



## Curriculum Vitae

# Philip Swanson

Associated Partner

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## Profile

Philip Swanson has over 25 years' experience conducting economic and policy analysis with a focus on energy, the environment, and higher education. Functional expertise includes programme management, project monitoring and evaluation, impact measurement, and financial analysis. He also has built up expertise on methodologies for splitting costs among cooperating partner organisations, e.g., for determining cost-sharing and membership dues. Philip served as desk officer for Sub-Saharan Africa and the ex-Soviet countries at the International Energy Agency (IEA), has managed programmes for the United Nations, and was a Partner in Oslo-based ECON Analyse. He speaks English, French and Russian, and has US and French citizenship. Philip earned his BA and MA degrees in international relations and economics from the Johns Hopkins University. His work has been published by the OECD and World Bank, among others.

## Education

- 1985-1987 MA in international relations and economics, *The Johns Hopkins School of Advanced International Studies (SAIS)*, Washington, D.C.
- 1982-1986 BA in international relations, *The Johns Hopkins University*, Baltimore

## Work experience

- 2019- Associated Partner, *Vista Analyse*, Oslo and Paris
- 2014- 2018 Administrator, *Climate & Clean Air Coalition/UNEP*, Paris
- 2007- 2014 Senior Associate, *Pöyry*, London and Paris
- 1999-2007 Partner, *Econ Analyse*, Paris and Oslo
- 1992-1999 Principal Administrator, *International Energy Agency/OECD*, Paris
- 1990-1992 Consultant, *Price Waterhouse*, London
- 1987-1990 *Pacific Architects and Engineers*, Moscow

## Languages

English	Mother tongue
French	Fluent speaking and reading
Russian	Good speaking and reading

## Selected project experience

2019	<b>Industrial energy efficiency strategy in Ethiopia:</b> Member of team helping Ethiopia develop its industrial energy efficiency strategy.
2018-19	<b>Review of Red Cross financial submissions:</b> On behalf of the Finance Commission of the International Federation of Red Cross & Red Crescent Societies (IFRC), advised on improvements to the financial reporting process which the IFRC uses to determine annual dues. Included interviews with the 30 largest national societies and reviews of their financial statements.
2018	<b>Advice on membership dues for Lutheran World Federation:</b> Reviewed and simplified formula for dues paid by membership churches of the Geneva-based Lutheran World Federation.
2018	<b>Oil revenue management in developing countries:</b> Member of Vista Analyse-led team with framework contract with Norway's Oil for Development programme.
2018	<b>Peer-to-peer oil and gas regulatory and policy Assistance:</b> Working with the Center for Clean Air Policy (CAPP) and the Clean Air Task Force (CATF), launched this UN-hosted programme to advise oil and gas-rich developing countries on best-practice policies for addressing methane emissions and associated-gas flaring.
2018	<b>Oil and Gas Methane Emissions Studies:</b> Working with the Environmental Defense Fund (EDF) and companies under the Oil and Gas Climate Initiative (OGCI), launched this \$6-million research programme hosted by the UN Environment Programme. The studies engage independent scientists to conduct peer-reviewed research on oil and gas methane emissions in priority industry segments and locations internationally. The aim is to fill knowledge gaps in order to help government, regulators, companies and other stakeholders better target policies and techniques for addressing emissions.
2015-18	<b>CCAC Oil &amp; Gas Methane Partnership:</b> Administrator for this public-private partnership hosted by the UN Environment Programme. Recruited 10+ oil and gas companies, which committed themselves to surveying for, addressing, and reporting on emissions in their participating operations. Also oversaw the production of a series of technical guidance documents identifying key emission sources and cost-effective options for addressing them.
2015	<b>Norway's official side event at COP21:</b> Organised Norway's official side event for the 2015 Paris Climate Conference (COP21).
2014-16	<b>Technology demonstration for black carbon emissions reduction:</b> Working with Petroleum Technology Alliance Canada (PTAC), helped launch and coordinate a program to demonstrate new technology to reduce black carbon emissions from flaring in the oil and gas sector.

