Nye veier
In this multi-year project we perform formative evaluation ('følgeevaluering') of a new design for archeological research in conjunction with transport infrastructure investment.
- 2019-2020 **Economic analysis of the costs of construction in the ground**
Ministry of Local Government and Modernisation
Construction work in the ground is associated with several negative effects, from taking up space to the risk of accidents. Broken cables and pipes is another problem. We analyze and estimate the economic cost of construction work in the ground.
- 2019-2020 **Modernizing the collection of taxes, fees and fines at the Norwegian Tax Administration**
Ministry of Finance
Quality assurance (KS1) of an economic analysis (KVU) of three alternatives for modernizing and digitizing the collection of taxes, fees and fines as the Norwegian Tax Administration moves from seven parallel systems towards one, unified system.
- 2019-2020 **Estimating the extent of the renewable energy cluster in Norway**
Energi Norge

Using life cycle methodology we estimate the extent of, and wider economic benefits from, the renewable energy cluster in Norway.

- 2019 **Renting or owning office space**
Oslo Metropolitan University
The university would like an estimate and assessment of whether it more beneficial to own, rather than rent space for offices and campus facilities.
- 2019 **Estimating the cost and benefits of measures related to autism**
Ministry of Health and Care Services
The Ministry would like an assessment and estimate of costs and benefits of measures designed to help people with Autism Spectre Disorder (ASD) and Tourette's syndrome.
- 2019 **Evaluating recent changes in the Norwegian system of taxation**
Ministry of Finance
In recent years there have been several rate change and other changes in the Norwegian system of taxation. We analyze these changes and propose a program for a full multi-year evaluation of the changes.
- 2019 **Estimating the cost of exams and compulsory tests in Norwegian schools**
The Norwegian Directorate for Education and Training (Udir)
Little is known about the costs of conducting exams and compulsory tests ("nasjonale prøver, "kartleggingsprøver") in Norwegian schools. Based on extensive interviews and assessment of accounts we provide the first estimate of this kind in Norway.
- 2019 **Evaluating the program Support to renovation of existing buildings**
Enova
The program Support to existing buildings ran in Enova from 2013-2018. WE conduct a process-evaluation and effect-evaluation of the program.
- 2019 **Survey of the age profile of mobile apps in Norway**
Difi
More and more mobile apps are designed for universal accessibility, and in the future all need to be. To ease the transition Difi will publish guidance documents. As a basis for this work Vista Analyse performs a survey of the current status and age of mobile apps in Norway.
- 2019 **Advice on a strategy for Drammen havn (Port of Drammen)**
Drammen Municipality
The organization of Drammen havn is about to change. We advise Drammen Municipalities on different ways forward.
- 2019 **Architects in Norway: Resources spent competing for assignments**
Norwegian architect firms
We perform an economic analysis of the amount of resources spent by architects in Norway in competitions for assignments.
- 2019 **Advice on the capital base for natural disasters**
Finance Norway
We advise Finance Norway on the economic calculation of the capital base for natural disaster compensation, and the implications for competition and efficiency of the insurance market that flow from recommendations of a recent public commission on natural disaster compensation.
- 2019 **Framework for developing ITS (intelligent transport systems) in Norway**
Statens vegvesen
We survey initiatives and trends within ITS with relevance for Norway, and the future role of Statens vegvesen in light of ITS. With Boldt.

- 2018-2019 **“Benefit management” of large investment projects in Norway**
NTNU Concept programme
 We survey international best practice and the academic literature on benefit management in Norway, and explore how benefit management has been applied in Norwegian investment projects. On this basis we suggest improvements in the framework for benefit management in Norway.
- 2018-2019 **Developing a bachelor program in sustainable economics**
Inland Norway University of Applied Sciences
 Sustainable economics combines economics and sustainable development, with necessary support from law, ethics and political science. We advise Inland Norway University on the content of a bachelor program in sustainable economics.
- 2018 **Indicators for sustainable transport**
Enova
 To follow up reporting requirements Enova is searching for indicators of sustainable transport within different transport areas of interest, such as sustainable emission free land based transport and sustainable emission free water based transport. We help Enova develop these indicators.
- 2018 **Synergy network.**
Ministry of Justice and Public Security
 Vista Analyse is part of a network to research and disseminate projects and analysis of gender based violence (GBV) among EEA and EU member states. Our role is to provide economic competence on the issues at hand.
- 2018 **Joint seminar on Just Transition between Poland and Norway**
EEA Grants and Institute of Environmental Protection – National Research Institute
 We provided expert advice on climate adaptation, green infrastructure, jobs and public health, and worked as rapporteur from the joint Polish-Norwegian seminar on Just Transition, in preparation for the 2018 COP meeting in Katowice.
- 2018 **Evaluating the support mechanism for cooperation between ports**
The Norwegian Coastal Administration (Kystverket)
 We evaluate the efficiency and effectiveness of the support mechanism to encourage cooperation between ports in Norway; and suggest how the mechanism might be improved. With Oxford Research.
- 2018 **Taxation of resource rent in fish farming**
Norwegian Seafood Federation (Sjømat Norge)
 We discuss analytical arguments for and against the existence of resource rent in Norwegian fish farming, and provide numerical examples of what a tax on resource rent might entail for fish farms.
- 2018 **Market failure as a motivation for the policy tools of ENOVA**
ENOVA
 Using a number of policy tools ENOVA provides support for energy efficient and climate-smart solutions. To increase additionality and effectiveness of support it is important to relate policy tools to market failures. In this advisory project we provide a nomenclature for doing so.
- 2018 **Evaluating the applied research institutes at Oslo Metropolitan University**
Oslo Metropolitan University

- Oslo Metropolitan University owns four applied research institutes (NOVA, AFI, SIFO and NIBR). We provide assistance to a task force that evaluates the future organization of the institutes within OsloMet.
- 2018 **New accounting requirements for VAT**
The Norwegian Tax Administration
 We evaluate a proposal to require businesses to report purchase and sales values and VAT per transaction in business-to-business dealings.
- 2018 **Towards a strategic National Transport Plan**
Nye veier AS (New Roads AS)
 Advisory consulting on how to make the National Transport Plan a more strategic document. The National Transport Plan is the major document in Norway for motivating and suggesting investments in the transport sector.
- 2018 **Multiplier effects of “green” investments in Western Norway**
Norsk klimastiftelse
 Using regional economic impact analysis with multiplier effects we estimate the number of jobs that might be created as a result of “green” investments in Western Norway.
- 2017 **Accessibility of websites and mobile applications in Norway**
Ministry of Local Government and Modernisation
 A new EU directive requires accessibility of websites and mobile applications of public sector bodies. Existing requirements in Norway apply to both the public and private sector. We analyze whether it is efficient to extend the added requirements of the directive to the private sector.
- 2017 **The value of lost load over long time periods in Norway**
NVE and Statnett
 Building on a project of 2016-2017 we estimate the value of lost load in Norway among households that have experience being without power for 24 hours or more.
- 2017 **Economic consequences of neglect and violence against children**
Ministry of children and equality
 We estimate economic costs to society of neglected children and violence against children. The analysis is written to a government commission (NOU 2017:12) and published as an annex to its report.
- 2017 **Revised legislation for ports and docks**
Department of communications
 Member of a government appointed commission to suggest revisions to the current legislation of ports, docks and waters in Norway.
- 2017 **Climate adaptation in Poland**
EEA Grants
 We provide training and help design a strategy for climate adaptation in 106 Polish cities and towns. The training schedule involves 500 participants who each receive one week of training. With Polish Institute of Environmental Protection – National Research Institute.
- 2017 **Demand side flexibility – A survey**
Nordic energy research

- We present 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 **The exposure of the Norwegian government to petroleum related assets**
Greenpeace
We evaluate the Norwegian public sector exposure to petroleum related assets. The exposure is drawn from several sources, including the Government Pension Fund Global ("the sovereign oil fund"), state own petroleum companies, and future tax revenue from petroleum production. We conclude that the Norwegian public sector seems to be significantly overweighted in petroleum related assets.
- 2017 **The sharing economy and the environment**
Nordic Council of Ministers
We investigate environmental consequences of 'the sharing economy'. The sharing economy entails improved utilization of built capital, and sometimes better utilization of human capital. The improved utilisation of capital, in particular, reduces demand for investment, at least in the short run.
- 2016-2018 **Alternatives to grid investments**
Statnett and ENOVA
Building electricity grids to meet peak electricity demand is expensive. We analyze other means of resolving the situation, including non-grid supply investments, lower peak demand, lower overall demand. Case studies of Oslo and Finnmark are included.
- 2016-2018 **Estimating the value of lost load in the household sector in Norway**
NVE and Statnett
We carry out a contingent valuation study to estimate the value of lost load among households in Norway. Based on the study we suggest a revised formula for the value of lost load among households in Norway.
- 2016 **Assessing wider economic benefits in eight transport projects**
Nye veier AS (New Roads AS)
The publicly owned company Nye veier, which finances transport infrastructure, is interested in assessing wider economic benefits related to eight projects in its portfolio. We provide advice and estimates using our modelling framework.
- 2016 **Guidance document on wider economic benefits in handbook V712**
Statens vegvesen
We provide a check list for distinguishing which road transport projects have a potential for significant wider economic benefits and propose a text on treatment of wider economic benefits to be used in the next version of the handbook.
- 2016 **The sharing economy.**
Ministry of Local Government and Modernisation
The sharing economy may have profound consequences for productivity, social relations and the way we spend our lives. The project discusses important initiatives in the sharing economy in Norway, analyses the current importance in the economy and outlines its potential.
- 2016 **Green competitiveness.**
Ministry of Climate and Environment

In this project we identify opportunities for Norwegian industry in light of the green transformation that is in front of us. We quantify these opportunities in a macro-economic scenario. Besides, we discuss policies and strategies to support promising opportunities, and we analyze indicators of green competitiveness.

