

Key qualifications

Planning and implementation of renewable energy dissemination programs • renewable energy and energy efficiency advisory, promotion • productive use development • output-based aid components • design and organization of intercultural capacity building interventions • training and lecturing economics, communication, mechanical and electrical engineering • renewable energy system design (ST+PV+Hydro) • energy planning, renewable energy and rural development potential assessment • socio-economic assessment • project monitoring and evaluation, financial reporting and economic analysis • preparation, organization, facilitation of international workshops and conferences.

- 34 years experience in international consulting, working with governments, private companies and communities
- 31 years business involvement in design and promotion of renewable energy applications
- 26 years active in the development, design and installation of renewable energy systems
- 21 years advisory in the field of rural energy policy and planning, legal, policy and regulatory frameworks rural electrification program design and implementation, capacity building in institutional strengthening, RE application and business development, multicultural project development and management
- 6 years experience in the Pacific Region in installing and operating solar systems, in training service staff and in project monitoring
- Experience in the design, implementation and economic assessment of ppp (public/private partnership) RE approaches
- Extensive experience in planning for and leading preparation of rural electrification project feasibility studies
- Long-term experience in reporting and evaluation of the economic, financial, technical, environmental and social aspects of projects for international/bilateral donors
- Experience in design of participatory appraisal concepts, development of appraisal tools
- Experience in the assessment of income-generating RE applications, development of economic evaluation tools

Relevant consultancy assignments

- **Vanuatu** RE rural electrification: Senior rural energy program expert for AusAID
- **Tonga** Energy Road Map: Consultant to the International Renewable Energy Agency IRENA
- **Jordan** Renewable Energy & Energy Efficiency Capacity Building, consultant to InWent
- **Niue** supervision of 52 kW grid-connected PV generation, consultant to the European Commission
- **Southern Africa** INSABA program for productive RE use, consultant to InWent
- **Southern Africa** Business Advisory program, consultant to InWent
- **Philippines** Special Energy Program on rural electrification, consultant to gtz

Links to further documentation

Tonga Energy Road Map	http://www.tonga-energy.to/?p=308
Niue grid-feeding PV	http://www.rep5.eu/Project_Countries/Niue
ADB / SOPAC RE in Fiji	http://www.sopac.org/tiki-download_file.php?fileId=680
INSABA productive use program	http://www.insaba.org
Special Energy Program	http://www.technosol.de/Consult/SEP-Documentation.pdf
Philippines	http://www.technosol.de/Consult/SEP-Finance.pdf http://www.technosol.de/Consult/SEP-Develop.pdf

Applicant's Background

Dipl.-Ing. Heinz-W. Boehnke started international advisory in 1977 with UNDP in Afghanistan. From 1985 on he is also CEO of TECHNOSOL, a company planning and installing solar systems in Germany and internationally.

1990 he took the position as coordinator of the Special Energy Program in the **Philippines**, where gtz (technical support of the German International Assistance) was cooperating with the National Electrification Authority in a **national rural electrification** drive based on solar **PV and hydro-plants**. The work included close cooperation with the **regional utilities** on **rural energy planning**, the development of an RE **electrification strategy** with sustainable **financing models**, organization of a **monitoring & evaluation** system and a comprehensive **capacity building** program. For an improved participatory implementation in remote and island communities an **appraisal tool** was developed. For the **private sector participation** an **output based** public/private partnership (**ppp**) component ProSolar was designed and introduced. The SEP from early on liaised with similar programs RE, such as Sri Lanka, Indonesia, and the SEC in **Kiribati**.

Since 2000 Mr. Boehnke built on the private sector driven RE interventions in **Southern Africa** creating an SADC-wide **business advisory program**. Financed by InWent (capacity building of the German International Assistance) this program offered business training for the **RE-related companies** of the region. This was further enhanced with support from the European Commission under the INSABA program, which focused on the **productive use** of RE technologies in rural development. He coordinated this five-year intervention in which an **evaluation tool** for RE based business concepts was developed.

Since 2008 Mr. Boehnke for InWent led several consultations on the development of a **capacity building** initiative on **renewable energy & energy efficiency** in the Kingdom of **Jordan** which will form a comprehensive training program for the public and business sector and RE based undergraduate courses.

From 2009, he was part of the **Tonga Energy Road Map** process, which is being coordinated by the World Bank. Seconded by the International Renewable Energy Agency IRENA he advises on the **outer island electrification** scheme, where he introduced the **tiered PV approach** to allow for dynamic energy supply to a growing energy demand.

Among the international projects he was tasked to design and supervise in 2009, are the EC-funded 52 kW **grid-connected PV**-installations in **Niue**, and the 24 kWp AC-bus wildlife station of the **wwf** in the **Central African Republic**. All projects receive comprehensive support from initial energy assessment to system design and material selection to installation, commissioning and training of operating staff.

In 2010, he advises the **Government of Vanuatu** within the Governance for Growth (GfG) program. As the senior rural energy program expert for the **Access Power Investment** Program of AusAID he plans the organizational and training support in a business oriented rural electrification initiative.