

Dian Phylipsen

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Gerardina (Dian) Josephina Maria Phylipsen

KEY QUALIFICATIONS

- ✓ +25 years track record in consultancy, research, capacity building and project management
- ✓ Extensive experience in carbon markets, international climate negotiations, energy & climate policies, climate finance, technology transfer and industrial energy efficiency
- ✓ Main focus on the development, implementation and monitoring of ambitious, fair and transparent targets and effective policies to address climate change
- ✓ Leading expert on carbon pricing instruments, include emissions trading in the EU and around the world, CDM/JI and other offset programmes, scaled up crediting mechanisms and carbon taxation
- ✓ Established capacity builder, trainer, lecturer in many countries and at various universities
- ✓ Member of Climate Strategies, the Roster of Experts for the World Bank Partnership for Market Readiness and the Climate and Development Knowledge Network, and the Dutch Expert Group on Climate and Markets, UNFCCC CDM review expert, IPCC reviewer

PROJECTS AND CLIENTS (for a more complete list, see annex)

- ✓ Carbon markets: Supporting the European Commission in EU ETS reviews, development of MRV guidelines and allocation rules, and implementation (NAPs/NIMs, new entrants & closures, Article 21); Supporting the development of regional and national ETS in China and South Korea; Reviewing PMR market readiness plans for Vietnam, Indonesia; Distributional impacts of carbon pricing instruments; Development of the Gold Standard for CDM and voluntary markets; Supporting the development of BP's target neutral programme; evaluating domestic offset programmes around the world, supporting development of sectoral approaches, credited NAMAs, Art6 of the Paris Agreement.
- ✓ Negotiations: Development of the EU Burden Sharing agreement of the Kyoto Protocol, and identification of lessons learned from EU burden/effort sharing for use for developing country negotiators; Future commitments: Involving more countries in the climate regime; Supporting the UNFCCC Technology Mechanism and its Dutch focal point; Evaluating climate finance initiatives and opportunities for leveraging by multilateral development banks; Training diplomats and negotiators from German, the UK and Taiwan on climate negotiations; Impact of IPCC SR15 on NDCs.
- ✓ Energy & climate policies: Evaluating the effectiveness of energy & climate policies towards Kyoto targets and national pledges; Evaluating emissions trading systems and offset programmes; Developing national climate change plans; Developing & implementing industrial energy policy in Vietnam & China, emission reduction scheme in Indonesia; Feasibility of transitioning domestic policies to ETS under Art6 of the Paris agreement; Evaluation of the Dutch Climate Accord; Impact carbon pricing on phase out of coal-fired power generation.
- ✓ Industrial Energy Efficiency: Development of Handbook on international comparisons of industrial energy efficiency; Assessment of impact of Dutch benchmarking Agreement on energy use & emissions; Supporting development, implementation of industrial energy efficiency policy in Vietnam and China; Evaluation industrial energy & climate policies around the world; Benchmarking Lafarge's energy performance; Supporting WWF Climate Saver agreements in cement and paper industry;
- ✓ Clients: European Commission, national governments of the Netherlands, the UK, Germany, Italy, New Zealand, Japan, World Bank, GEF, PMR, IADB, AfDB, ADB, EBRD, EIB, UNFCCC, UNDP, UNIDO, WWF, Greenpeace, Friends of the Earth, ECF, ClimateWorks Foundation, CPLC, MAPS, Wageningen University, Delft University, Imperial College of London, College of Europe, European Research Agency, Lafarge, Cemex, Essent, Endesa, ENEL, BP, Shell, Heineken.