- 2016 **Grid investment in Sør-Rogaland.**
Statnett
Statnett is performing an economic analysis in the KVV-format of different investment alternatives for improving grid capacity in Sør-Rogaland. Improved grid capacity will improve security of supply. We perform quality control (KS) of the Statnett analysis.
- 2016-2018 **Wider economic benefits of E39 Lyngdal - Sandnes.**
Statens vegvesen
E39 Lyngdal - Sandnes is a major highway investment project in Norway. We analyse wider economic benefits of this project. The emphasis is on differences between the different corridors for the highway.
- 2016 **The impact of tying of financial services for economic efficiency.**
Forbrukerrådet
Banks in Norway follow the practice of tying different financial services together. From a theoretical standpoint it is not clear whether tying is efficient or inefficient. The practical question is which models have assumptions that fit better with the reality of financial services.
- 2015-2016 **Grid investment in the north of Norway.**
Statnett
Statnett is performing an economic analysis in the KVV-format of different investment alternatives for improving grid capacity in Finnmark, the northernmost county of Norway. Demand in the area may increase if petroleum is found and develop in the Barents Sea. Besides, improved grid capacity will improve security of supply. We perform quality control (KS) of the Statnett analysis.
- 2015-2016 **Who should transport criminal detainees.**
Ministry of Justice and Public Security
We perform an evaluation and a cost-benefit analysis of who should be given the task of transporting consigned inmates: The police or correctional officers.
- 2015-2016 **Wider economic benefits of four transportation investments.**
Statens vegvesen
Wider economic benefits include productivity gains from external effects and alleviation of second-best disturbance that is not counted in standard cost-benefit analysis. Using our recently developed model of wider economic benefits we calculate the benefits of four transportation infrastructure projects in Norway, in Lofoten, between Molde and Ålesund, between Voss and Bergen, and outside Stavanger.
- 2015-2016 **The impact of price portals in Norway.**
Forbrukerrådet
The consumer board (Forbrukerrådet) in Norway runs three price portals, in financial services, electricity, and dentistry services. We investigate whether the portals have lowered prices, reduced price dispersion and affected competition in other ways, e.g., increased the tendency of consumers to move between contracts.
- 2015 **Environmental costs of freight transport by rail and on sea.**
Statens vegvesen

Freight transport by rail and on sea are thought to be environmentally-friendly means of transportation. But what are in fact the environmental costs of these means? We investigate this question and estimate in some detail the environmental costs of freight transport by rail and on sea in Norway.

2015 **Pros and cons of a price portal for groceries.**

Forbrukerrådet

The idea of a price portal for groceries has been approved by parliament in Norway on the argument that transparent competition will force down prices, but the competition authority fears that the grocery chains will use it to implicitly agree on high prices. We discuss the pros and cons of a price portal. A key question is who has the least information about prices at present, the consumer or the grocery chains.

2015 **Liberalising regulation of property at ports and docks.**

KS

Ports and docks have traditionally been subject to detailed regulation, e.g., conserving how revenue is spent, the size of tariffs compared to expenses etc. Over time the areal requirement of ports have changed and the alternative cost of property has increased. We study the impacts of liberalized regulation that allows for flexible use of property.

2015 **Electronic monitoring of offenders in Norway.**

Ministry of Justice and Public Security

Electronic monitoring is used in Norway for sentences less than four months, and for the final four months of longer sentences. Several other conditions besides length must also be met. We evaluate electronic monitoring in Norway. A cost-benefit analysis is integrated into the evaluation.

2015 **The value of lost load for households in Norway.**

NVE

“Lost load” is electricity not supplied because of interruptions etc. How high is this value? The question is important since NVE uses the value of lost load in its regulation of grid providers. We reassess existing evidence on the value of lost load in Norway and recommend a value to use in the short run, as well as a way forward in the longer run.

2015 **Grid investment in the SKL-region (Haugalandet) in Norway.**

Statnett

Statnett is performing an economic analysis in the KVV-format of different investment alternatives for improving grid capacity in the SKL area (“Haugalandet”) in Western Norway. Demand in the area is increasing. Besides improved grid capacity will improve security of supply. We perform quality control (KS) of the Statnett analysis.

2015 **Tromsø museum.**

Ministry of Finance and Ministry of Culture

Tromsø museum needs a new building and possibly a new location. Using economic analysis we evaluate different proposals for location and type of a new building. The project is part of the quality assurance regime (KS1).

2014-2015 **Replacing Coastal Guard vessels.**

Ministry of Finance and Ministry of Defence

Coastal Guard vessels of the Nordkapp category are nearing their retirement age. We study options for replacement. The project is part of the quality assurance regime (KS1).

2014 **Cost-benefit evaluation of NADAG.**

Statens vegvesen

NADAG is a database for information about soil quality and underground features, based on drillings. We analyze costs and benefits of establishing NADAG as opposed to maintaining bits and pieces of this information in different institutions.

- 2014 **The railway investment Ringeriksbanen and highway investment E16 Hønefoss.**
Jernbaneverket
We evaluate benefits and costs of the railway investment Ringeriksbanen separately and jointly with the highway investment E16 Hønefoss. Responsible for evaluation of private-public partnership models for finance and operation.
- 2014 **Evaluation of the retirement age in Norway.**
Ministry of Labour and Social Affairs
The legal pension scheme in Norway has kinks at 62 years, 67 years and 75 years. The question in this project is whether or not these kinks should change over time as the expected length of life changes. If so, how often and according to which rule should the kinks change?
- 2014 **Evaluation of the sex purchase act.**
Ministry of Justice and Public Security
Purchase of sex is prohibited by law in Norway. We evaluate impacts of the law. Our focus is the development of the sex market and the well-being of women that carry out prostitution.
- 2014 **Quality of price index for housing services.**
Norwegian Consumer Council (Forbrukerrådet)
The quality of the price index for housing services has been questioned. We examine its quality and representativeness in measuring housing price changes in Norway.
- 2013-2014 **Socio-economic impacts of social entrepreneurship (philanthropy).**
Ferd
The idea behind Ferd Social Entrepreneurs is to treat measures to improve the conditions of marginalized groups as investments that provide a return to society. The return is part social and intangible, part economic. We assess and measure the socio-economic return to Ferd social investments (philanthropy), the Social Entrepreneurs.
- 2013-2014 **Further economic analysis of upgrading the electricity grid in the greater Oslo area.**
Statnett
Statnett is contemplating an investment to upgrade the electricity grid in the greater Oslo area. We perform an economic analysis of alternative routes for the grid. Environmental values, housing values and costs are prominent factors of the analysis.
- 2013-2014 **Environmental impacts of the APEC list of environmental goods.**
Ministry of Foreign Affairs
In WTO-negotiations certain lists are circulated with names and categories (HS-codes) of goods that are suggested to have positive environmental qualities and hence are candidates for tariff reductions. One such list is the APEC list. We assess the environmental properties of the goods on this list.
- 2013-2014 **Pricing of geospatial data.**
Ministry of Local Government and Modernization

Geospatial data are examples of “public goods” – they cost little or anything to disseminate once they have been collected. In the past geospatial data in Norway has had a complicated pricing structure. We evaluate costs and benefits of making them accessible for free.

- 2013 **Incarnation capacity in Southern Norway.**
Ministry of Finance and Ministry of Justice and Public Security
 Several prisons in Southern Norway date from the 1860's, and others are worn down. The prison population is increasing. Using economic analysis we evaluate different proposals for replacing and increasing capacity in the region. The project is part of the quality assurance regime (KS1).
- 2013 **2022 Winter Olympics in Oslo.**
Oslo Municipality
 As part of the quality assurance regime (KS) of Oslo Municipality we evaluate the proposal to ask for a government guarantee to underwrite an application for 2022 Winter Olympics in Oslo. With Ernst&Young.
- 2013 **Pricing models for the services of Kartverket (Map Authority).**
Kartverket
 Kartverket is required to generate revenue of its services. The current pricing model is complicated. We develop a pricing model that is transparent and consistent with economic principles. With Oeconomica.
- 2013 **Economic analysis of upgrading the electricity grid in the greater Oslo area.**
Statnett
 Statnett is contemplating an investment to upgrade the electricity grid in the greater Oslo area. There are several conceptual alternatives including the choice of a 300 kV grid versus one of 420 kV. We perform an economic analysis and uncertainty analysis of the alternatives.
- 2013 **Economic analysis of electricity grid cables to Germany and Great Britain.**
Statnett
 Statnett is contemplating a major investment in cables under the sea, one to Germany and another to Great Britain. We perform quality assurance of the economic analysis of the investment.
- 2012-2014 **Radar and sensor technologies for defence air space surveillance.**
Ministry of Finance and Ministry of Defence
 As part of the quality assurance regime (KS1) we analyze the costs and benefits of different conceptual choices for radar and sensor technologies for defence air space surveillance.
- 2012-2013 **User fees and taxes in air transport.**
Ministry of Transport
 The Civil Aviation Authority of Norway charges user fees (gebyrer) for its individual-goods services. An alternative system would consist of sectoral excise taxes (sektoravgift). We discuss economic pros and cons of these two systems, as well as legal aspects.
- 2012-2013 **Impacts of Norwegian foreign trade, investment and development assistance on global ecosystems.**
Ministry of Environment

As a small open economy Norwegian foreign trade and investment as well as development assistance are likely to impact foreign (global) ecosystems. We describe some characteristics of the impacts. For instance, the extensive investment in international petroleum exploration is something that sets Norway apart from other countries.