- 2015 **Review of an NGO's membership dues:** Reviewed the formula used to determine the membership dues for an international NGO in order to more “fairly” divide its budget among its member organisations, based on sector-specific indicators and precedents from other relevant organisations.
- 2013 **Mid-term review of three power-sector investments in Liberia:** For Norad, led team evaluating three related Norwegian government assistance programmes: the management contract of the Liberian Electricity Corporation, a multi-donor grid investment programme, and a technical assistance programme for the Liberian Ministry of Lands, Mines and Energy. The assignment included a separate review of gender-related issues across the programmes. Based on OECD DAC evaluation criteria.
- 2013 **Asian markets for Arctic LNG:** Co-author of multi-client study examining possibilities for exporting Russian and Norwegian LNG to Asian markets.
- 2013 **Associated petroleum gas flaring study for Russia, Kazakhstan, Turkmenistan and Azerbaijan:** For Carbon Limits, produced the final report for this EBRD project, summarising the various country reports and technical case studies.
- 2013 **Russian petroleum scenarios:** For the Norwegian Institute of International Affairs (NUPI) and the Fridtjof Nansen Institute, edited a study of future scenarios regarding the Russian oil & gas sector.
- 2013 **End review of Nile Basin Research Programme phase I:** For Norad, led the end-review of a programme that brought together post-doctoral researchers from different Nile-basin countries to conduct joint research on themes related to Integrated Water Resource Management. Based on OECD DAC evaluation criteria.
- 2013 **Evaluation of Nordic World Heritage Fund:** For Norwegian Ministry of Environment and UNESCO, member of team that conducted a comprehensive evaluation of this fund, which supports coordinated Nordic responses to implementing the World Heritage Convention and assists developing countries in doing the same. Based on OECD DAC evaluation criteria.
- 2010-2012 **M&E training to Tanzanian Rural Energy Agency:** For Sida, reviewed REA's monitoring and evaluation strategy and conducted training in Dar es Salaam for the REA's senior management. In 2011 conducted follow-up training on managing evaluations, and in 2012 provided training on project-level monitoring.
- 2012 **Evaluation of Nordic Development Fund:** Co-author of comprehensive evaluation of NDF under its new climate-change and development mandate. Based on OECD DAC Criteria, the evaluation included interviews with stakeholders and co-financing partners.
- 2011 **IEA WEO - Financing energy access for all:** For the International Energy Agency, reviewed international experience in financing access to electricity and clean cooking technologies, and drafted special section on this for the World Energy Outlook.
- 2011 **Mapping clean energy research and teaching in Ethiopian universities:** For Norad, led team to map clean-energy-related research and teaching at five regional universities. The project identified gaps and developed recommendations for the government and donors to improve capacity.

