

Joerg Hartmann, PhD

KEY QUALIFICATIONS

- Broad background in water, energy and natural resources management
- Led multiple project appraisals, audits, sustainability and impact assessments
- Accredited lead assessor for the Hydropower Sustainability Assessment Tools
- Auditor for the Alliance for Water Stewardship
- Strong partnership development experience with diverse sets of stakeholders
- Effective leader of multi-cultural and remote teams, program and knowledge manager
- Fluent in German, English and Spanish; basic French and Portuguese (reading only)
- Skilled in writing, presentations, negotiations and communications
- 27 years of work experience in Germany, Austria, Switzerland, Sweden, Iceland, Albania, Georgia, Armenia, Azerbaijan, Tajikistan, Indonesia, Myanmar, Bhutan, India, Pakistan, China, Nepal, Thailand, Cambodia, Laos, Malaysia, Vietnam, Australia, PNG, Tanzania, Ghana, Gabon, Zambia, South Africa, Mozambique, Chile, Peru, Ecuador, Bolivia, Colombia, Brazil, Paraguay, Mexico, Guatemala, Honduras, Nicaragua, Costa Rica, Dominica, USA, Canada

EXPERIENCE

- 2012-Present Sustainable Water & Energy LLC, Estes Park, Colorado, USA
Co-Owner and Principal Consultant
- Provided hydropower advisory services: renewable energy policy; regulatory frameworks; regional planning, project selection and preparation; cumulative impact assessments; sustainability and impact assessment guidelines; bank safeguards; climate bonds; industry and market analysis; expert panel member; quality review of project documents; due diligence and risk assessments; research and drafting of publications and funding proposals; capacity building and strategy development with developers, banks, government agencies, NGOs
 - Provided freshwater and climate change advisory services: training and strategy development on water resources management; watershed management; payments for ecosystem services; river restoration and coastal management; climate change impacts and adaptation; application of Alliance for Water Stewardship standard
 - Conducted sustainability assessments: more than 30 assessments of hydropower projects using the Hydropower Sustainability Assessment Protocol (HSAP/HESG), mostly as team lead; multiple trainings, presentations and analyses for third parties (e.g. World Bank); elected Chair of the global Governance Committee of the Hydropower Sustainability Assessment Council (2011-2013); developed and tested Geothermal Sustainability Assessment Protocol for Icelandic power companies and government agencies
- 2007-2011 World Wildlife Fund (WWF) International
Water Security Lead
- Represented global WWF network and led policy work on water infrastructure
 - Technical lead on issues such as environmental impact assessments, strategic environmental assessments, cost-benefit analysis, basin development planning, environmental flows, climate change impacts on water resources, and biodiversity offsets for water infrastructure
 - Built partnerships with companies, banks, government agencies, and other NGOs

- Engaged multiple stakeholders in a sustainability process, resulting in the Hydropower Sustainability Assessment Protocol; assessed 5 projects with draft versions
- Led internal strategy development, budgeting, fundraising, recruiting, team building, mentoring, training, and communications for WWF's overall water security work

1996-2007

KfW (German Development Bank)

Country Director, Dar es Salaam, Tanzania (2004-2007)

- Managed country office and represented KfW in Tanzania (largest African recipient of German development assistance)
- Managed USD 250 million water sector funding; modernized portfolio, increased disbursements, and attracted EU and NL resources for management through KfW
- Elected chair of Development Partners Group-Water; enhanced donor harmonization and policy dialogue with government and mobilized funding for a USD 1 billion sector basket fund

Senior/Principal Project Manager, Central America (2000) and Andean Countries (2001-2004)

- Led task teams for protected areas programs, payments of environmental services, sustainable land use, watershed management, debt-for-nature-swaps, and rural water supply
- Coordinated policy work on conservation finance, member of GEF relations task force
- Secretary of KfW's Development Management Committee (2004)

Project Manager and Desk Officer, Albania (1996-2000)

- Developed largest water sector donor program in country, including infrastructure finance, technical assistance, private-public partnerships, and policy dialogue
- Supervised KfW's local office in Tirana

Trainee (1996)

- Participated in the appraisal of geothermal district heating, wastewater, and flue-gas desulphurization projects in Turkey; conducted global review of EIAs for wastewater projects

1992-1996

University of Göttingen, Department of Economics

Research Associate & Teaching Assistant in micro-economics

1991-1996

Economics Consultant and Trainer

- Organized study tours for small business chambers from Argentina
- Taught economics seminars for labor representatives and trainers
- Taught environmental economics seminars

1989

United Nations Secretariat, New York

Intern with the Department of International Economic and Social Affairs

1984-1986

German National Service ("Zivildienst")