- 2012 **Costs of domestic violence.**
Ministry of Justice and Public Security
The socio-economic costs of domestic violence consist of resources used for prevention and treatment of domestic violence, and the (welfare) cost to affected individuals and their families. We estimate the costs of domestic violence in Norway.
- 2012 **Economic analysis of higher transmission capacity in Western Norway.**
Statnett
We analyse benefits and costs of an investment project to strengthen transmission capacity in Western Norway.
- 2012 **The economic significance of private equity firms.**
Hercules Capital
We investigate the economic significance of the private equity business in Norway.
- 2012 **Using the great recession for greening the budgets.**
Nordic Council of Ministers
The great recession has increased public sector deficits and led to a search for additional revenue. We ask whether countries have made use of the great recession for greening the budgets in the form of lower subsidies to dirty goods, and higher fees.
- 2012 **The market price of household waste for incineration.**
A law firm
We estimate a market price to use for household waste for incineration. We also provide economic reasoning behind the estimate.
- 2012 **National capacity for tugging boats.**
Ministry of Finance and Ministry of Fisheries and Coastal Affairs
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.
- 2011-2012 **Urban planning of transport and environment in Kristiansand, Norway.**
Ministry of Finance and Ministry of Transport
As part of the quality assurance regime (KS1) we analyze the costs and benefits of different transport scenarios in Kristiansand, a medium sized town in Norway.
- 2011-2012 **Carbon leakage.**
Ministry of Environment and Ministry of Trade and Industry
Two projects conducted independently to evaluate the extent of carbon leakage if Norway pursues unilateral carbon pricing and/or a different price of electricity to industry compared to other countries.
- 2011-2012 **Location of bases for fighter planes.**
Ministry of Finance and Ministry of Defence
As part of the quality assurance regime (KS1) we analyze costs and benefits of different alternatives for locating the base or bases for fighter planes.
- 2011 **User fees as an element of the Norwegian system of taxation.**
The confederation of Norwegian enterprise

There is little knowledge of the use of user fees in Norway. We estimate the revenue from user fees on Norwegian enterprises, and compare user fees in nine sectors to the actual costs of the services that the user fees are to cover. Implications of the current system, e.g., for cost control are examined.

2011 **Railway investment in from Porsgrunn to Larvik – an economic analysis.**

Ministry of Transport and Ministry of Finance

The government of Norway is contemplating a major improvement in the railway line between the cities of Porsgrunn and Larvik, where the current line dates from 1881. The new route will shorten travel distances considerably, but will need tunnels and bridges to do so. As part of the KS regime of quality control we conduct a cost-benefit analysis of single-track and double track alternatives.

2010-2011 **Management of the submarine U864.**

The Norwegian Coastal Administration.

The submarine U864, which was torpedoed in World War II, may contain mercury. Lifting it, or covering it on the seabed are two strategies for handling the environmental risk. The project evaluated the costs and benefits of these strategies as part of a “Konseptvalgutredning” (Concept Choice Report). With Holte Consulting.

2010-2011 **Planting Sitka pine along the coast of Norway – an economic analysis.**

The Norwegian association for forest management (Skogselskapet)

We examine the case for planting pine trees of the Sitka variety in limited areas along the coast of Norway. Economic benefits are easily dwarfed by the climate benefits of these trees. Sitka on just 100,000 ha goes a long way towards meeting Norway’s climate commitments for the next decade.

2010 **A cost benefit analysis of petroleum exploration outside Lofoten.**

Ministry of Environment

As an input to a revised management plan for the area, Vista Analysis is asked to conduct a cost-benefit analysis of petroleum exploration and production in the ocean outside Lofoten. Responsible for probability assessments.

2010 **Tertiary industry in a sustainable economy.**

Association of trade and services

Sustainable development, e.g., 80% reduction of CO₂ by 2050, will change society and the economy. What is the role of the tertiary industry in this? How will it change? What are the opportunities, where are the threats? The project is reported in a presentation at the annual conference of the association, and a report.

2010 **Evaluation of KS1.**

Ministry of Transport

For some time, Norway has had a policy of subjecting large public projects to external quality control. The project evaluates whether this policy has been a success with respect to projects in the transport sector.

2010 **Standby helicopters – an economic analysis.**

Ministry of Justice and Ministry of Finance

As part of the KS regime of quality control the project asked what are the costs and benefits of purchasing a new float of standby helicopters for rescue operations at sea in Norway.

2010 **An economic analysis of impacts of climate change in Norway.**

Government Commission, vulnerability to climate change

Climate change may lead to a wetter and warmer country in the second half of the century. We study economic impacts of climate change. Focus is on eight sectors, including primary industries, tourism, transport, insurance, electricity production, sewage, building capital and health. We also analyze welfare implications and distributional issues.

- 2009 **EURO 2016 – an economic analysis.**
Ministry of Culture and Church Affairs, and Ministry of Finance
As part of the government regime for quality control of large public projects we provide advice and quality control of the proposal to bid for co-hosting EURO 2016 in Norway. Project manager for the economic analysis and cost-benefit evaluation.
- 2009 **Communication satellite for defense purposes.**
Ministry of Defense, Ministry of Trade and Industry, and Ministry of Finance
As part of the government regime for quality control of large public projects we provide advice and quality control of a suggested industrial solution for a communication satellite with defense purposes. Project manager for the economic analysis and cost-benefit evaluation.
- 2009 **Climate impacts in Norway**
Government Commission, vulnerability to climate change
The project, conducted jointly between Econ Pöyry, CICERO and Vestlandsforskning, surveys research on the impacts of climate change in Norway.
- 2008 **Greenhouse gas consequences of the government budget and macroeconomic policy**
Norwegian Pollution Control Authority
There is an interest in establishing the consequences for Norwegian greenhouse gas emissions of the annual government budget (short run) and macroeconomic policy along with economic drivers (long run). We analyse how useful the available macroeconomic models are for this purpose, and suggest improvements.
- 2008 **Concept note for clean energy fund.**
Norfund.
We analyse the potential for a clean energy fund in a Norwegian context.
- 2008 **Value creation in horse-racing.**
Det norske travselskap
We document the value added of Norwegian horse racing. Viewing the sector as a consolidated entity reveals a much higher value added than is commonly acknowledged.
- 2008 **ICT common parts in the public sector.**
Ministry of government administration and reform
Common parts in ICT are often not used to their best potential in the public sector, leading to parallel development costs and unnecessary duplications. We suggest a typology and a cost-benefit framework for identifying ICT components that are common parts.
- 2008 **Further development of Norwegian continental shelf.**
Ministry of trade and industry
The project analyses the state of competition on the Norwegian continental shelf and discusses suggestions for improving competition.
- 2008 **Climate risks in telecom infrastructure.**

- Telenor*
Climate change is likely to inflict damage and costs on telecom infrastructure. We study and evaluate the risks that climate change poses to the infrastructure of Telenor in countries where they operate.
- 2008 **Energy strategy Telenor**
Telenor
Assistance to Telenor, the Norwegian telecom company, in developing their energy strategy.
- 2008 **Environmental strategy Petoro**
Petoro
Assistance to Petoro, the Norwegian petroleum company, in developing their environmental strategy.
- 2008 **Sør-Østerdalen as Green Economic Zone?**
Regionrådet for Sør-Østerdalen
Sør-Østerdalen, an inland region of Norway, has large forestry resources and some hydro resources, which provides a basis for renewable energy production. The region is interested in streamlining existing energy stimuli in order to establish what is called a Green Economic Zone in Sør-Østerdalen.
- 2007 **The impact of globalization on Norwegian industrial structure.**
Ministry of Trade and Industry Norway
There is interest in analyzing what effect globalization will have on Norwegian industrial structure over the coming 20 years. Using a value-chain approach this study finds that the main driver of Norwegian structural change actually is demographics rather than globalization. However, globalization is important for selected industries.
- 2007 **Norwegian interests in a globalized world.**
Ministry of Foreign Affairs Norway
As part of the Ministry's work on Norwegian interests in a globalized world, the Ministry has commissioned a report of factual information on Norway's position. The work refers to the following claims: Norway is small and rich, a vulnerable territory, a heterogenous and liberal society, a peace-minded and charitable society.
- 2007 **Biofuels – status and prospects.**
Ministry of Foreign Affairs Norway
The study surveys the literature on biofuels in order to answer three questions: What is the net impact on CO₂ of different technologies for producing biofuels; what is the net impact on food security; and what is possible impact on biodiversity. The study also considers how biofuels is considered in the context of WTO.
- 2005-2008 **Investing in fighter planes in Norway – an economic analysis.**
Ministry of Defense and Ministry of Finance Norway
A process to advice on an economic analysis for decisions carried out by the Ministry of Defense, and an independent cost-benefit analysis of the fighter plane investment alternatives. Phase I and II. Part of the government regime for quality control of large public projects.
- 2005 **Social health costs of accidents and work related illness on the 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.
- 2005 **Evaluating the Overall Trade Restrictiveness Index.**
Norwegian Ministry of Foreign Affairs.
The Overall Trade Restrictiveness Index (OTRI) is developed by the World Bank to assess tariff and non-tariff barriers to trade. Expert advice on methodological aspects of the index in relation to Norway's position in the index, was provided.
- 2005 **Drivers behind development of environmental technology.**
Norwegian Pollution Control Authority.
A study to assess the drivers behind the development of environmental technology. Links to public policy instruments emphasized.
- 2005 **The role of Norwegian power sector competence in development cooperation. NORAD.**
Member of an expert group to discuss the issue and put forward recommendations.
- 2004 **Analyzing PPP indices for education expenses in OECD-countries.**
Norwegian Ministry of Research and Education.
An analysis of whether PPP-indices gives a good indication of price differences for education across OECD-countries. Discusses the handling of quality of services in particular. Illustrates consequences of possible index choices.
- 2004 **Analysing the development index Commitment to Development.**
Norwegian Ministry of Foreign Affairs.
A memo discussing the methodology behind the development index Commitment to Development, with particular emphasis on what affects Norway's position on the index.
- 2003 **Evaluation of the "Lisboa indicators" – relevance for Norway?**
Ministry of Industry and Trade.
An evaluation of the Lisboa indicators developed by EU for benchmarking economic performance and industrial policy across countries. Their relevance for Norway is illustrated in text and examples.
- 2003 **External effects of maintaining a company headquarter in Norway.**
Law firms BAHR and TKGL.
A study to evaluate the claim that the location of company headquarters carry positive effects to society that are external to the company (external effects). The evaluation is based on empirical evidence from the literature.
- 2003 **The wealth tax: Impacts on non-listed family firms.**
Norwegian Employers' Association and Norwegian Shipowners' Association.
A project to discuss how the Norwegian wealth tax currently affects non-listed family firms. The project also discusses how a recent proposal to change the basis for the wealth tax affects non-listed family firms.
- 2002-2003 **Benefits of ICT investments in the Norwegian Health Sector.**
Norwegian Agency for Health and Social Issues.
A project to discuss the benefits of ICT investments in the central Norwegian Health Sector. It discusses data availability and presents tentative quantitative estimates of benefits.
- 2002 **Best in what? Benchmarking of Norwegian Industrial Policy.**