- 2011 **End-review of Zanzibar subsea cable project:** For Norad, led team to evaluate project to construct a subsea electrical cable from mainland Tanzania to Pemba island, Zanzibar. The review was based on OECD-DAC evaluation criteria and included collection of economic impact data on Pemba.
- 2011 **Mapping of NGOs in energy and development:** Served as Quality Assurer on a Pöyry team mapping Norwegian NGOs vis-à-vis the geographic and policy priorities of the Norwegian government's "Clean Energy for Development" initiative. The goal was to help Norad identify relevant NGO partners.
- 2011 **Mid-term review of Norwegian support to the Malawi National Audit Office:** Served as Quality Assurer on a Pöyry team conducting a mid-term review for Norad of an institutional cooperation programme between the Malawi National Audit Office and the Auditor General's Office of Norway.
- 2011 **End-Review of capacity-building programme for the Uganda State Petroleum Administration:** Served as Quality Assurer on a Pöyry team to review a capacity-building programme.
- 2010 **Evaluation of Finnish aid to Ethiopia:** Team member for comprehensive evaluation of all Finnish aid to Ethiopia over the previous 10 years. Special responsibility for aid efficiency issues (harmonization and alignment) and for the education sector. Included several weeks interviewing stakeholders in Ethiopia.
- 2010 **Modelling the cost of subsidies to alternative transport technologies:** For a government client, helped model the cost of various programmes to subsidise electric and hybrid vehicles and biofuels in the US, EU and China, and the possible effect of such programmes on oil demand.
- 2010 **Development of small-scale hydropower in Tajikistan:** Conducted study for the Norwegian MFA to examine barriers and opportunities for small-scale hydropower investments in Tajikistan, including relevant existing framework policies and legislation for promoting renewables. Included interviews in Tajikistan with officials and other stakeholders.
- 2010 **EITI validation:** Team leader for consortium (with Det Norske Veritas) pre-approved to validate country participation in the Extractive Industries Transparency Initiative (EITI).
- 2010 **Promotion of hydropower investments in Georgia:** Quality controller for project to produce documentation to attract foreign investors to several greenfield hydropower sites.
- 2009 **Support for regulation and taxation of mining in developing economies:** Part of a team that helped identify and screen candidate countries for Norwegian assistance in this area.
- 2009 **Mid-term evaluation of Norwegian petroleum-sector assistance to Timor-Leste:** For Norad and the Oil for Development programme, led a team of Norwegian and Timorese consultants reviewing the progress of phase II of a programme providing assistance in resource management, revenue management and environmental management to relevant Timorese government departments. The review was based on OECD/DAC evaluation criteria and included interviews with stakeholders in Timor-Leste.

- 2009 **Mid-term evaluation of Norwegian energy-sector assistance to South Africa:** For Norad, led a team of Norwegian and South African consultants reviewing the progress of the “Energy Sector Policy Research and Capacity Development Programme”. Based on OECD/DAC evaluation criteria, it examined institutional cooperation arrangements, provided recommendations for the remainder of the programme, lessons learned for future programmes and ideas for future collaboration in the sector. The review included two weeks of interviews in South Africa with the four participating South African institutions and other stakeholders.
- 2009 **Caspian oil and politics:** for Oslo-based think tank NUPI, served as editor for a published collection of papers on petroleum-related politics in the Caspian Sea region.
- 2008-9 **UNEP consultation on operational greenhouse gas emissions in the oil and gas sector:** For the United Nations Environment Programme (UNEP), conducted a consultation with oil and gas companies and other stakeholders to gauge the feasibility of a UNEP-led initiative to address operational greenhouse gas emissions in the oil and gas sector and to identify other priority environmental issues where stakeholders felt UNEP could usefully engage. The project included interviews with oil-company environmental experts and other stakeholders in Europe, the US, the Middle East and Asia.
- 2008 **Assessment of energy supply in Pakistan for telecom base stations:** For a telecom company, conducted a desk study of the energy supply and policy situation in Pakistan with focus on implication for reliable energy supplies for telecom base stations.
- 2008 **Evaluation of Norwegian assistance to the Angolan National Statistics Institute:** For Norad, evaluated a 10+ year programme through which Statistics Norway provided technical assistance under a twinning arrangement with its Angolan counterpart. Based on DAC criteria, the review included two weeks of interviews with stakeholders in Angola.
- 2008 **Assessment of risks faced by oil companies in Africa:** Provided quality assurance to a joint research programme with the Chinese Academy of Social Sciences (CASS), the Nigerian Institute of International Affairs (NIIA) and Norway’s ECON. The project assessed the various types of risk faced by operators in Nigeria’s petroleum sector, as perceived by the Chinese, Norwegian and Nigerian oil companies and their home governments, as well as common actions the parties could take to help reduce such risks.
- 2008 **Assessment of clean energy funds:** For a donor government agency planning to launch a public-private investment fund for hydropower, wind and solar energy projects in developing countries, provided a review of similar existing funds. Also estimated the investment potential in different types of clean energy in developing countries over the next five years.
- 2008 **Assessment of Azerbaijan’s electricity export potential:** For the Georgian electricity authorities, examined the future export potential of Azerbaijan under two scenarios. The study included a review of potential export markets.

