

Solar PV specialist

Technical design and specifications for EDF 10, Kiribati, Pacific Islands

Design off-grid solar PV systems, mini-grid systems and grid-connected systems and compile technical specifications for EC tender.

Client: European Commission.

Energy Specialist

Solar PV feasibility assessment for Millennium Challenge Account, Namibia.

The project entails the feasibility assessment of grid connected solar PV projects on MCA funded Resource Centres taking into account anticipated electricity cost increases as well as time of use tariffs. The analysis includes feed-in tariff assessments for grant-funded, loan funded and commercially funded PV implementations, *Client: MCA.*

Project management

Implementation of a grid connected 220_kW wind turbine for the Municipality of Walvis Bay, Namibia.

This pilot plant installed at 30_m hub height with a rotor diameter of 25_m, became the first grid-connected wind turbine in Namibia and was implemented as embedded generation to be operated by a Local Authority. Project components included wind resource assessment, generation license, EIA, Quality of Supply, technical design, tendering and contracting.

Client: Erongo Regional Electricity Distributor and DANIDA.

Energy consultant

Design and implementation of a three phase hybrid PV diesel hybrid system, Namibia.

Full demand assessment and sizing of a PV diesel hybrid system. Development of dispatch strategies for optimised system operation. The design is based on a 100_kW power converter with up to 35_kW_{peak} solar PV. *Client: Terranova.*

Financial Analysis

Feasibility of Solar Water Heater implementation in Namibia.

Life cycle cost analysis of Solar Water Heaters in comparison to Electrical Water Heaters. This user-friendly tool, contains a database of towns, tariffs and Solar Water Heaters. Life cycle cost, years to breakeven are presented. *Client: Ministry of Mines and Energy – UNDP/GEF.*