

Planning and implementation of renewable energy dissemination programs • renewable energy and energy efficiency advisory, promotion • Policy assessment and advisory • 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 • renewable energy and rural development potential assessment • socio-economic assessment • project monitoring and evaluation • financial reporting and economic analysis • budget management and co-financing • organization, facilitation of international conferences.

- **36 years experience in commercial/technical development** and promotion of renewable energy applications
- **30 years practice in the design**, economic assessment and development of RE installations
- **25 years international advisory** in the field of energy policy and reform in developing countries, working with governments, private companies and communities, and in multinational teams:
 - sustainable rural electrification and access to energy program design and implementation
 - develop/analyse policy, legal and regulatory frameworks and strategies
 - conduct and train on economic and feasibility assessments RE, business development
 - develop capacity in institutional strengthening, RE application and business development
- **18 years of experience in developing countries** on national energy sector policy analysis and development.
- **12 years of experience in sector-wide approaches.** Donor coordination under WB guidance as a model for the Tonga Energy Road Map, donor matrix with the Energy Master Plan Myanmar, aid effectiveness and output based support with AusAid in Vanuatu. Public Financial Management and budget support in the context of energy sector reform.
- **10 years of experience in the Asia Pacific region including remote islands** on energy policy and technical advice, RE business advisory, and capacity development.
- 7 years experience in European Commission project coordination, budgeting and monitoring
- **7 years of experience in providing advice to rural electrification** programs (Philippines, Myanmar, Namibia, PICT) including a variety of financing models.
- **Strong experience in capacity building, institutional strengthening and training** of public and private sector stakeholders. Created excellent working relationships with political and professional hierarchies, academic partners, private companies and communities.
- In depth commercial experience in planning, installing RE power systems:
 - Grid integration projects of various sizes and voltage levels
 - Decentralized grid planning, mini-grids, monovalent and hybrid
 - **Energy access; rural electrification** design, sustainable implementation, M&E
 - RE policy, strategy and road map including solar energy, hydropower, biomass, wind power
 - **RE feasibility and economic assessments**, quality assurance and standardization, PPP and innovative financing models; RE based income generation, business advisory, development of productive use tools
- Long-term experience in **reporting and evaluation** of the economic, financial, technical, environmental and social aspects of projects for international/bilateral donors
- Practical experience in creation of **income-generating** RE applications, development of economic evaluation tools

Selected consultancy assignments

- Philippine Access to Sustainable Energy Program, resident team leader for EUD/GIZ, rural electrification
- Tonga Energy Road Map: Consultant to the International Renewable Energy Agency IRENA. Long term consultant to European Delegation on Budget Support and Energy Sector Reform.
- **Tonga** Energy Road Map: Consultant to the International Renewable Energy Agency IRENA. Long term consultant to European Delegation on Budget Support and Energy Sector Reform.
- **Myanmar** strengthening of RE energy policy and capacity development, consultant to **ADB**
- Integrated **Southern Africa** Business Advisory (INSABA), consultant to CDG, EC develop bankable RE business models in South Africa, Namibia, Botswana, Zimbabwe, Zambia
- **Philippines** Special Energy Program on rural electrification, resident consultant with GTZ
- **Mekong** Region (GMS) Renewable Energy capacity development project, consultant to CDG
- **Afghanistan** RE rural electrification planning, capacity building; consultant to GIZ
- Design, installation, service and capacity building on PV hybrid installations for WWF in Central African Republic and the **Democratic Republic of Congo**

Applicant's Background

Dipl.-Ing. Heinz-W. Boehnke entered international advisory in 1977 with UNDP in Afghanistan

Since 1979 he works in the international Renewable Energy business, from 1985 to date as CEO of Technosol, a company planning and installing solar systems worldwide.

1990 he was assigned coordinator of the Special Energy Program in the **Philippines** for GTZ (German International Assistance) cooperating with the National Electrification Authority in a **national rural electrification** programme based on **solar PV and hydro**-energy. 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 **Access to Energy** programme SEP liaised with similar interventions on RE, such as in Kiribati, Sri Lanka, Indonesia, South America and Southern Africa.

From 1999-2001 he advised the **Mekong Region** Renewable Energy program CORE in cooperation with private sector and national energy institutions in **Thailand, Lao, Cambodia, Vietnam, PR China**, during regional workshops on project development, cycle management, quality assurance, economic appraisal, on RE support mechanisms and policy.

Since 2000 Mr. Boehnke contributed to rural electrification in **Southern Africa** and built on these private sector driven RE interventions by forming a SADC-wide **business advisory program**. Financed by InWent (capacity building of the German International Assistance) this program offered business training for regional **RE-related SME**. 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 assumed a coordinative function of this intervention, where an **evaluation tool** for RE based business concepts was developed.

International projects which he was tasked to design and supervise, were e.g. in 2009 the **EC-funded** grid-connected PV-installations in **Niue**, and the PV-hybrid stations of the **wwf** in the **Central African Republic** and in **DR Congo**.

From 2009, he was part of the **Tonga Energy Road Map** process coordinated by the World Bank. Seconded by GIZ to the International Renewable Energy Agency **IRENA** he advised on the outer island electrification scheme.

In 2010 for GIZ, he advised the Ministry of Energy and Water in **Afghanistan** on capacity building. For AusAID to the Government of **Vanuatu**, he was Senior Rural Energy Program expert within the Governance for Growth (GfG) program on **Access Power Investment**.

From 10/2013 on Mr. Boehnke was assigned by the Asian Development Bank to **Myanmar's** National Energy Management Committee on institutional strengthening in energy policy and long-term energy planning.

In 2015 an assignment to **Tonga** for the **European Commission** is to design the EDF11 budget support facility, focusing on building on the Tonga Energy Road Map to 2020.

From 4/2016 on he is acting team leader of the ASEP project to the DOE for a consortium established by the European Delegation in the **Philippines** with the aim of expanded rural electrification.