- 2008      **Appraisal of proposed changes to pilot for Advance Market Commitment (AMC) for vaccine development:** For a donor government, followed up earlier work on an international pilot initiative. In particular, reviewed the implications of changes to the financing mechanism recently proposed by a specialist working group. (AMCs are designed to stimulate R&D of new vaccines for diseases that primarily affect developing countries, i.e., vaccines for which there are no markets in developed countries to cover their development costs.)
- 2008      **Assessment of Clean Energy Investment Frameworks (CEIFs):** For the Norwegian Ministry of Foreign Affairs, regularly reviewed and commented on all new documentation from the multilateral development banks related to CEIFs and other climate change-related financing frameworks developed in response to a mandate by the G-8.
- 2007      **Mapping of governance-related assistance to the extractive industries in Africa:** Conducted joint project for Norad, the African Development Bank and the World Bank to map and analyse all development assistance projects over the previous three years aimed at improving governance in the extractive industries in Africa. Starting with the OECD CRS database, the project conducted comprehensive direct enquiries with donor headquarters and field offices to collect supplemental information.
- 2007      **Driving forces of Chinese petroleum investments in Central Asia:** For a research consortium that included Norwegian oil companies and government departments, investigated the main factors driving and limiting Chinese oil and gas investments in Central Asia.
- 2007      **Assessment of potential export markets for Georgian green-field hydropower investments:** Conducted a due-diligence review of the electricity markets of Turkey, Southern Russia, Azerbaijan, Armenia and Iran for the Georgian Ministry of Energy.
- 2007      **Measuring the economic impact of procurement operations:** For an energy company, wrote a paper on methods for measuring the economic impacts of its procurement operations. The company used this as its contribution to a working group of the World Business Council on Sustainable Development (WBCSD). In a follow-up project, provided an overview of the various types of economic impacts the company was having in one of its host countries and compiled a list of indicators from internal and other sources to calculate such impacts.
- 2007      **Comparison of property restitution procedures in Bosnia and Croatia:** For the Norwegian Ministry of Foreign Affairs, conducted a study of property restitution and registration in two Balkan countries, to help derive lessons for future assistance to restitution programmes involving displaced persons. The project included interviews in Bosnia and Croatia.
- 2007      **Arctic shipping scenarios:** For a conference on shipping, co-authored a report on driving forces affecting shipping in the Arctic region through 2030. This covered the implications of melting sea ice, sovereignty claims, environmental concerns, oil and gas discoveries and trends on potentially-competing transit routes.

- 2007 **Appraisal of proposal for Advanced Market Commitment (AMC) for vaccine development:** For a donor government, evaluated proposals by the G8 and others for a new financing mechanism to promote the development of new vaccines for diseases predominantly afflicting developing countries. The evaluation compared various financing alternatives, including implications for the donor's internal economic regulations and reporting of DAC commitments. Presented paper at an international conference on development financing.
- 2006 **Assessment of oil revenue management in Azerbaijan:** For a research consortium including oil companies active in Azerbaijan, assessed oil revenue management by the Azerbaijani government, as well as the technical assistance that donors have provided to the government in this area.
- 2006 **Extractive Industries Transparency Initiative (EITI) implementation seminar:** For the World Bank, in conjunction with the Oslo conference of the EITI, moderated a seminar on EITI implementation issues.
- 2006 **Evaluation of Angolan energy policies:** For the International Energy Agency (IEA) and the Angolan Deputy Prime Minister, served as principal author and editor for a study surveying and critiquing the Angolan government's energy policies and provided prioritised recommendations. In addition to oil, gas and electricity, the study examined household energy use, including biomass. Included several weeks of interviews with government officials, oil companies and other stakeholders in Angola. Published as a book by the OECD. (In previous years, organised and conducted similar published energy policy reviews for the IEA on Russia, South Africa and the Caspian region.)
- 2006 **Mapping renewable energy targets:** Desk study to map the renewable energy targets of Norad's partner countries.
- 2006 **Assessing impacts of energy trade on poor people:** Contributed to report for UNDP on the economic, environmental and social impacts of energy trade on poor people in the Asia-Pacific region. The study also covered trade in energy services.
- 2006 **Appraisal of multilateral options to cut funding for conflicts financed by natural resource exports:** For the Norwegian Ministry of Foreign Affairs, evaluated multilateral options for cutting belligerent parties' access to legal markets for natural resources, including diamonds, oil, and timber, as a way to reduce financing for civil wars and other conflicts. Presented at a seminar organised by the MFA and published as an article.
- 2005 **Strategic country analysis of Angola:** For the Norwegian Ministry of Foreign Affairs, prepared an in-depth analysis paper, which served as a resource for the revision of Norway's assistance strategy to Angola. The study reviewed the current political and economic situation in the country and analysed the key sectors of interest to Norway (education and energy), including the activities of other donors. The paper concluded with recommendations for the focus of future Norwegian assistance.
- 2005 **Assessment of changes/trends in international development aid policy and context:** For Sida, co-authored paper on the major changes to the context in which bilateral aid agencies have provided assistance in the health sector over the last decade. The paper fed into an evaluation of how Sida responded to such changes.

