

PROJECT REFERENCE

Assignment Name: Implementation of a single utility scale wind turbine generator in Walvis Bay		Country: Namibia
Project Location: Namibia		Professional Staff provided by your Firm (Specialisation): Project Manager Renewable Energy Expert Utility expert
Name of Client: Municipality of Walvis Bay Erongo Regional Electricity Distributor		No of staff: 2
Address: PO Box 2925 Walvis Bay NAMIBIA		No of staff months/Duration of Assignment: 3 staff month 14 month
Start Date (Month/Year): 01/2005	Completion Date (Month/Year): Ongoing	Approx value of Services (Current US\$): \$85,000
Name of Associated Consultants (if any): PA Energy A/S – Peter Ahm AGAMA Energy – Glynn Morris PolyTechnic of Namibia – Bernard Siepker		No of Months of Professional Staff provided by Associated Consultants: 2 month
Name of Senior Staff Involved and Functions Performed: Axel Scholle – Project leader: Coordination of Team members and activities; Contribution to technical specifications; Compilation of tender documents; Bid evaluation; Contract supervision; Commissioning; Generation licence application; Financial management; Interaction with client; Reporting. Uli von Seydlitz – Quality of Supply specifications; Tender documentation; Evaluation; Commissioning; Grid analysis; Backstopping. Peter Ahm – Technical specifications for wind turbine; Review of wind data analysis; Project support. Glynn Morris – Wind turbine business plan and capacity building. Bernard Siepker – Wind resource assessment and generation simulation.		
Narrative Description of Project: The project entails the installation of a refurbished wind turbine generator (WTG) of 220kW nominal power as a pilot of modern utility scale wind energy exploitation in Namibia and to supplement the power supply at Walvis Bay as embedded generation. The project constitutes the first renewable energy initiative based on wind generation by a Local Authority in Namibia. As a DANIDA funded project one of the main objectives is the capacity building in the assessment of wind energy resources, Environmental Impact Assessments, the operation and maintenance of WTG's, the monitoring and reporting on performance, and the licensing of an embedded generation capacity. The project components are: <ul style="list-style-type: none"> • Wind resource assessment; • Environmental Impact Assessment and Management Plan; • Wind Turbine Generator specifications; • Grid assessment; • Quality of Supply assessment and monitoring; • Business plan; 		



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- **License application for generation.**

Description of Actual Services provided by Your Staff:

- **Project co-ordination and interaction with the client and the community;**
- **Contribution to the technical specifications for the wind turbine generator;**
- **Compilation of tender documents, evaluation and contract arrangements;**
- **Financial management.**

Firm's Name: **EMCON Consulting Group**