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Sven Homscheid Hydropower + Renewable Energy Consulting

is an individual company founded in 2013 by Dipl.-Ing. (M.Sc.) Sven Homscheid-Carstens to provide consultancy services for

- Hydropower Projects,
- Water Resources Management, and
- Renewable Energy Utilization.

With its team of collaborators, Sven Homscheid HP+REC advises development cooperation projects, privately owned and government driven projects worldwide.

Services are offered in German, English, Spanish and French.

Our specialty is planning in sensitive areas where balancing economic requirements and environmental and socio-cultural necessities is paramount.

Our objective is to facilitate sustainable development in an intact and healthy environment where humans and nature are seen as unity.

We offer innovative approaches to problems and thinking in holistic concepts for sustainable solutions while yet maintaining a conservative judgement of risks.

Sven Homscheid

Hydropower + Renewable Energy Consulting

assists project owners to successfully implement hydropower and other renewable energy projects from inception to connection, for rural electrification and grid-connected systems.

Technical Studies and Services

- Project identification studies, pre-feasibility studies and feasibility studies
- Design and selection of generating and other equipment
- Design studies and design optimization according to economic, environmental or operational targets
- Tender and detailed design

Economic Appraisals

- Project due diligence
- Economic feasibility studies
- Financial feasibility studies

Project Management

- Employer's Engineer / Employer's Representative
- Construction supervision and site management
- Procurement and management of external services, such as third party studies, investigations and exploration
- Contracts management

Project Development Assistance

- Establishing technical specifications, tender dossiers and tender documents
 - Managing tender processes
 - Mobilizing project financing
 - Developing business concepts and business plans
 - Managing approval processes
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Planning grid integration of renewable energy in small supply systems

- Grid stability analysis
- Generation expansion planning
- Tariff setting strategy
- Energy policy formulation
- Technical aspects of electricity legislation and regulation

Sven Homscheid

Hydropower + Renewable Energy Consulting

offers expertise in

- Hydropower planning & hydropower plant optimization
- Hydrology & Hydrometry
- Topographic survey (with our own equipment) & geographic information systems (GIS)
- Hydraulic analysis of project facilities (rivers, open channels and pipes)
- Layout design & structural design
- Hydro-economic analysis & optimization
- Economic & financial project evaluation
- Elaboration of strategic development approaches of projects
- Development of business plans
- Planning of electromechanical equipment
- Construction planning & project programming
- Project management & quality management

Sven Homscheid

Hydropower + Renewable Energy Consulting

is part of strong international networks and associate of Frankfurt International Advisors (www.frankfurt-advisors.com)

Sven Homscheid Hydropower + Renewable Energy Consulting - Selected reference projects:

GIZ: Bankable Feasibility Study and Business Plan of the Tumatumari Hydropower Project, Guyana:



Feasibility study, including: hydrologic analysis of flows and floods; hydraulic calculations; civil design; power yield calculation; economic analysis; technical specifications; business plan; financial modelling; advise on equipment procurement.

WB: Develop Guidelines for Watershed Management Plan Preparation and Development of One Watershed Management Plan for a Critical Watershed in Saint Lucia:

Review GIS-database and hydrologic modelling software for gap analysis; draft watershed management planning guidelines; collect ecological field data; developing example watershed management plan

UNDP/ J-CCCP: Development of an energy pilot project proposal: LED street lights and PV backup system; Guyana:

Definition of the technical aspects of the project; development of the pilot project proposal, including performance indicators; PV system design; drafting of technical specifications and terms of reference for the accompanying measures

GIZ: Review of the Electricity Supply Act and Related Legislation, Grenada:

Review of the draft ESA and amendment to the public utility commission act

GIZ: Bankable Feasibility Study of the John Compton Dam, St. Lucia:

Topographic survey works; project design; cost estimates; feasibility analysis; registration as CDM project

AUS AID: Installation of a Flood Early Warning System in St. Lucia:

Project management; design of hydrometric network; supervision of equipment procurement process; establishment of hydrologic software model; counterpart training

GoGy: Tender Documents, Procurement and Contracting of the Kato Mini Hydropower Project, Guyana:

Employer's Engineer; project management; establishing the design and build tender documents for the hydropower and parts of the irrigation infrastructure component; assistance during tendering and contract negotiations; capacity building of the client's staff

Caribbean Renewable Energy Development Programme (CREDP-GIZ):

Advisor to the technical cooperation project between the German Ministry of Economic Cooperation and Development and CARICOM; Main activities: Project management of pre-feasibility and feasibility studies and the production of tender documents; contract management; public awareness and capacity building through workshops and seminars

KfW: Conception and review of various designs of mini hydropower projects in Bolivia:

Review of existing designs and design of new hydropower project concepts, including project layout, general design of structures and coordination of project activities; Due diligence to improve the performance of completed projects; General consultancy to the vice-ministry of renewable energies with regards to renewable energy development activities.



UNDP: Newtown hydropower project, Commonwealth of Dominica:

Project management of the feasibility study, tender design and the establishment of tender documents; contract management.

More information and more references can be found on our webpage: www.sven-homscheid.com

Sven Homscheid Hydropower + Renewable Energy Consulting's Clients are

- Private and institutional project developers
- International development agencies
- Consultancy companies
- Government institutions
- Non-governmental institutions
- International development financing agencies
- Electricity utilities

The list of clients includes, among others:

- Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)
- Frankfurt International Advisors
- The Government of Guyana
- The Government of St. Lucia
- Dominica Electricity Services Ltd. (DOMLEC)
- UNDP

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