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**WORK HISTORY**

- 2016 - present *SQ Consult B.V., Director Climate Change, Member of the Board*
- 2010 - 2016 *SQ Consult B.V., Senior Associate Climate Change*
- 2010 - present *Phylipsen Climate Change Consulting, Owner and Principal Consultant*
- 2009 - 2010 *ECOFYS International, Utrecht, the Netherlands, Managing Consultant Climate Change.*
- 2007 - 2009 *ECOFYS International, International Business Developer Climate Change, and Ecofys Roma, Italy, interim team manager*
- 2005 - 2006 *ECOFYS UK Ltd, London, the UK, Manager Energy & Climate Strategy*
- 2000 - 2004 *ECOFYS, Energy and Environment, Utrecht, the Netherlands, Manager, Climate Change*
- 1999 - 2000 *Dept. of Science, Technology and Society, Utrecht University, Senior researcher*
- 1998 - 1999 *Lawrence Berkeley National Laboratory, University of California at Berkeley, USA, Senior Research Associate*
- 1993 - 1998 *Dept. of Science, Technology and Society, Utrecht University, (Senior) researcher*

EDUCATION

- 1981 - 1985 *Ste Marie high school, Huijbergen, The Netherlands (Summa Cum Laude)*
- 1985 - 1986 *B.Sc. Preparatory class, Dr. Struycken Institute, Etten-Leur, the Netherlands*
- 1986 - 1990 *B.Sc. in Chemistry, Hogeschool West-Brabant, Breda, the Netherlands, the Netherlands (Cum Laude)*
- 1990- 1993 *M.Sc. in Energy & Environment Utrecht University, Utrecht, the Netherlands*
- 2000 *PhD, Utrecht University, Utrecht, entitled: International Comparisons & National Commitments; analysing energy and technology differences in the climate debate*
- 2002-current *various courses, including Presentation skills; Commercial skills; Negotiation skills; Job performance evaluations Media trainin; Social media training; Language courses (Italian, Spanish)*

ANNEX: PROJECT LIST

1993 - 1994	Environmental lifecycle assessment of solar cell modules, commissioned by NOVEM
1994	Evaluation of guidelines for the sharing of international CO ₂ budgets, commissioned by the National Research Programme Global Air Pollution and Climate Change
1995 - 1998	Development of methodologies for <u>international comparisons of energy efficiency</u> , including the publication of a 'Handbook on International Comparisons of Energy Efficiency in the Manufacturing Industry', commissioned by the Ministry of Environment (Energy Department)
1996 - 1998	Development and application of a methodology for the <u>burden sharing</u> of a joint EU greenhouse gas emission reduction target, including advising EU negotiators on this topic, commissioned by the Dutch Ministry of Environment and the Netherlands' Presidency of the EU (1997)
1996 - present	Advising on the design and effectiveness of <u>policies and measures</u> to reduce greenhouse gas emissions in the EU, its Member States, Japan, the USA and China (several projects), commissioned by the Dutch Ministry of Environment, ANPA (Italian National Environmental Protection Agency), WWF (World Wildlife Fund), the China Council, IIP.
1996 - present	Assessment of the contribution of EU common and co-ordinated <u>policies and measures</u> in post-2000 greenhouse gas emission reduction commitments, commissioned by the Dutch Ministry of Environment, RIVM and ANPA (Italian National Environmental Protection Agency)
1997 - present	<u>Benchmarking</u> the energy efficiency of the Dutch energy-intensive industry, commissioned by the Dutch Ministry of Economic Affairs and RIVM
1998 - 1999	Assessment of energy use and greenhouse gas emissions in major developing countries, commissioned by the U.S. Environmental Protection Agency
1998 - 1999	Analysis of the energy efficiency and greenhouse gas reduction potentials in the U.S. industry, commissioned by the U.S. EPA
2000 - 2001	Support of policy dialogue about long term energy structure and policy, commissioned by National Research Programme Global Air Pollution and Climate Change
2000 - 2001	Development of approaches to incentivise environmentally friendly technologies for the <u>Clean Development Mechanism</u> , commissioned by WWF.
2000 - present	Supporting large companies in the establishment of climate change objectives, commissioned by WWF.
2000 - present	Validation of <u>JJ/CDM</u> project baselines, commissioned by various project developers, in co-operation with PriceWaterhouseCoopers
2001	Assessment of the applicability of the Triptych Approach to <u>burden sharing</u> between Canada's provinces, in commission of the Canadian Climate Change Secretariat.
2001 - 2002	Development of a network of experts in Kyoto Mechanisms, stimulating discussion and information exchange, commissioned by the European Commission.
2001 - 2002	Development of an EU <u>JJ/CDM</u> project preparation facility, including a guidebook and terms of reference for project developers, commissioned by the European Commission.
2001 - 2002	Assessment of possible developing country involvement in climate commitments in different <u>burden sharing</u> regimes, commissioned by the German Environment Ministry.
2002	Auditing corporate GHG emission <u>monitoring</u> and reporting system, commissioned by Lafarge.
2002	Feasibility assessment of a national allocation plan for the <u>EU emission trading system</u> , commissioned by the Dutch Ministry of Economic Affairs, in co-operation with KPMG.
2002 - 2004	Feasibility of introducing <u>Voluntary Agreements</u> on industrial energy efficiency in China, commissioned by UNIDO and the Energy Foundation.
2002 - 2008	Development of a Gold Standard carbon label for <u>CDM</u> and voluntary offset projects (various projects) commissioned by WWF and the Gold Standard.

