



DR.-ING. BERND RUSTEBERG
Rusteberg Water Consulting UG
Water Resources Engineering
Himmelsbreite 49 / 37.085 Göttingen / Germany
<https://rustebergwaterconsulting.com>
Mobile: +49 (0) 176 8430 1336

RWC
RUSTEBERG WATER
CONSULTING UG

Fields of Activity

30 years experience in research, teaching and consulting in Water Resources Engineering, specifically: Integrated water resources management (IWRM), regional water resources planning, water conflict assessment and prevention, climate change adaptation measures & strategies, decision support systems & tool development, economic & environmental assessments, renewable energies, hydropower generation, management of multi-purpose water resources systems, seawater desalination, water transfer projects, Managed Aquifer Recharge (MAR), irrigation & drainage, inland waterways, hydro(geo)logical modeling.

Studies

- 1983 - 1991 University Hannover: Civil Engineering – Focus: water res. management, hydrology, hydraulic engineering, inland waterways & ports, construction management, sanitary eng. (Dipl.-Ing.)
1986 - 1991 University Hagen: Economics – Focus: Operations Research, statistics
1994 - 1998 University Hannover - Institute of Water Resources Management, Hydrology and Agricultural Hydraulic Engineering: Doctorate (Dr.-Ing.) „Use of saline water for irrigation in NE-Brazil“

Professional Career

- Since 2014 Rusteberg Water Consulting UG
Managing Director
2005 - 2014 University of Göttingen - Center for Geosciences / Applied Geology
Research Associate
2003 - 2005 Free lance consultant in Brazil
IWRM studies for GTZ and several Brazilian Ministries
1998 - 2002 Federal University of Goiás (UFG), Goiania, Brazil
Professorship (DAAD) for Water Res. Management, Hydraulic and Environmental Engineering
1991 - 1998 University of Hannover - Inst. of Water Res. Management, Hydrology & Agric. Hydraulic Eng.
Research Associate

Lectures

- Georg-August-Universität Göttingen – Germany (2007-2014) International Master Program HEG *Water Resources Planning & Management, Applied Operations Research, Surface Water Hydrology*
- Federal University of Goiás (UFG) – Brazil (1998 – 2002) Graduate and Postgraduate Program *Water Res. Planning & Management, Irrigation & Drainage, Flood Protection, Inland Waterways & Ports*
- University of Taubaté – Brazil (1992) International Postgraduate Program financed by German GTZ & ILRI *Applied Hydrology, Principles of Surface Drainage*

Key Projects (Information on most recent projects available on the RWC website)

- 2020 - 2022 IWRM Project The SALAM Initiative (2nd Phase): „Transboundary Strategies for the Resolution of the Freshwater Deficit Problem in the Middle East“, 20 Partnerinstitutions from Germany, Israel, Jordan and Palestine – BMBF Funding
RWC is project initiator and co-coordinator, Services: Water strategy development, IWRM imlementation, transboundary water resources planning for seawater desalination and water transfer, water budgets and conflict potential, scenarios, decision support system.
- 2014 - 2018 IWRM Project BRAMAR: „Water Scarcity Mitigation Strategies and Technologies in Northeast Brazil: Water Reuse, controlled Groundwater Recharge and IWRM“, 21 partner institutions from Germany and Brasil – BMBF funding
RWC is project initiator, Services: IWRM implementation together with Brazilian National Water Agency ANA and state agencies, water budgets, climate change adaptation, technology transfer, decision support.
- 2015 - 2018 IWRM Project SMART-Move „Sustainable Management of Available Water Resources with Innovative Technologies“ 26 partner institutions from Germany and the Middle East, BMBF
RWC is project initiator, Services: Decision support to regional Water Authorities, IWRM imlemention concept, identification and assessment of IWRM measures, water supply security by water allocation modeling, Managed Aquifer Recharge (MAR) planning.