- Norwegian Shipowners' Association.*
A report commenting on a recent government commission that suggested indicators for benchmarking Norwegian Industrial Policy. Report suggested streamlining Norwegian criteria with Lisboa indicators.
- 2002 **User fees in the health sector in relation to national priorities for allocation of health services.**
Norwegian Agency for Health and Social Issues.
A memo discussing how incentives implied by user fees interact with national priorities for allocating health services.
- 2002 **The petroleum tax – a tax on human capital?**
The Petroleum Industry Association.
A project discussing to what extent petroleum revenue is the return to research and development as opposed to pure rent. To the extent that petroleum revenue is a return to research and development it is also the return to the human capital creating research and development outcomes. In this perspective a tax on petroleum revenue is a tax on the return to human capital, as opposed to being a tax of pure rent. Text and empirical illustrations.
- 2002 **The Norwegian wealth tax: Impacts on savings, investments and ownership.**
Norwegian Employers' Association.
A project discussing what are the impacts of the Norwegian wealth tax in its present design. Results show that the present tax amounts to a highly non-uniform tax on capital.
- 2001 **A tax system with a difference.**
Norwegian investment forum
A study of an alternative system of capital income taxation. The system resembles a consumption tax, but with some adjustments. ECON investigated the economic efficiency properties of the system.
- 2000-2001 **The design of the tax system in Norway considering increasing international mobility.**
Norwegian Shipowners' Association.
A project discussing how the fact that a) goods and b) factors are internationally mobile should influence the taxation of goods and factors in Norway. Particular emphasis is put on capital mobility and capital taxation, but labour mobility is also assessed.
- 2000 **Advice on criteria for the CDM mechanism.**
Ministry of Environment.
Advice on improvements in the text on CDM to the COP-meeting, for the benefit of Norwegian suggestions to the text.
- 1999 **Positive effects of small upstream companies in the Norwegian Continental Shelf.**
Pelican
- 1999 **Strategic Climate Change Policy Evaluation.**
Vattenfall
- 1999 **Assessing the cost of accidents on the Norwegian Continental Shelf.**
The Norwegian Petroleum Directorate
- 1999 **Strategic input to a major Norwegian law firm.**
- 1998 **Evaluation of a proposal to introduce beer and softdrink cans in Norway.**

Norsk Resirk.

- 1997-1999 **Integration of the North-European electricity markets: Consequences for efficiency and the environment.**
Norwegian Research Council – SAMRAM
- 1997 **Evaluation of a proposal to introduce emission tax on emission quotas.**
The State Pollution Control Authority of Norway.
- 1996-1997 **Environmental costs of plastic waste for incineration or Landfills.**
Norwegian Research Council – MILFOR
- 1996-1997 **Evaluation of an emission fee for incinerators.**
The Ministry of Environment
- 1995-1996 **Environmental costs of different components of waste.**
Norwegian Research Council – within the programme «Environmental policy measures»
- 1995-1996 **Migration of polluting technologies.**
Nordic Council of Ministers

Projects with a focus on theory, methods and tools

- 2023 **Use of socio-economic analysis in Statnett's area plans**
Statnett
In the area plans, Statnett presents its grid development plans in a region. We discuss how cost-benefit analysis can be used to improve the area plans.
- 2022 **Lifetime in cost-benefit analysis of transport investments to new NTP**
Transportetatenes samfunnsøkonomigruppe
We analyse the lifetime that the transport agencies should use as a basis for the analysis of projects to be assessed in the new NTP.
- 2021 **Geographical distributional effects of transport investments**
The Norwegian Railway Directorate and the Transport Agencies' Methodology Group
We develop a calculation model with associated map presentation that geographically distributes the benefits and costs of transport investments. The model calculates the distribution of discounted net benefits, or alternatively annual benefits and distributions among inhabitants per municipality or alternatively housing and labour market region or county. It also calculates individual components on the cost and benefit side.
- 2021 **Model-based assessment of municipal integration in Rogaland**
County Governor of Rogaland
We develop a model for estimating the economic consequences of closer economic integration between the municipalities, and apply the model to Rogaland.
- 2020- **Development of the Panda model system**
Panda analysis
In this framework agreement, we advise the Panda analysis network on issues related to further development of the regional economic model system Panda.
- 2020-22 **Household costs and disadvantages of power outages inside and outside the home**
Statnett SF

- We investigate the impact on households of a major power outage where important societal functions such as transport, grid services and payment terminals are disconnected. We find that the willingness to pay to avoid a major power outage is approximately 50 per cent higher than the willingness to pay to avoid power outages only at home. Statnett should take this into account when planning security of supply.
- 2020 **Lifetime in economic analysis – a guideline**
Nye veier/Transportetatenes metodegruppe
 In practical cost-benefit analysis the lifetime of a project is an important, yet opaque topic. We develop a guideline for how lifetime should be approached in economic analysis.
- 2020 **The long-term shadow price of CO₂, transport policy instruments and emissions**
Nye veier
 We analyze the long-term shadow price of CO₂, transport policy instruments and projections for emissions in the sector.
- 2019-2022 **Direct worth versus willingness to pay for the value of lost load**
CREE/Research Council of Norway
 Previous estimates indicate that the cost people incur when adapting to lost load is higher than their stated willingness to pay. We investigate the causes of this phenomenon.
- 2019-2020 **The value of time in cost-benefit analysis of transport projects**
Nye veier
 We review recent estimates of the value of time to be used in cost-benefit transport evaluations in Norway.
- 2019-2020 **Best practice in cost-benefit analysis**
NTNU Concept Programme
 We survey guidance documents for applied cost-benefit analysis in Norway, and analyses conducted in the Quality Assurance Scheme (KVU-KS) of the Ministry of Finance. On this basis we provide recommendations for best practice.
- 2019 **Ranking and prioritizing road transport investment projects**
Nye veier AS (New roads AS)
 Traditionally, Nye veier ranks projects based on monetized benefits compared to public sector costs. This ranking is challenged by projects that parliament supports despite very low monetized benefits compared to costs. We develop a method for making priorities in this situation and apply it to the project E6 Kvæangfjellet.
- 2018 **Benefit management (nytttestyring)**
NTNU Concept Programme
 We utilize experience from Bretton Woods institutions, and from the UK, to develop a framework for benefit management in Norway, and apply the concept on four public investment projects in Norway.
- 2018- **Noreg2.0: multi-regional computable general equilibrium model**
Norwegian Resesarch Council (Norges forskningsråd) DEMOS
 This ten-year project 2018-2028 gradually develops a multi-regional computable general equilibrium model (Noreg2.0) of Norway. Annual economic projections and frequent outreach and dissemination are also important. With TØI, Statistics Norway and Menon Economics.
- 2017 **Bottom-up and top-down analysis for climate mitigation.**
Ministry of Finance and Ministry of Climate and Environment

The ministries asked for a comparison of bottom-up and top-down models of climate mitigation, and an assessment of the relation between economic costs of options and the dimension of the associated policy instruments.

- 2016- **Transport investments and multiple externalities.**
Norwegian Research Council (Norges forskningsråd) TRANSPORT 2025
 The project develops an analytical framework and modelling tools for analyzing the interaction between positive and negative externalities in terms of agglomeration, environmental pressures, congestion etc. in the transport system. We also develop an improved analytical model for effective density and agglomeration that is suitable for econometric estimation.
- 2016-2018 **Estimating the value of lost load for Norwegian households**
NVE and Statnett
 The value of lost load is an important part of Norwegian regulation of electricity grid entities. In this project, which follows on a feasibility study in 15, we use contingent valuation techniques to estimate the willingness to pay for recovering lost load among households.
- 2015-2022 **NORDICWELFAIR.**
NordForsk
 The purpose of this research project is to develop improved estimates of the health damage of air pollution in the Nordic countries. Specifically, the research studies the components of small particles and hopes to develop individual damage estimates for each component, something which has not been done before. Vista is responsible for economic analysis.
- 2015 **The treatment of exchange rates in economic analysis.**
Statnett
 The rates of exchange matter a great deal for the estimated net present values in many applied cost-benefit analyses. Yet they are quite volatile. Little guidance on how to treat the rates of exchange is available. We provide such guidance.
- 2015 **Discount rates for grid investments to supply new renewable energy.**
Statnett.
 Quality control of a document presenting guidelines in Statnett for grid investments to supply new renewable energy. Includes independent analysis and calculations.
- 2013 **Economic model for Norway and Northern Norway.**
Ministry of Industry and Trade.
 We develop a CGE type economic model for Norway and a regional dispersion model for Northern Norway. Compared to other Norwegian GGE models it has a regional dimension. Compared to other regional models impacts are embedded in, and constrained by nationwide supply constraints. The project is conducted jointly with the economic consultancy Menon.
- 2012-2014 **Handbook in economic analysis of electricity grid investment.**
Statnett
 Based on general guidebooks in economic analysis we develop a handbook specifically targeted at electricity grid investments.
- 2012 **Norwegian economic research into policies for innovation.**
Norwegian Research Council RENERGI programme