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- 2002 – 2003 Preparation of installation-level monitoring guidelines for the European emission trading system, commissioned by the European Commission.
- 2002 Capacity building on emission trading and JI/CDM, commissioned by several governments (Belgium, Luxembourg, Denmark, Spain), including training courses for companies in several countries.
- 2003 - present Expert review of new baseline and monitoring methodologies for CDM projects for the Methodology panel of the CDM Executive Board, in commission of the UNFCCC
- 2003 - present Supporting strategy development for emissions trading for various companies
- 2003 - 2004 Identification and evaluation of greenhouse gas mitigation options with development benefits (including CDM projects), commissioned by the Inter-American Development Bank.
- 2003 Assessment of a differentiation of future commitments for Annex I countries, commissioned by the Dutch Ministry of Environment
- 2003 - 2004 Assessment of energy efficiency in the context of future commitments and consequences for Japan, commissioned by CRIEPI, Japan.
- 2003 - 2004 Supporting the development of a tool for analysing future commitments, commissioned by RIVM
- 2003 Supporting EU negotiations on future commitments, commissioned by the European Commission.
- 2004 Supporting the development of the Polish allocation plan for the EU emissions trading system, commissioned by the Polish Ministry of Industry
- 2004 CDM capacity building through workshops and training courses, for various clients, including the EIB and the EBRD
- 2004 - 2007 Evaluation of all National Allocation Plans for the EU emissions trading system, commissioned by the UK Department of Trade and Industry (Phase I) and Econcern (Phase II).
- 2004-2005 Development of regional Centers of Excellence for CDM in various countries, commissioned by the UK Foreign & Commonwealth Office
- 2005 Supporting the development of the UK policy on using benchmarking in the 2nd Phase of the EU ETS, commissioned by the UK Department of Trade and Industry.
- 2005 Supporting the implementation of the Linking Directive in the UK – supply and demand of JI/CDM credits in the EU ETS, commissioned by UK DTI/DEFRA.
- 2005 Supporting decision-making in the UK on Phase II of the EU ETS by assessing allocation methodology, contribution of sectors to Kyoto targets, complementarity and the effects on competitiveness of Phase II intentions of all 25 Member States commissioned by UK DTI/DEFRA.
- 2005 Assessing opportunities for enhancing internal and external climate change mitigation and adaptation activities, commissioned by the Countryside Council of Wales
- 2005- 2007 Supporting the European Commission in the mid-term review of the EU ETS – competitiveness effects and future design, commissioned by the European Union.
- 2005 Market assessment for voluntary GHG credits, commissioned by a major international oil company.
- 2005- 2006 LETS Update Project: analysing areas for EU ETS expansion – and for areas for harmonisation in future phases; and sustainability appraisal of recommendations, commissioned by a partnership led by the UK Environment Agency, funded by EU LIFE Programme.
- 2006 Development of 'ideal' NAP for France for Phase II of the EU ETS, commissioned by a French NGO
- 2006 Evaluation of the New Zealand Projects to Reduce Emissions (PRE) scheme, commissioned by the New Zealand Ministry for Environment.
- 2006 Assessment of the possibilities of a domestic offset programme in Spain, commissioned by the regional government of Catalunya.
- 2006 Development of benchmarking methodologies for the EU ETS, commissioned by the regional government of Catalunya.