- 2005 **Identification of investment and technical assistance opportunities for the IFC in Timor-Leste:** For the International Finance Corporation, led a study to evaluate the most prospective sectors and companies for the IFC to invest in, as well as the government departments and business organisations that might best benefit from IFC technical assistance. The study was designed to help focus IFC's activities in Timor-Leste, which recently had become an IFC member country.
- 2005 **Evaluation of contribution scales used by international membership organisations:** For the International Federation of Red Cross and Red Crescent Societies (IFRC), reviewed its scale of contributions, in order to suggest a more equitable and sustainable methodology for apportioning costs among members. A major part of the project involved assessing the systems used in other international membership organisations, both governmental and non-governmental.
- 2004 **Bangladesh gas study:** For an oil company, contributed to study on a proposed development, marketing and export project. My contribution focused on potential fiscal impacts on the host government.
- 2004 **Barents Russia economic scenarios to 2015:** For a consortium of Norwegian government ministries and companies, co-authored a study on prospects for the economy of Northwest Russia, analysing the major players and likely growth sectors. Appeared as several chapters in set of scenarios on the future of the region, published as a book.
- 2004 **West African oil producers:** Co-authored a comprehensive study of several oil-rich West African countries for the Norwegian Ministry of Foreign Affairs. The focus was the vulnerability of the economies and societies of individual countries to the "resource curse", and what Norway could do to assist countries in addressing such problems.
- 2003 **Development of guidelines for public environmental expenditure reviews (PEERs):** For the World Bank, explored various methods for defining and analysing public environmental expenditures and developed suggested guidelines for conducting reviews of such expenditures. (Published as a book by the World Bank.)
- 2003 **Assessment of electricity sector in Northwest Russia:** For a gas company, conducted a study on the prospects for private gas-fired power generation in the Barents-Sea regions of Murmansk Oblast and Karelia.
- 2003 **Evaluation of various international initiatives for addressing the "resource curse":** For the Norwegian Research Council, reviewed the strengths and weaknesses of various international initiatives, with a focus on whether and how their incentive structures could actually help change behaviour.
- 2003 **UNDP African oil revenue initiative:** For the United Nations Development Programme, wrote a primer for policy makers in newly oil-rich African countries. Subjects included "Dutch disease", transparency of revenue flows, oil funds, and division of oil revenues between different levels of government.
- 2003 **World Bank workshop on public environmental expenditure reviews (PEERs):** Building on my previous work in this area, contributed to a seminar in Washington D.C. for World Bank staff.