- The project reviews the contributions of Norwegian research to a vibrant research field in economics, the endogenization of technology. Specifically we describe research on policies to encourage new renewable energy, energy savings and carbon reductions.
- 2011-2012 **The treatment of systematic risk in cost-benefit analyses in Norway.**
Concept programme, NTNU.
 Guidelines for cost-benefit analyses in Norway advises to treat risk by means of certainty equivalents that correct for systematic risk. However, there is little knowledge and no guidelines on how systematic risk is to be determined. The project determines systematic risk of major elements of cost and willingness to pay in generic projects.
- 2011 **Determination of life time in cost-benefit analyses in Norway.**
The Norwegian Coastal Administration
 In applied cost-benefit analysis the choice of life time is often made arbitrary. Norwegian practice in the transport sector is 25 years economic life time, with another 15 years technical life time. Other sectors have other rules. The project makes an argument for a coherent approach based on the principles of economics.
- 2009 **How to face the risk of climate change in the context of climate adaptation.**
Government Commission, vulnerability to climate change
 Early adaptation to climate change brings costs that are certain and benefits that are uncertain. How should these be balanced? The project discusses this problem and bridges principles with practical rules of behaviour.
- 2006-2010 **Discount rates for energy investments.**
Norwegian Research Council with Enova, Statnett, Statoil and SSØ
 A three year research project to analyse the risk-return tradeoff for energy investments and build a CAPM-based decision tool for making better investment decisions.
- 2006-2007 **The relevance of social and economic research on energy matters.**
Norwegian Research Council.
 A project to discuss the relevance of social and economic research on energy matters, emphasizing the commercial potential for social and economic research, and secondly the linkages between such research and energy efficiency improvements on the ground.
- 2004 **Economic research on the impact of research and innovation on productivity and growth. What do we know?**
Norwegian Ministry of Research and Education.
 A workshop for the Deputy Minister explaining what the economics profession knows about this topic.
- 2004 **Discount rates for power transmission investments.**
Statnett (the Norwegian power grid operator).
 A study analysing how the discount rate in practice should be adjusted for risk. Uses an applied structural model of the Nordic power market to analyze the nature of systematic risk facing a transmission line.
- 2003-2005 **The precautionary principle: An economic interpretation.**
Norwegian Research Council.

A project to discuss an economic interpretation of the precautionary principle. The principle is interpreted as a risk management rule of thumb derived from the CAPM-model. The project consists of sub-projects describing a theoretical framework characterized by endogenous risk, and applying the principle to renewable energy investments.

- 2001 **How to value petroleum wealth.**
Ministry of Energy
Petroleum wealth is measured as the expected present value of the revenue stream from selling petroleum. At present the risk inherent in the present value is accounted for crudely by the discount rate. We discuss alternative ways of accounting for risk, including the certainty equivalent method.
- 2000-2001 **The treatment of risk in cost-benefit analysis of environmental projects.**
Ministry of Environment
A project discussing how systematic risk should be accounted for in cost-benefit analyses of environmental projects. Empirical evidence on “beta” relevant for environmental projects sought from e.g., the relative performance of green stocks and bonds.
- 2000 **Life-cycle Assessment: An economic perspective.**
Norwegian Research Council.
A research report analysing how economics might shape and improve life-cycle analysis. The welfare economic background for life-cycle analysis is discussed, and the theoretical and practical relation of life-cycle analysis to economic project assessment is analysed.
- 1999-2000 **Increase knowledge on how policy instruments can promote new renewable energy technologies.**
Research Council of Norway
- 1997-1998 **Growth in future relative prices of certain non-market environmental goods and bads.**
The State Pollution Control Authority of Norway
- 1996-1997 **Valuing environmental effects in the long run.**
Norwegian Research Council – MILFOR
- 1992-1995 **Economy and Ecology - tools for a sustainable development.**
Project Manager. Norwegian Research Council
- 1991-1993 **Research Programme on Taxation.**
Norwegian Research Council
Project Manager. Consequences of taxing pure rent and environmental externalities.

Projects in China

- 2023 **An evaluation of institutional cooperation in two development eprojects**
Norad
We are evaluating the two environmental cooperation projects in China "ChiNorBC" and "Sinochem".
- 2016 **Incentivizing local communities for biodiversity conservation.**
Ministry of Environmental Protection, China and Ministry of Foreign Affairs, Norway

Protected areas in China are not always run well. This project is about providing improved incentives and suggesting state of the art practices to China. Vista Analysis is sub-contractor to the Environmental Directorate.

- 2015 **“China Council” Environmental Risk.**
CCICED
 China Council for International Cooperation on Environment and Development (CCICED) has initiated a Special Study on environmental risk. As an international expert I am a member of the editorial group.
- 2014-2015 **China’s climate policy reform and corporate strategy: A business case for change.**
China Carbon Forum Limited
 The purpose of this project is to understand the barriers and drivers shaping corporate behavior along the supply chain in China in terms of greenhouse gas emission reduction and environmental performance. A survey is carried out. Advisor.
- 2013-2017 **Cost-effective prevention and control of environmental risk in China.**
Ministry of Environmental Protection, China and Ministry of Foreign Affairs, Norway
 In the 12th five year plan (2012-16) it is an important priority for China’s environmental authorities to reduce discharges of environmental hazards within a balanced framework of cost-effective reduction of environmental risk. This major cooperative project between Norway and China develops capacity in China’s provinces for managing environmental risks in a comprehensive and cost-effective fashion.
- 2013-2017 **Urban Atmospheric Multi-Pollutant Prevention and Control in China.**
Ministry of Environmental Protection, China and Ministry of Foreign Affairs, Norway
 Increasingly, air pollution in China is regional in source and comprehensive in type, covering several pollutions. China is just starting to struggle with these issues. This major cooperation project between Norway and China develops capacity for handling regional multi-pollutant emissions. Vista Analysis is sub-contractor to the Environmental Directorate (formerly Klif).
- 2011 **A national plan for reducing particulate matter pollution in China.**
The World Bank
 Although air quality in Chinese cities is improving the situation is volatile and the level of pollution is still high. China’s government has asked the World Bank for assistance in developing a plan that allows all of China’s 660 cities to come into compliance with so-called class II air quality. The plan is based on cost-effective pollution control. Advisor.
- 2010-2013 **Diffusion of climate technologies.**
Norwegian Research Council
 We study the diffusion of climate technologies, with a particular focus on diffusion of CCS from Norway to China. This question has a demand side, in terms of Chinese demand for CCS and Norwegian technology for CCS. Then it has a supply side in terms of Norwegian supply of CCS technology. The first phase of the project studies the demand side, followed by the supply side. With Statistics Norway and Development Research Center of State Council, China.
- 2010-2013 **Towards a low carbon energy future: Norway’s policy opportunities and constraints in an international comparative perspective.**
Norwegian Research Council

How are stakeholders in China evaluating costs and benefits of promoting new renewable energy? We suggest that Chinese stakeholders view this question differently, just like the situation in the rest of the world. The project aims to map stakeholders and positions. With CICERO and Chinese Academy of Social Science, China.

- 2010-2011 **Environmental assessment of a Free Trade Agreement between China and Norway.**
Ministry of Environment.
Environmental assessments of free trade agreements are fairly common internationally, but so far rare in Norway. We develop a methodology and conduct an analysis of a potential free trade agreement with China. With FNI.
- 2009-2012 **Conditions for change in international climate policy: The role of China, the US and the EU.**
Norwegian Research Council
Which are the driving forces that condition for change in the climate policy of China, the US and the EU? Which forces are of a preserving nature? How do the major players interact and to what extent are driving forces influencing each other? These are key questions of this research project led by FNI.
- 2009-2011 **Indoor air pollution: Implications for public health and society of promoting clean household fuels in China.**
Norwegian Research Council
This large research project lead by CICERO has components on measuring health status among rural poor in Guizhou Province, China; relating health status to indoor air pollution, and evaluating the impact of interventions in the form of clean stoves. Our contribution is on the cost-effect and cost-benefit of clean stoves.
- 2009 **Call for a green China.**
The World Bank
Four major Chinese cities were treated to a series of performances and conferences designed to raise awareness about these issues among new audiences in an innovative, multimedia format. Our contribution was to lecture the provincial audiences about the dangers and costs of water pollution in the provinces. See <http://www.worldbank.org/>
- 2008-2011 **Provincial five-year environmental plans**
Norwegian embassy Beijing/Ministry of Foreign Affairs
With Chinese institute Chinese Academy of Environmental Planning we analyse and advise on the effectiveness of current provincial five-year environmental plans. Based on best practice from Western countries and the principles of cost-benefit analysis we provide policy recommendations for improving the plans, turning them into effective tools for environmental management.
- 2008-2010 **China climate policy case study.**
Norwegian Research Council and Statoil
The study analyses Chinese climate policy from a bottom up perspective. What is the likely development of Chinese climate policy? How does the game between internal actors play out? How is it influenced by outside events such as new information on costs and benefits of climate change mitigation?
- 2008 **Environmental consequences of Sino-Norwegian Free Trade Agreement**
Ministry of Trade and Industry

A Sino-Norwegian FTA is likely to have consequences for the environment. We analyse impacts from three angles: One is a macroeconomic angle, using a CGE model to demonstrate macro impacts. The other is a microeconomic angle, using a life cycle perspective to work out impacts of increased trade in fertilizer and cotton textiles. The third is a technology angle, discussing barriers and opportunities for Norwegian environmental technology vendors.