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- 2006 Impact assessment – inclusion of the aviation sector in the EU ETS, commissioned by the European Commission.
- 2006-2007 Supporting the European Commission in evaluation the progress of the IPCC in preparing its 4th Assessment Report, commissioned by the European Commission.
- 2006-2007 Implementation of the EU ETS in Romania, commissioned by the Dutch Agency for International Business and Cooperation (EVD).
- 2006-2007 Supporting the UK Government in the negotiations on the post-2012 commitments, commissioned by UK DEFRA
- 2007 Assessment of business development opportunities in the Carbon Credit market, commissioned by an international gas company.
- 2007 Supporting the development of the corporate ETS and CDM strategy, commissioned by an international appliance company.
- 2007 Development of standardized additionality criteria for the voluntary credit market, commissioned by the Climate Group.
- 2007-2008 Feasibility assessment of benchmarking as an allocation tool in Phase III of the EU ETS for the cement and refinery sectors, commissioned by the governments of the Netherlands, Germany and Italy.
- 2007-2008 Feasibility assessment of benchmarking as an allocation tool in Phase III of the EU ETS , commissioned by the European Commission.
- 2007-2008 Supporting the negotiations on a Climate Savers deal with the Italian paper industry, commissioned by WWF Italy.
- 2007-2008 Supporting the EU post-2012 burden sharing negotiations, commissioned by the Italian Ministry of Environment.
- 2008 Assessing the IFIEC method for benchmarking as an allocation approach in the EU ETS, commissioned by IFIEC, the International Federation of Industrial Energy Consumers
- 2008 Assessing (methodologies for) costs of 2020 GHG targets for Italy, commissioned by ENEA
- 2008 The possibilities for Carbon Capture and Storage in Carbon Markets, commissioned by the European Commission
- 2008 Supporting the Italian Government in the European negotiations of the 2020 climate change targets, commissioned by the Italian Minister of Environment
- 2008 Identifying costs, benefits and opportunities for Italy in the Energy and Climate Change Package, commissioned by WWF Italy
- 2008 Assessing developments in climate science (system, impacts, adaptation and mitigation) since the IPCC 4th Assessment Report, commissioned by the European Commission.
- 2008 Developing a database on emissions, projections and targets for ETS (+ non-ETS) sectors in EU30 for 2005-2020 to support carbon strategy development, commissioned by an international energy company
- 2008 Assessing possibilities and issues in linking ETS systems, commissioned by a carbon market intermediary
- 2009 Feasibility of a -30% GHG reduction target for Italy in 2020, commissioned by WWF Italy
- 2009 Policy assessment for the carbon market, energy efficiency, CHP and renewable energy in Italy, commissioned by an international energy company
- 2009 Evaluation of Recommendations for a possible Austrian Domestic Offset Programme, commissioned by Joanneum Research
- 2009 Assessing carbon market opportunities for energy conservation in buildings (ETS and domestic offset projects), commissioned by a Dutch Housing Association