Volunteer with the Göttingen Center for Disabled People

EDUCATION

1992-1995

PhD in Development Economics, University of Göttingen, Germany

- Dissertation: Economics of Multiple Use Management of Tropical Forests
- Field studies in Dominica and Guatemala (1994) on a German Government research grant
- Scholarship from the "Studienstiftung des deutschen Volkes"

1989-1992

"Diplom-Volkswirt" in Economics (equivalent to MA), University of Göttingen, Germany

1988-1989

University of California, Santa Cruz, USA (exchange program)

- Studies in Economics, Political Sciences, Latin American Studies
- Spanish Language Program in Morelia, Mexico (March - June 1989)

- Scholarship from the Education Abroad Program, University of California
- 1986-1989 University of Göttingen, Germany (1986-1988)
- Studies in Economics, Spanish

PUBLICATIONS

- MRC (forthcoming) Technical Review Report: Prior Consultation for the Proposed Sanakham Hydropower Project.
- IHA (forthcoming) How-to Guide on Infrastructure Safety.
- IHA, IUCN, UNESCO, WWF, TNC (2021) Hydropower and Protected Areas.
- Hartmann (2020) Hydropower Environmental, Social and Governance (HESG) Gap Analysis: Official Assessment Stortemelk Hydro, South Africa.
- IHA (2020) How-to Guide on Downstream Flow Regimes.
- MRC (2020) Technical Review Report: Prior Consultation for the Proposed Luang Prabang Hydropower Project.
- Hartmann (2020) Manual de entrenamiento sobre cambio climático e hidroenergía. CONDESAN.
- BMZ-IUCN-WWF (2019) Sediment flow in the context of mangrove restoration and conservation. A rapid assessment guidance manual.
- MRC (2019) Preliminary Design Guidance for Proposed Mainstream Dams in the Lower Mekong Basin. Version 2.0.
- MRC (2019) Technical Review Report: Prior Consultation for the Proposed Pak Lay Hydropower Project.
- Hartmann (2019) Economic Feasibility of the Stiegler's Gorge Hydropower Project, Tanzania. OECD Watch.
- Hartmann et al (2019) Hydropower Sustainability Assessment Protocol: Official Assessment Teesta-V Power Station, India.
- IHA (2019) How-to Guide on Hydropower Benefit Sharing.
- WWF and The Nature Conservancy (2019) Connected and Flowing: A Renewable Future for Rivers, Climate and People.
- Hartmann et al (2018) Hydropower by Design: A Guide. A system-scale approach to hydropower planning and management. The Nature Conservancy, Washington, D.C.
- Hartmann (2018) Reconsidering the Sambor and Stung Treng Hydropower Projects. Synthesis Brief. WWF.
- Hartmann and Rydgren (2018) Geothermal Sustainability Assessment Protocol: Assessment of Hellisheidi Geothermal Project, Iceland.
- Hartmann (2018) Geothermal Sustainability Assessment Protocol: Assessment of Theystareykir Power Project, Iceland.
- Hartmann (2017) The Stiegler's Gorge Hydropower Project: Rapid Assessment of Risks to the Selous World Heritage Site and the Rufiji-Mafia-Kilwa Marine Ramsar Site. In WWF, *The True Cost of Power*. Gland, Switzerland.
- The Nature Conservancy (2017) *The Power of Rivers: A Business Case*.
- Hartmann et al (2017) Hydropower Sustainability Assessment Protocol: Official Assessment Kárahnjúkar Hydropower Project, Iceland.
- Hartmann et al (2017) Hydropower Sustainability Assessment Protocol: Official Assessment Devoll Hydropower Project, Albania.
- Hartmann et al (2017) Hydropower Sustainability Assessment Protocol: Official Assessment Kaunertal Expansion Project, Austria.
- Hartmann (2016) Social Issues Related to Hydropower. Chapter 39 of *Wiley Alternative Energy and Shale Gas Encyclopedia*.
- Hartmann (2016) Sustainability of Hydropower. Chapter 37 of *Wiley Alternative Energy and Shale Gas Encyclopedia*.
- The Nature Conservancy, WWF, and the University of Manchester (2016) Improving hydropower outcomes through system-scale planning: an example from Myanmar. Prepared for the United Kingdom's DFID.
- Opperman, Hartmann and Harrison (2015) Hydropower within the climate, energy and water nexus. In J. Pittock, K. Hussey & S. Dovers (Eds), *Climate, Energy and Water* (pp. 79–107). New York: Cambridge University Press.
- Opperman, Grill and Hartmann (2015) *The Power of Rivers: Finding balance between energy and conservation in hydropower development*. TNC.
- Hartmann et al (2015) Hydropower Sustainability Assessment Protocol: Official Assessment Chaglla Hydropower Project, Peru.