- 2008 **China 2020**
Norwegian Consulate Guangzhou, China/Ministry of Foreign Affairs
 A scenario process developing three scenarios for China in 2020 along political, economic and environmental/energy dimensions.
- 2007-2008 **Environment and conflict.**
Ministry of Foreign Affairs, Norway
 This is a study of how environmental deterioration conditions for conflict, and how assistance in the building of peace may sever the links between environment and conflict. The study pays particular attention to the links between conflict and climate change. Case studies are carried out in Burkina Faso, China, Nepal and Sudan.
- 2007-2008 **Benefits and costs to China of a climate commitment.**
Ministry of Foreign Affairs Norway.
 Continuing our advisory services on Chinese climate policy options the 2007-2008 period covers a study of triangular benefits (CO₂-mercury-health), a study of rural energy use and a macroeconomic study of how alternative designs of a climate might affect China. Initiating a cooperation with the Counselors' Office of the State Council we will organize a Forum on energy, climate and environment. Scientific meetings with Chinese and international partners will also be held.
- 2006-2009 **Capacity building for reducing mercury pollution in China.**
State Environmental Protection Administration of China (SEPA) and Ministry of Foreign Affairs Norway
 Using Guizhou Province as a case study the project asks a) how large are current and projected emissions of mercury from different sources, b) what are deposition levels, c) which mitigation options are available, d) what are their costs, e) what are their effect in terms of mercury reductions and f) what are their co-benefits. The project is conducted jointly with Tsinghua University of China and Norwegian Institute of Water Quality Research (NIVA) of Norway.
- 2005-2006 **Advice on Green National Accounts in China.**
State Environmental Protection Administration, China
 A process to advice on the design of Green National Accounts in China. Advice on economic valuation in particular.
- 2005-2006 **Advisory services on climate policy in China in the second commitment period.**
Ministry of Foreign Affairs Norway
 Continuing our advisory services on Chinese climate policy options in the second commitment period the 2005-2006 period covers a project to estimate in a macroeconomic CGE model the cost to China of "co-control", that is simultaneous control of SO₂ and CO₂ (and PM₁₀ and CO₂). The project also includes annual workshops.
- 2005 **Guidance on developing a Strategic Environmental Assessment in Western China.**
The World Bank.
 Expert advice on the SEA of the Great Western Development Strategy in China. Advice

on conclusions and line of argument in particular.

- 2004 **Managing protected areas in China for biodiversity and poverty alleviation.**
China Council for International Cooperation for Environment and Development.
Expert advice to the Protected Areas Task Force of the China Council. Topic of advice to make sure that linkages between management of protected areas and poverty alleviation are addressed.
- 2004 **Circular Economy: An interpretation.**
The World Bank.
A research note discussing how the concept of Circular economy relates to familiar environmental problems and how it may be tailored into constructive objects of analysis.
- 2003-2004 **Determinants of hardware and software IT industry growth in China and India.**
International Finance Corporation.
A study discussing why the Indian software- and the Chinese hardware industries are successful, but Indian hardware and Chinese software are not. A survey of 320 hardware and software companies in China and India is central to the study.
- 2003-2004 **Advisory services on climate policy in China in the second commitment period.**
Norwegian Ministry of Foreign Affairs.
A network of scientists and policy advisors on climate policy in China, the U.S. and Norway is established to discuss options for Chinese climate policy in the second commitment period. The discussion is facilitated by joint projects and an annual workshop. Topics include cobenefits of climate change mitigation, developing a policy framework for integrated assessment in China, cobenefits of mitigation of indoor air pollution, climate and environmental implications of macroeconomic policy.
- 2003-2005 **Environmental consequences of Chinese WTO-accession.**
Norwegian Research Council.
A study to analyze environmental consequences of Chinese WTO-accession. The study is model based, it employs a computable general equilibrium model of the Chinese economy.
- 2002-2005 **Guidelines for environmental economic guidelines in EIAs.**
NORAD and State Environmental Protection Agency (SEPA).
A project to formulate guidelines for environmental economic indicators and principles of relevance for the EIA. It contains case studies on a power plant (air pollution), wastewater treatment (water pollution), wastewater irrigation (land and soil pollution) and highway construction (land changes), and builds recommendations on these.
- 2001-2005 **Air quality management system for Shanxi Province, China.**
NORAD, Shanxi Environmental Protection Bureau and Norwegian Institute for Air Quality Research.
A project to develop a master plan for air pollution control in Shanxi Province. The plan is based on the Urbair concept for cost-benefit analysis of mitigation options. The concept models impact pathways to benefits. The starting point is scenarios for air quality ECON's contributions lie in cost estimation, valuation impacts and description of the scenarios in the master plan.
- 2000-2007 **An environmental cost model for China.**
World Bank and SEPA.

- A project aiming at estimating aggregate environmental costs, in monetary equivalents, of current economic activity in China. The estimate will revise an existing estimate from 1997. Environmental costs are related to air and water pollution. Impacts on human health, crops, forests, materials etc. are quantified at a provincial and national level.
- 2002-2003 **Advisory services on a Strategic Environmental Assessment of the Great Western Development Drive, China.**
World Bank.
Advice and comments provided on a draft SEA-report written by the Chinese Research Academy of Environmental Science (CRAES) and Beijing Normal University. Project also included a talk at the Conference Reshaping Environmental Assessment Tools for Sustainability in Hong Kong.
- 2001-2002 **Environmental challenges in China: Determinants of success and failure.**
World Bank
A report analysing three environmental problems in China: Phase-out of lead in gasoline has been dealt with successfully; local air pollution of SO₂ and particulates are currently considered with some success; ground level ozone is not dealt with at all. What determines these outcomes? Input to World Development Report 2003.
- 2000-2003 **Co-benefits of climate measures in Shanxi.**
Ministry of Foreign Affairs/Research Council of Norway
A project examining local environmental benefits, so-called co-benefits, of measures directed at reducing carbon emissions in Shanxi Province, China. The measures considered are energy efficiency measures, clean coal measures and clean production measures. The project is documented in several peer-reviewed articles, see next section.
- 2000-2003 **CGE-evaluation of a greenhouse gas restriction for China.**
OECD.
A project asking what a hypothetical greenhouse gas restriction implies for the Chinese economy as a whole. The project emphasises that a greenhouse gas restriction only brings costs, but benefits of better local air quality, which improves public health and increases agricultural yields. The analysis is based on a CGE-model analysis of the impacts of a greenhouse gas restriction on the Chinese economy.
- 2000-2002 **The impact of green taxes on the poor in China.**
China Council.
A book discussing to what extent green taxes or fees hurt the poor in China in a disproportional way. Econometric analysis of national cross-sectional data, rural data from Shaanxi Province and a micro dataset from Guizhou Province. See section on publications.
- 2000 **The Sea of Bohai – prefeasibility study.**
NORAD and NDRC China.
A memo outlining a possible Sino-Norwegian cooperation project on a Master Plan for the Bohai Sea. The memo also considers the interest on the Chinese and Norwegian sides and the likely success ratio of a project of this type. The recommendation to NORAD and NDRC is not to go ahead with the project.
- 1998 **Assessing a Norwegian AIJ project in China.**
Norwegian Ministry of Foreign Affairs
- 1996-1999 **Air Quality Management System in Guangzhou, China.**

NORAD

- 1996-1997 **Towards an Integrated Environmental Management Plan for Chongqing, China**
The China Council on International Co-operation on Environment and Development

Projects in other developing and emerging countries

- 2023 **Evaluation of climate aid**
Norad
We provide an overview of environmental and climate aid objectives over the past eight years, and an overview of how aid has been disbursed during the period. We then assess the relationship between objectives and disbursements.
- 2023 **Macroeconomic policy, climate and environment in Uganda**
Norad/SSB
We assist the Ministry of Finance in Uganda in expanding the Ministry's model apparatus to include climate and environmental impact. Cooperation with Statistics Norway.
- 2023 **Global insurance schemes against climate change impacts**
Norad
We review insurance initiatives against climate change impacts at local (micro) and national/regional (macro) levels. The focus is Sub-Saharan Africa. The study forms the background for Norad/the Ministry of Foreign Affairs' assessment of how to prioritize efforts in this area.
- 2023 **Evaluation of the Climate and Forest Initiative's support to civil society**
Norad
We assist with data collection and report preparation in Norad's evaluation of the Climate and Forest Initiative's support to civil society.
- 2021 **Taxation, development and inequality. A study of Uganda**
Ministry of Foreign Affairs
We study the dynamics of tax revenue and spending priorities. Specifically, we address i) who collects taxes and fees in Uganda? ii) Is tax revenue used in a way that reduces poverty and inequality?
- 2021 **An evaluation of proposals for cooperation with Colombia in aquaculture and fisheries**
Ministry of Foreign Affairs
We evaluate a project for institutional cooperation between Colombia and Norway in aquaculture and fisheries ("Fish for Development").
- 2021 **The long-term macroeconomic performance of Chile, Peru, Brazil, Turkey and India**
Statkraft
We provide advice to Statkraft on the long-term gdp, inflation and exchange rate development of Chile, Peru, Brazil, Turkey and India.
- 2020 **Ukraine: evaluation of a project run by Statens kartverk**
Statens kartverk
Statens kartverk wants a second opinion and evaluation of their cooperation project with Ukrainian authorities on the development of a cadaster.
- 2019-2022 **Uganda petroleum revenue management**

- NORAD – Oil for development*
Scoping studies, training and competence building, and analysis of revenue management in preparation for petroleum exploration and production in Uganda. Emphasis is on macro-economic revenue management including fiscal rules.
- 2018-2019 **Somalia petroleum revenue management**
NORAD – Oil for development
Quality control of scoping studies, training and competence building, and analysis of revenue management in preparation for petroleum exploration and production in Somalia.
- 2018-2019 **Petroleum economics and models – Myanmar**
NORAD – Oil for Development
We organize and facilitate two training courses to improve petroleum revenue management in Myanmar. Course no 1 targets staff at the Ministry of Finance that have very limited knowledge of petroleum economics and management, and teaches basic concepts. Course no 2 targets staff of the Ministry of Energy, the state petroleum company and the Ministry of Finance with advice on how to design petroleum tax and revenue management systems that are transparent and efficient.
- 2016- **Climate adaptation in Vietnam.**
Nordic Development Fund
We analyze incentive schemes for taking up storm resilient housing in Danang, a coastal city of Vietnam. The project is managed by Vista and includes ISET, an NGO in Vietnam, Womens' Union of Danang, and Hue University.
- 2015 **The position of India in geopolitics and international trade.**
Ministry of Foreign Affairs
We analyze the position of India with respect to geopolitics and international trade. The economic and socio-economic developments of recent years are recounted with some emphasis on the heterogeneity of Indian states. On this basis we discuss the geopolitical position of India today, and in the medium term future. Norwegian business interests in India are also categorized.
- 2013 **Analysis and Design of Financial Incentives for Low-Emission Heating Appliances.**
The World Bank
In the past two years more than 100,000 low-emission household stoves have been distributed in Ulaanbaatar, Mongolia, at very subsidized prices. The subsidies need to be reduced. At the same time the Government of Mongolia would like to scale up access to low-emission stoves and include other cities to the scheme. The project analyses appropriate incentives for these stoves and how they can be scaled up and phased out.
- 2011 **Disseminating improved stoves to households in Ulaanbaatar, Mongolia.**
The World Bank
A large number of highly inefficient household stoves contribute to Ulaanbaatar's serious air pollution problems. The Government of Mongolia and the World Bank aim to disseminate more than 150,000 new stoves over a two-three year period. An important question is what combination of subsidies and buy-back schemes that will meet this aim. Advisor.
- 2010 **Liberia baseline study.**
NORAD

Norway is stepping up its assistance to improve electricity coverage in Liberia. For evaluation purposes it is important to benchmark the situation prior to program initiation. This includes, but is not limited to data necessary for an ex post cost benefit evaluation.