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- 2009 Assessment of the climate friendliness of the Economic Recovery Packages in various countries, commissioned by a group of international NGOs
- 2009 Competitiveness issues and allocation in the ETS post-2012, commissioned by the European Commission
- 2009 Development of abatement cost curves for ETS sectors for Phase III (including new sectors) as input to a carbon price model, commissioned by an international energy company
- 2009 Assessment of sector vulnerability to leakage in the EU ETS post-2012, commissioned by an international industrial branche organisation
- 2009 Monitoring, Reporting, Verification, Compliance and Enforcement in linking emissions trading systems, commissioned by ICAP
- 2009 Framework contract Capacity Building EU ETS, commissioned by the Dutch Ministry of Environment
- 2009 G8 Climate Score cards 2009, commissioned by WWF and Allianz
- 2009 Feasibility of an emission reduction scheme in the cement sector in Indonesia, for AFD.
- 2010 Implementation of an emission reduction scheme in the cement sector in Indonesia, for AFD.
- 2010 Review of energy efficiency metrics in for energy policy making in developing countries, commissioned by the World Bank.
- 2010 Update on the ETS Phase II (emissions, allowances, credits) and Phase II (new decisions and progress on implementation), commissioned by an international energy company.
- 2010 Development of proposal for UNDP-EU climate fund on monitoring of emissions and NAMAs in developing countries, commissioned by UNDP.
- 2010-2012 Assessment of industrial energy efficiency and climate policies in IEA and major developing countries for an on-line database, commissioned by the Institute of Industrial productivity (IIP, the industrial knowledge center of the Climate Works Foundation – various projects).
- 2010 Supporting the development of industrial energy efficiency policy in Vietnam, for the World Bank.
- 2010-2011 Supporting target setting in a 2nd generation Climate Savers Agreement with a large international manufacturer, commissioned by WWF.
- 2011 Supporting the development of sectoral approaches in the cement sector in China, commissioned by the UK Foreign and Commonwealth Office.
- 2011 Assessing the impacts on the energy-intensive industry of switching from a 20% to a 30% emission reduction target in 2020 for the EU as whole, commissioned by an international NGO.
- 2011 Supporting a regional Multilateral Development Bank in developing a strategy to leverage Climate Finance for its regional member countries.
- 2011-2012 Supporting the evaluation of the NIMS (National Implementation Measures) of all EU Member States, outlining free allocation for Phase III of the EU ETS, commissioned by the European Commission (in cooperation with DNV).
- 2011-2012 Supporting the EU Compliance Forum of the EU ETS, for the European Commission
- 2011-2012 Supporting the communication on the EU ETS design, commissioned by the European Commission (in cooperation with ICF).
- 2012 Providing guidance on the Accreditation & Verification Regulation for the EU ETS, commissioned by the European Commission.
- 2012 Providing support on monitoring & reporting and accreditation & verification in emissions trading to Chinese cap-and-trade pilot experts, for the European Commission (in cooperation with Azure).
- 2012 Developing a methodological framework for comparing sustainable heat production & usage in industry, commissioned by AgentschapNL.

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- 2012 Evaluating the NIMs (National Implementation Measures) of EFTA countries (Norway, Iceland Liechtenstein), outlining free allocation for EU ETS Phase III, for the European Free Trade Association
- 2012 Developing procedures and tools for assessing and processing applications from new entrants, capacity extension, closures and partial cessations in the EU ETS in Phase III, commissioned by the European Commission
- 2012 Updating the Article 21 Questionnaire on implementation of the EU ETS, commissioned by the European Commission
- 2012 Developing the rules for the new entrants queue in EU ETS, for the European Commission
- 2012 Assessing the feasibility of inclusion of buildings and transport in the EU ETS, commissioned by the European Commission
- 2012 Evaluation of research proposals in the 7th EU Framework Programme on research, development, demonstration and innovation for environment, commissioned by the European Commission.
- 2013 Developing a voluntary agreement programme on industrial energy efficiency in Vietnam, commissioned by the World Bank/GEF.
- 2013 Review of the Indonesian Market Readiness Plan under the World Banks Programme for Market Readiness, commissioned by the World Bank/PMR.
- 2013 Conducting Master's classes on comparing sustainable heat production & usage in industry, commissioned by AgentschapNL.
- 2013 Identifying lessons learned from the European Burden Sharing Agreements for developing countries in the post-2020 climate negotiations, commissioned by the MAPS programme (Mitigation Action Plans and Scenarios) from the University of Cape Town/SouthSouthNorth.
- 2013-2014 Evaluation of the application of cessation rules in the EU ETS by Member States, commissioned by the European Commission.
- 2013-2014 Evaluation of New Entrants applications for free allowances in the EU ETS, for the European Commission.
- 2014 Review of the Vietnamese Market Readiness Plan, for the World Bank Partnership on Market Readiness.
- 2014 Supporting the development of the Vietnamese Climate Change Action Plan for RCEE-NIRAS, commissioned by the Asian Development Bank
- 2014-2017 Supporting the development of the national emissions trading system in China, commissioned by the European Commission.
- 2015 Supporting the 2015 EU ETS review, commissioned by the European Commission.
- 2015-2017 Supporting the implementation of a pilot voluntary agreement programme on industrial energy efficiency in Vietnam, commissioned by GEF.
- 2015 Training on international climate negotiations for Taiwanese government representatives, commissioned by the College of Europe.
- 2015-2016 Supporting the UNFCCC Technology Mechanism, commissioned by the European Commission.
- 2015-2016 Review of the New Entrant Reserve allocation rules in the EU ETS for post-2020 recommendations, commissioned by the European Commission.
- 2015-2018 Evaluating the effectiveness of the UK Climate Investment Pilot, commissioned by the UK Department of Energy & Climate Change.
- 2016 Evaluating H2020 research proposals related to climate change, commissioned by the European Research Agency.
- 2016 Developing and conducting training on successful development of NAMA proposals for developing country practioners for the Center for Development Innovation, Wageningen University.