- 2017 - 2019 IWRM Project The SALAM Initiative (Initial Phase): „Transboundary Strategies for the Resolution of the Freshwater Deficit Problem in the Middle East“, 20 partner institutions from Germany, Israel, Jordan and Palestine – BMBF Funding
RWC is project initiator, Services: development scenarios and water budgets on national level, water resources planning options for water production, based on seawater desalination and transboundary water transfer, economic assessment of project alternatives.
- 2006 - 2013 IWRM Projects SMART I/II „Sustainable Management of Available Water Resources with Innovative Technologies“ 40 partner institutions from Germany and the Middle East, BMBF
Services: viability of Managed Aquifer Recharge (MAR), hydro(geo)logical studies, groundwater modeling, Water resources system resilience and system upgrade, water resources allocation, socio-economic assessment in the context of IWRM implementation.
- 2005 - 2009 IWRM project GABARDINE „Groundwater Artificial Recharge based on alternative Sources of Water: Advanced integrated Technologies and Management“, 14 partner institutions from Europe and the Middle East - EU-FP5 funding
Services: project coordination, IWRM implementation, Decision Support System for MAR implementation, multi-criteria assessment of water resources planning options
- 2003 - 2005 Consulting Project „Development Plan for Irrigation in the Federal State of Goiás, Brazil“ – Brazilian Federal Ministry for Regional Development (MDR)
Services: pre-feasibility, hydrologic and economic studies for alternative irrigation projects
- 2000 - 2004 Consulting Project „Sustainable Management of water resources in the Rio Meia Ponte River Basin, Goiás, Brazil“ GTZ- funding (today GIZ)
Services: training courses on water resources management, water budgets, surface reservoir planning and operation, hydrological modeling, decision support to local agencies
- 2000 - 2002 Consulting Project „Implementation of the Tocantins-Araguaia Inland Waterway in Central Brazil“, Brazilian National Department of Transportation Infrastructure (DNIT)
Services: Environmental impact assessment, economic viability, hydraulic modeling.
- 1995 - 1998 Several Bilateral Research Projects in Cooperation with Brazil: Funding Research Center Jülich
Contributions: Irrigation Management for soil salinity control, field and laboratory studies, joint management of surface and groundwater reservoirs, drought analysis, hydrol. modeling
- 1997 - 1997 Consulting Project „Economic feasibility study for the construction of a container port in the Santos estuary, Brazil“ – Hamburg Port Consult. Services: Cost-Benefit-Analysis
- 1991 - 1994 Research Project „Optimal Conjunctive Management of Multi-Purpose Systems with special consideration of Water Quality“, Funding by EU and German DFG – 5 partner institutions from Brasil, Argentina and Germany
Contributions: Development of decision support tools for the management of multi-purpose water resources systems, application to the case study San Juan, Argentina with water supply, irrigation, hydropower generation & conjunctive use of surface and groundwater.

Recent Key Publications on IWRM *(available for download in the RWC website)*

- Co-Editor of the SALAM-Book, entitled: The SALAM-Initiative: Transboundary Strategies for the Resolution of the Water Deficit Problem in the Middle East, 2022, pp.96, ISBN: 978-3-943647-10-5.
- Co-Editor of Theme Booklet: Wassertransfer im Nahen Osten (Water Transfer in the Middle East), German Journal Wasserwirtschaft (Water Resources Management), 112. Jahrg., 7-8/2022, pp.82, ISSN: 0043.0978.
- Co-Editor of the BRAMAR-book, entitled: Water Scarcity Mitigation in Northeast of Brazil (English & Portuguese), published at the World Water Forum in Brasilia, 2018, pp.153, ISBN: 978-3-00-059926-2.
- Co-Editor of the SMART-book: 12 Years of multilateral IWRM Research in the Lower Jordan Valley. Policy Briefs and Key Products. 2019, pp.76, ISBN: 978-3-00-062504-6.
- Co-Author of the Key Issue Paper: Decision Support in the Context of IWRM, BMBF-FONA, 2013, pp.17. https://www.ufz.de/export/data/2/97280_IWRM_Eckpunkte_2013_DSS_final.pdf

Languages Skills

- German: Native
- English: Full Professional Proficiency
- Portuguese: Full Professional Proficiency
- French: Professional Working Proficiency
- Spanisch: Professional Working Proficiency