- Hartmann (2015) Planning and Assessment of Sustainable Hydropower. In WWF, Towards Sustainable Dams and Hydropower in the South Caucasus.
- Hartmann et al (2015) Hydropower Sustainability Assessment Protocol: Official Assessment Semla IV, Sweden.
- Hartmann (2014) Wozu ein freiwilliges Protokoll, wenn es doch Standards gibt? (Why a voluntary Protocol, if standards already exist?) In: Heimerl (ed.) Wasserkraftprojekte Band II: Ausgewählte Beiträge aus der Fachzeitschrift WasserWirtschaft.
- Hartmann (2014) Training Manual - Climate Change and Hydropower Development. GIZ/Network for Sustainable Hydropower Development in the Mekong Countries (NSHD-M).
- Hartmann et al (2013) Hydropower Sustainability Assessment Protocol: Official Assessment Blanda Power Station, Iceland.
- Hartmann et al (2013) Hydropower Sustainability Assessment Protocol: Official Assessment Keeyask, Canada.
- Hartmann, Harrison, Opperman and Gill (2013) The next frontier of hydropower sustainability: planning at the system scale. Report prepared for the Inter-American Development Bank (IDB) by The Nature Conservancy.
- Hartmann et al (2013) Hydropower Sustainability Assessment Protocol: Official Assessment Jirau Hydropower Project, Brazil.
- Hartmann and Harrison (2013) China's International Hydropower Engagement. A China Fund Design Phase Profile. WWF.
- Hartmann et al (2013) Hydropower Sustainability Assessment Protocol: Official Assessment Walchenseekraftwerk, Germany.
- Hartmann et al (2012) Hydropower Sustainability Assessment Protocol: Pilot Assessment Trevallyn, Australia.
- Pittock and Hartmann (2011) Taking a second look: Climate change, periodic relicensing and improved management of dams. *Marine and Freshwater Research*, 62(3), 312–320.
- International Hydropower Association (2010) Hydropower Sustainability Assessment Protocol.
- Hartmann et al (2010) Flowing Forward: Freshwater Ecosystem Adaptation to Climate Change in Water Resources Management and Biodiversity Conservation. World Bank Water Working Notes No 28.
- Hartmann et al (2007) Water for Life: Lessons learnt from 15 years of German Development Cooperation in the Kilimanjaro Region. Embassy of the Federal Republic of Germany, Dar es Salaam.
- Hartmann (2006) Tanzanian Model Case: Tanga. In *Development & Cooperation*, No. 3 2006, Water for Everyone.
- Hartmann and Petersen (2005) "Marketing" Environmental Services: Lessons Learned in German Development Cooperation. In *Managing the Commons: Payments for Environmental Services*. CSMSS/Ford Foundation/Christensen Fund/SEMARNAT/INE.
- Hartmann (2003) Die Problematik freiwilliger Umweltstandards für lateinamerikanische Produzenten am Beispiel FSC (The Problems of Voluntary Environmental Standards for Latin American Producers: The Example of FSC). In Müller & Paquin (eds.) *Kleine und mittlere Unternehmen in einer globalisierten Welt*. Köln.
- Hartmann (1997) Potentiale des Kleingewerbes zur Bewirtschaftung tropischer Regenwälder: Fallstudien aus Dominica und Guatemala (Potential of Small Business in Tropical Forest Management: Case Studies from Dominica and Guatemala). GTZ TÖB FTWF-2.
- Hartmann (1996) Der Stellenwert des Kleingewerbes für die nachhaltige Bewirtschaftung tropischer Regenwälder (The Role of Small Businesses in the Sustainable Management of Tropical Forests). Peter Lang, Frankfurt.
- Hartmann (1996) Criteria for Selecting Natural Resources in Conservation-cum-Development Projects. University of Göttingen, International Small Business Series 22.
- Kraemer and Hartmann (1993) Policy Responses to Tropical Deforestation: Are Debt-for-Nature-Swaps Appropriate? In *Journal of Development and Environment* 2, 2.
- Hartmann et al (1993) In Search of New and Innovative Concepts for Small Enterprise Development in Third World Countries. University of Göttingen, International Small Business Series 15.
- Hartmann (1993) Small Business in Tropical Rainforest Areas. University of Göttingen, International Small Business Series 14.
- Kraemer and Hartmann (1993) Reversing the Trend of Tropical Deforestation: Do Conservationists Waste Money? Universität Göttingen, Ibero-Amerika Institut für Wirtschaftsforschung. Diskussionsbeiträge Nr 57.
- Hartmann and Peters (1990) Informal Small Business in Rural Areas of Developing Countries. University of Göttingen, International Small Business Series 5.