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2016-2017	Supporting the EU-India Climate dialogue, supported by the European Commission.
2016-2018	Analysing the potential for domestic policies to transition into <u>ETS</u> for use as Internationally Transferred Mitigation Outcomes (ITMOs) under <u>Art.6 of the Paris Agreement</u> , commissioned by the German Environment Agency UBA.
2016-2017	Evaluation of the application of cessation rules in the EU <u>ETS</u> by Member States for 2014-2015, commissioned by the European Commission.
2016-2017	Supporting the trilogue negotiations on the EU <u>ETS</u> design in Phase 4, commissioned by the European Commission.
2017	Evaluating H2020 research proposals related to the <u>circular economy</u> , commissioned by the European Research Agency.
2017	Supporting the establishment of a Dutch National Designated Authority for the UNFCCC <u>Technology Mechanism</u> and its Climate Technology Center and Network, commissioned by RVO (The Netherlands Enterprise Agency).
2017	Supporting the Korean <u>ETS</u> with EU experience on national target-setting and cap-setting, commissioned by EuropAid.
2017	Capacity building Chinese ETS experts on building blocks for a successful <u>ETS</u> , for ICAP.
2017-2018	Developing templates and guidance for the NIMs (national allocation plans) in line with the new rules for Phase 4 of the EU <u>ETS</u> , commissioned by the European Commission.
2017-2018	Developing a guidebook on verification and accreditation for <u>carbon pricing</u> instruments, commissioned by the World Bank PMR.
2017-2018	Supporting the development of a <u>Cleantech</u> cluster in London by analysing local economic impacts of Cleantech clusters around the world, commissioned by Imperial College London–Grantham Institute on Energy & Climate Change.
2018	Training on the international <u>climate change negotiations</u> for German and British negotiators, commissioned by the German Ministry of Foreign Affairs.
2018-2019	Supporting the development of allocation rules for Phase 4 of the EU <u>ETS</u> , commissioned by the European Commission (confidential).
2018-2019	Developing guidance on quantification of emissions in monitoring protocols for <u>carbon pricing</u> instruments, commissioned by the World Bank PMR.
2018	Developing the MRV Framework for trading emission units for Effort-Sharing (non-ETS) Sectors, part of a project commissioned by EBRD.
2018	Derisking the coal sector in the Balkan region, the role of carbon pricing, commissioned by the European Climate Foundation
2018	Impact of the IPCC Special report on 1.5 degree warming on strengthening NDCs, with Climate Strategies Network, for the ClimateWorks Foundation.
2018	Supporting the Global Climate Action Summit in California with issue papers on carbon pricing, for the European Commission
2018	Distributional impacts of carbon pricing instruments, with Climate Strategies Network, commissioned by the World Bank on behalf of the Carbon Pricing Leadership Coalition.
2018	Supporting the negotiation on a National Climate Accord in the Netherlands, for an environmental NGO
2018-2022	Supporting Switzerland's partner countries on climate resilient economic development for the Swiss State Secretariat for Economic Affairs