- 2009 **The role of developing countries in technology development and transfer**
TERI
Technology development and transfer, in the context of the UNFCCC, has so far been focusing on the role of developed countries. This project however asks what is the role of developing countries in technology development and transfer.
- 2009 **Incentivizing energy transitions in India**
TERI
A project to provide advice on incentives for energy transition in India in the areas of lightning, consumer electronics etc.
- 2009 **India 2020**
Norwegian Ministry of Foreign Affairs
India is facing huge opportunities as well as difficult challenges. At the onset of the Indian election 2009 we take stock of opportunities and challenges, and develop three scenarios for India in 2020 along economic, social, environmental/energy and security dimensions. The scenarios are meant to inform Norway's strategy for cooperation and trade with India.
- 2008-2009 **Co-benefits in India.**
Ministry of Foreign Affairs
We take stock of present knowledge about co-benefits in India. Some research has been done on the topic, but there are large gaps. The project includes a research report and a workshop assembling Indian and Norwegian researchers.
- 2006-2009 **Power sector investment costs in Africa.**
World Bank.
A study to determine power sector demand and least cost expansion plans considering rehabilitation, new generation, transmission and distribution, trade and no-trade, in 42 African countries.
- 2006 **Concept paper on energy security in Africa.**
OECD.
A paper was developed for Africa Summit of G8 countries in Moscow, October 06. The paper discusses motivation for, and preconditions for meeting electricity investment needs in Sub-Saharan Africa. A partnership to develop energy supply and energy security puts demands on donor countries and recipient countries alike.
- 2006 **Cross-border energy trade and the poor.**
UNDP.
A study to estimate the linkages between trade in energy goods and energy services on the one hand, and poverty. Quality controller of whole project, and executive responsibility for China case study, involving a model-based macroeconomic analysis and a field study from a Shanxi Province coal city.
- 2004-2005 **Public Expenditure Review in the rural space.**
The World Bank.

A study examining whether or not public expenditures towards rural regions and the agricultural sector in Mozambique have an appropriate design and reach the poor to a sufficient degree. A household survey in rural areas focusing agricultural extension services is central to the study.

- 2000-2005 **Feasibility study for a Cuban power plant based on sugar residues (bagasse)**
UNDP and Cuban Ministry for Sugar (MINAZ).
 A project to develop a feasibility study of a power plant using the so-called BIG-GTCC gasification technology for biomass combustion. This is the most energy efficient technology currently available. The 17 MW plant is planned for construction in Las Tunas Province of Cuba.
- 2002 **Poverty and environment – proceedings from a workshop.**
Ministry of Foreign Affairs.
 Arranging program and taking notes from an international workshop on behalf of UNEP, sponsored by the Ministry of Foreign Affairs, to discuss the linkages between poverty and environment.
- 1998 **Assessing MACMOD – a macromodel for Tanzania.**
NORAD
- 1993-1994 **Structural adjustment and deforestation in Nicaragua.**
Norwegian Research Council.

Publications

Articles in peer-reviewed journals

- 2023 “Prevent or repair – Experimental evidence from providing incentives for climate resilient housing in Vietnam. *Climate and Development*.
<https://www.tandfonline.com/doi/full/10.1080/17565529.2023.2205375> (with Sofie Waage Skjeflo, Nina Bruvik Westberg, Tuan Huu Tran, Phong Van Giai Tran, Tran Tuan Anh)
- 2023 “Agglomeration benefits and costs of investing in urban transport infrastructure. *Insights into Regional Development*, 5, 1, March.
- 2022 «The cost to households of a large electricity outage». *Energy Economics*.
<https://doi.org/10.1016/j.eneco.2022.106394> (med O. Rosnes, A. Skulstad)
- 2014 “Macroeconomic impacts of carbon capture and storage in China”. *Environmental and Resource Economics*, Vol. **59**, 455-477. (With He Jianwu and Li Shantong)
- 2013 “Upgrading to cleaner household stoves and reducing chronic obstructive pulmonary disease among women in rural China – a cost-benefit analysis”, *Energy for Sustainable Development*, Vol. **17**, 5, 489-496. (With Kristin Aunan, Line W.H. Alnes, Janne Berger, Zeqin Dong, Liying Ma, Heidi E.S. Mestl, Shuxiao Wang and Wei Zhang).
- 2012 “Air pollution reduction during China’s 11th Five-Year Plan period—local implementation and achievements in Shanxi province”, *Environmental Development*, Vol. **4**, 36-53. (With Daisheng Zhang, Kristin Aunan, Hans Martin Seip, Thorjörn Larssen, Haakon Vennemo, Steinar Larssen, Liulei Feng, Caixia Wu and Ruikai Xie)
- 2012 “The cost of providing electricity to Africa”, *Energy Economics*, Vol. **34**, 1318-1328. (With Orvika Rosnes).
- 2011 “The energy intensity target in China’s 11th five-year plan period – local implementation

- and achievements in Shanxi Province”, *Energy Policy*, Vol. **39**, Iss. 7, 4115-4124. (With Daisheng Zhang, Kristin Aunan and Hans Martin Seip)
- 2009 “Benefits and costs to China of three different climate treaties”, *Resource and Energy Economics*, 31:139-160. (With Kristin Aunan, He Jianwu, Hu Tao, Li Shantong).
- 2009 “Environmental pollution in China: Status and trends”, *Review of Environmental Economics and Policy*, Vol. **3**, 2:209-230. (With Kristin Aunan, Henrik Lindhjem, Hans Martin Seip).
- 2008 “Environmental implications of China’s WTO accession”, *Ecological Economics*, 64:893-911. (With Kristin Aunan, He Jianwu, Hu Tao, Li Shantong and Kristin Rypdal).
- 2007 “Environmental impact assessment in China: Problems and prospects”, *Environmental Impact Review*, 27:1-25. (With Henrik Lindhjem, Hu Tao, Ma Zhong, John Magne Skjelvik, Song Guojun, Wu Jian and Zhang Shiqui.)
- 2007 “A portfolio approach to environmental investments: CAPM and endogenous risk”, *Environmental and Resource Economics*, 37:681-695. (With Maria Sandsmark).
- 2007 “Benefits and costs to China of a climate policy”, *Environment and Development Economics*, 12: 471-497. (With Kristin Aunan, Terje Berntsen, David O’Connor, Therese Hindman Persson and Fan Zhai).
- 2006 “Climate change and air policy – measures with co-benefits in China”, *Environmental Science and Technology*, Vol. **40**, 16:4822-4829. (With Kristin Aunan, Fang Jinghua, Hu Tao and Hans Martin Seip).
- 2006 “Domestic environmental benefits of China’s energy related CDM potential”, *Climatic Change*, 75, 1-2:215-239. (With Kristin Aunan, Fang Jinghua, Pernille Holtedahl, Hu Tao and Hans Martin Seip)
- 2005 “Cleaner production as climate investment – integrated assessment in Taiyuan City, China”, *Journal of Cleaner Production*, 13, 57-70. (with Heidi E. Staff Mestl, Kristin Aunan, Fang Jinghua, Hans Martin Seip and John Magne Skjelvik)
- 2004 “Co-benefits of climate policy – lessons learned from a study in Shanxi, China”, *Energy Policy*, Vol. **32**, 4:567-581 (with Kristin Aunan, Jinghua Fang, Kenneth Oye and Hans Martin Seip)
- 2003 “Co-benefits of CO₂-reducing policies in China - a matter of scale?” *Global Environmental Issues*, Vol. **3**, 3:287-305. (With Kristin Aunan, Jinghua Fang. Heidi E. Staff Mestl, David O’Connor, Hans Martin Seip and Fan Zhai.)
- 2002 “A proposed industrial boiler efficiency program in Shanxi; potential CO₂ mitigation, health benefits and associated costs”, *Applied Energy*, Vol. **71**, 4: 275-285 (with Jinghua Fang, Guanghai Li, Kristin Aunan, Hans Martin Seip, Kenneth Oye and Janos M Beer).
- 2001 “Mitigating GHGs in Developing Countries”. *Science*, 293, 23 (with Hans Martin Seip, Kristin Aunan and Jinghua. Fang)
- 2001 “The environmental cost of water pollution in Chongqing, China”. *Environment and Development Economics*, 6:313-333. (With Chang Yongguan and Hans Martin Seip)
- 2001 “Environmental regulation of a power investment in an international market”. *Resource and Energy Economics* 23 (With Arve Halseth).
- 1998 «Environmental drag: Evidence from Norway». *Ecological Economics* 30. (With