- 2003 **Assessment of monitoring & evaluation systems used by international health organisations:** For Sida and the Global Fund to Fight AIDS, Tuberculosis and Malaria, led a study to review the monitoring and evaluation systems used in other health-related organisations (multilateral and bilateral), in order to inform the design of a new M&E strategy for the Global Fund. Focus was on how to incorporate existing national M&E systems.
- 2003 **Appraisal of potential benchmarks for financing immunization:** For the Global Alliance for Vaccines and Immunization (GAVI), explored ways to create guidelines for splitting the cost of immunization programmes between donors and developing countries.
- 2003 **Appraisal of financial and economic sustainability of a proposed project for rural electrification of Zanzibar:** Evaluated the financial and economic sustainability of a project proposed by the Zanzibar government to extend the grid into rural areas. Work included interviews and information collection on Zanzibar and mainland Tanzania.
- 2002 **Assessment of how different international health organisations use poverty and disease burden as factors in funding decisions:** For the Global Fund, investigated different ways to incorporate poverty and disease-burden in the funding decision-making process. As part of this, reviewed how other donors have incorporated these factors.
- 2002 **Review of procedures used by governments in reporting revenue flows from natural resources:** For this World Bank project, examined reporting and auditing procedures for revenue flows in various developing countries. (Chapter in a book published by the World Bank.)
- 2002 **Namibian rural electrification strategy:** Served as advisor to local team developing the off-grid strategy of the Namibian power producer, Nampower.
- 2002 **World Bank Global Initiative on Flaring Reduction:** contributed to the background documentation leading to creation of the World Bank-hosted initiative to decrease routine flaring of associated gas in oil production. Focus of contribution was on market and investment barriers to local use of gas that is currently flared.
- 2002 **Appraisal of CSR schemes:** For the Norwegian government, evaluated the effectiveness of various schemes used for certifying “corporate social responsibility” performance, with a focus on the schemes’ incentives for improving firms’ behaviour.
- 2002 **Assessment of methods to rate/certify the environmental-management competency of governments:** For the World Bank, evaluated different approaches to certify the ability of client governments to undertake required environmental and social impact assessments for Bank-funded projects.
- 2001 **Assessment of links between the oil industry and violent conflict:** For the Oslo-based Fafo Institute’s Programme for International Co-operation and Conflict Resolution, reviewed links between the oil industry and violent conflict in oil-rich developing countries (published as a book by Fafo, *Fuelling Conflict*).
- 2001 **Development of light-handed regulation for rural electricity systems:** Assisted the Uganda Electricity Regulatory Authority in developing a comprehensive set of light-handed regulations and contract templates for rural electrification, with an emphasis on incentives for promoting private investment in mini-grids.

- 2001 **Assessment of corporate social responsibility (CSR) in the oil sector:** For the Norwegian Research Council, conducted a series of studies on various aspects of CSR in the oil sector, including the role of home and host governments in promoting CSR, and the actions of different oil companies.
- 2001 **Survey of nuclear decommissioning costs:** For a nuclear operator reviewing the adequacy of funds it was setting aside for decommissioning, provided benchmarks based on costs used by other nuclear power plants around the world.
- 2001 **Appraisal of Energy for Rural Transformation project:** For Norad, conducted a pre-project assessment of the World Bank programme, "Energy for Rural Transformation" (Uganda), to assist Norad in its decision on whether to co-fund the project.
- 2000 **Advice on electricity regulation under deregulated markets in South Africa:** Contributed experiences of other countries to a project advising the South African regulator about the implications of restructuring different aspects of its electricity industry.
- 2000 **Support to expert witness in court case involving a subsea power cable:** For a Scandinavian consortium building a power cable to continental Europe, constructed models to compare net present values of alternative investments to supply the target market (including CCGT and coal-fired plants). These inputs were used in a successful court case involving the cable partners.
- 2000 **Evaluation of maritime support measures by different governments:** For the OECD Maritime Committee, modelled the financial effects of the fiscal and manning support measures that various governments provide to their shipping industries.
- 2000 **Assessment of barriers in gas distribution sector:** For the EU TACIS programme, investigated regulatory and other barriers to investment in gas distribution networks in several Russian regions.
- 2000 **Review of affirmative action programmes in the energy sector:** for the South African government, reviewed affirmative action programmes in selected countries and assessed their lessons for the government's plans to promote greater black participation in the energy sector.
- 2000 **Review of integrated petroleum and gas pipeline regulation:** Advised the South African government on international experience in the design of regulatory frameworks to promote gas industry development.