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## Joerg Hartmann, PhD

### KEY QUALIFICATIONS

- 25 years of work experience in over 45 countries
- Broad background in water, energy and natural resources management
- Led multiple project appraisals, audits, sustainability and impact assessments
- Strong partnership development experience with diverse sets of stakeholders
- Effective leader of multi-cultural and remote teams, program and knowledge manager
- Accredited as lead assessor for the Hydropower Sustainability Assessment Protocol
- Professionally credentialed as service provider for the Alliance for Water Stewardship
- Fluent in German, English and Spanish; basic French and Portuguese
- Skilled in writing, presentations, negotiations and communications

### EXPERIENCE

- 2020-Present     Sustainable Water & Energy LLC, Estes Park, Colorado  
*Co-Owner and Principal Consultant, Environmental, Social and Economic Management*
- Researches and communicates sustainability issues and trends
  - Conducts impact and sustainability assessments at the strategic and project levels
  - Advises stakeholders on sustainable water and energy development
- 2012-2019     Independent Consultant, Estes Park, Colorado
- Provided hydropower advisory services: renewable energy policy and trends; regulatory frameworks; regional planning, project selection and preparation; cumulative impact assessments; sustainability and impact assessment guidelines; bank safeguards; eligibility of hydropower for climate bonds; industry and market analysis; expert panel member; quality review of project documents; research and drafting of publications, project evaluations, and funding proposals; capacity building and strategy development with diverse stakeholders (developers, banks, government agencies, NGOs)
  - Provided freshwater and climate change advisory services: training and strategy development on water resources management; advice on river restoration and coastal management (erosion, mangroves); assessment of industrial facilities against Alliance for Water Stewardship standard; forest management for hydrological ecosystem services; climate change impacts on hydropower
  - Conducted sustainability assessments: approximately 30 assessments of hydropower projects using the Hydropower Sustainability Assessment Protocol (HSAP), 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
- 2007-2011     World Wildlife Fund International, Frankfurt, Germany  
*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
- 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), Dar es Salaam, Tanzania (2004-2007)

*Country Director*

- 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

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

- Led task teams for payments of environmental services, sustainable land use, watershed management, debt-for-nature-swaps, and protected areas programs
- 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)*

- Appraised 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

- BMZ-IUCN-WWF (2019) Sediment flow in the context of mangrove restoration and conservation. A rapid assessment guidance manual.
- Mekong River Commission (2019) Preliminary Design Guidance for Proposed Mainstream Dams in the Lower Mekong Basin. Version 2.0. 26 July 2019.
- 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.
- International Hydropower Association (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. The Nature Conservancy: Washington, D.C.
- 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 and 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 fuer 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.