- Annegrete Bruvoll and Solveig Glomsrød).
- 1998 "Structural adjustment and deforestation in Nicaragua" *Environment and Development Economics* 4. (With Solveig Glomsrød and Dolores Monge A.)
- 1997 "An applied general equilibrium model with environmental feedback" *Economic Modelling* 14, 1.
- 1996 "The marginal cost of funds in the presence of environmental externalities". *The Scandinavian Journal of Economics* 98, 3. (With Anne Brendemoen)
- 1995 "A General Equilibrium Assessment of a Suggested Reform in Capital Taxation". *Journal of Policy Modelling* 17, 6. (With Erling Holmøy).
- 1994 "Tax Reforms With Sub-Additive and Nested-Additive Preferences" *Economics Letters* 46, 2.
- 1994 "A Climate Treaty and the Norwegian Economy: A CGE Assessment" *The Energy Journal* 15, 1. (With Anne Brendemoen)
- 1993 "Svar til Holtsmark". (Answer to Holtsmark). *Norsk Økonomisk Tidsskrift* 107.
- 1992 "Skatter og avgifter: Hvor stort er allokeringstapet?" (Taxes and subsidies: How large is the deadweight loss?) *Norsk Økonomisk Tidsskrift* 106.
- 1992 "Stabilization of emissions of CO₂: A computable general equilibrium assessment" *Scandinavian Journal of Economics* 94

Books and chapters in books

- 2018 Haakon Vennemo and Kristin Aunan: Air pollution and greenhouse gas emissions in China: An unsustainable situation in search of a solution. In Robert Brinkmann and Sandra Garren (eds), *The Palgrave Handbook of Sustainability*. Palgrave MacMillan
- 2017 Jun Bi, George Greene, Haakon Vennemo et al.: China's development and environmental risk management. In Roger E. Kasperson (ed.), *Risk Conundrums: Solving Unsolvable Problems*. Taylor & Francis.
- 2014 Annegrete Bruvoll and Haakon Vennemo: Reform of environmentally harmful subsidies: Distributional issues. In F.H. Oosterhuis and P ten Brink (eds.), *Paying the Polluter. Environmentally Harmful Subsidies and Their Reform*. Edward Elgar.
- 2012 Haakon Vennemo and Xuetao Zhao (eds): *Application of SEA and CBA methodologies in environmental planning*. (In Chinese). China Environmental Science Press.
- 2012 Haakon Vennemo: Kina – en bærekraftig utviklingsmodell? (China – a sustainable development model?). In J.I. Bekkevold and H. Kristoffersen (eds.), *Kinas økonomi*. Gyldendal.
- 2011 Anton Eberhard, Orvika Rosnes, Maria Shkaratan and Haakon Vennemo: *Africa's Power Infrastructure – Investment, Integration, Efficiency*. Directions in Development, The World Bank.
- 2009 Shaun Larcom and Haakon Vennemo: International experiences in air pollution management. In T. Lin and T. Swanson (eds.), *Economic growth and environmental regulation. The PRC's path to a brighter future*. Routledge.

- 2005 Haakon Vennemo and Sam Bartlett: SEA of the Great Western Development Strategy, China. In Dalal-Clayton, B. and B. Sadler (eds.): *Strategic Environmental Assessment. A sourcebook and reference guide to international experience*. London: Earthscan.
- 2004 Stein Hansen, Henrik Lindhjem and Haakon Vennemo: On payments to poor stakeholders for sustainable use of protected areas, in Xie, Yan (ed.): *China's Protected Areas*, Tsinghua University Press (English and Chinese versions).
- 2002 Stein Hansen, Haakon Vennemo, Hang Yin, Zhang Zhiqiu and An Shumin: *Green taxes and the poor in China: Policy challenges in a changing economy*. Aileen International Press.
- 1995 Haakon Vennemo: Welfare and the Environment: Implications of a Recent Tax Reform in Norway. In L. Bovenberg and S. Cnossen (eds): *Public Economics and the Environment in an Imperfect World*. Kluwer Academic Publishers, Boston
- 1994 Berit Bringedal and Haakon Vennemo: *Arbeid og levekår. Sosialøkonomi for samfunnsfagene* (Employment and the standard of living. Economics for the social sciences.) Universitetsforlaget.

Research and publications

(See Project Work Experience for publications published in the Vista Analysis report series.)

- 2022 Nytt av et nytt testsenter for å styrke oljeberedskapskapen. (The utility gain from a new test center to support oil spill preparedness). *Samfunnsøkonomen*, 36, 3, 28-39. Med Andreas Skulstad og Orvika Rosnes.
- 2020 Noen krevende tema i anvendte samfunnsøkonomiske analyser. (Some demanding topics in applied economic analysis). *Concept-rapport nr. 60*. (Med Jens Furuholmen, Orvika Rosnes og Leonid Andreev).
- 2018 "City greening by rain gardens – costs and benefits". *Environmental Protection and Natural Resources*, Vol 29, 1, 1-5. (With Ewelina Siwiec and Anne Maren Erlandsen).
- 2015 Special policy study report: Eco-environmental risk management. Prepared for CCICED Annual Meeting, November. (With other Chinese and international team members).
- 2015 Hvordan ta hele NOREG i bruk. Ny modell for økonomisk utvikling i regionene. (How to make use of NOREG. New model for regional economic development). *Samfunnsøkonomen*, 6, 8-20.
- 2015 Book review of The globalization of clean energy technology – lessons from China. In The Economics of Energy and Environmental Policy.
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- 2005 Discount rates for electricity investments, *mimeo, ECON Analysis*. (With Eirik Lilledahl and Åsmund Jenssen).
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- 1994 "Formue, sparing og vekst: En analyse av Langtidsprogrammets perspektiver" (Wealth, savings and growth: An analysis of the long term projectives of the Long-term Programme). *Sosialøkonomen 9*. (With Kjetil Olsen)
- 1994 "An applied general equilibrium model with a two-way link to the environment" *Report 94/5, Statistics Norway*
- 1993 "Hva koster det å øke skattene?" (The cost of increasing taxes.) *Økonomiske analyser 8*. (With Anne Brendemoen)
- 1993 "Historiske brukerpriser på kapital" (Annual user costs of capital). *Rapporter 93/9, Statistics Norway*. (With Erling Holmøy and Bodil M. Larsen)
- 1992 "Five studies of tax policy using applied general equilibrium models" *Dissertations in Economics 10, Institute of Economics, University of Oslo*
- 1992 "Hvordan ta hensyn til husholdningenes størrelse og sammensetning i fordelingsstudier". (How to account for the size and composition of households when analysing the distribution of income). *Lecture on a predetermined topic required for the Ph.D. at the University of Oslo, March 17*
- 1991 "Økt barnetrygd eller redusert moms på mat?" (Higher child allowance or lower VAT?). *Sosialøkonomen 9*. (With Nina Jentoft)
- 1991 "Er egentlig veiinvesteringer på Østlandet så lønnsomt?" (Are investments in roads in Eastern Norway really that profitable?). *Sosialøkonomen 6*. (With Bjart Holtsmark and Gunnar Sander)
- 1991 "Kapitalkostnader før og etter forslaget til reform av bedrifts- og kapital-beskatningen." (Costs of capital before and after the reform in capital and business taxation.) *Økonomiske Analyser 3*. (With Erling Holmøy)
- 1991 "Klimapolitikk og norsk økonomi" (Climate policy and the Norwegian economy). *Økonomiske Analyser 3*. (With Knut Moum, Anne Brendemoen, Einar Bowitz and Erik Storm)
- 1991 "The marginal cost of public funds: A comment on the literature" *Discussion paper 63, Statistics Norway*
- 1991 "An applied general equilibrium assessment of the marginal cost of public funds in Norway" *Discussion paper 62, Statistics Norway*
- 1990 "Optimal taxation in applied general equilibrium models adopting the Armington assumption" *Discussion paper 55, Statistics Norway*

- 1988 “Anvendelser av generelle likevektsmodeller på skatteøkonomiske problemstillinger”. (General equilibrium models applied to tax policy.) *In Vidar Christiansen (ed.): Rapport fra seminar om skatteøkonomisk forskning. (Report from a conference on economic research on taxation.) Economic Research Programme on Taxation Report*
- 1987 “MSG 4 - A complete documentation of the system of equations” *Reports 87/14, Statistics Norway*. (With Erik Offerdal and Knut Thonstad)

Other qualifications

- 2021 Member of a public committee for evaluation of the travel guarantee scheme in Norway
- 2016-2018 Member of a government commission to deliver an NOU to modify the legal framework for docks and ports (NOU 2018:4 Sjøveien videre)
- 2009-2010 Member of government commission delivering NOU 2010:20 Tilpassing til eit klima i endring (adapting to a changing climate).
- 2000- Referee *Norwegian Research Council*
- 1993- Referee *Climate Policy, Ecological Economics, Energy Journal, Environment and Development Economics, Environmental and Resource Economics, Environmental Science and Technology, International Tax and Public Finance, Journal of Environmental Management, Regional Science and Urban Economics, Resource and Energy Economics, Samfunnsøkonomen, Scandinavian Journal of Economics, Norsk Økonomisk Tidsskrift*.
- 2014, 2018 Member, committee to award the best Master’s Thesis in Economics, University of Oslo
- 1990- Co-editor, *Nordic Journal of Political Economy*
- 2012- Member of editorial board, *Journal of Environmental Economics and Policy* (Chinese language journal)
- 1990- Master thesis advisor, University of Oslo
- 1986- External examiner, undergraduate and graduate level, University of Oslo, University of Life Sciences
- 2007-2009 Op-ed commentator, Stavanger Aftenblad (www.aftenbladet.no).
- 2006-2009 PhD thesis advisor, University of Oslo
- 2004, 2012 Referee *MIT Press*
- 1993-94 Lecturer, graduate courses in Macroeconomics, University of Oslo
- 1992-1993 Member of government commission delivering NOU 1993: 8 Bør momsen differensieres (Should the VAT be differentiated?)
- 1984-89 Teacher and Student Assistant, undergraduate level, University of Oslo
- 1988-91 Journalist and member of the editorial staff, «Natur og Miljø», the magazine of the Norwegian Society for Conservation of Nature (circulation ca. 45 000)

Languages

Norwegian Native

English	Fluent
Portuguese	Fair (B1-B2)