

CURRICULUM VITAE

Name of Staff:	von SEYDLITZ, Ulrich Hartmut (Uli)
Profession:	Electricity Industry Consultant, Engineer
Date of Birth:	2 March 1965
Years with Firm/Entity:	Eight years
Nationality:	Namibian
Membership in Professional Societies:	South African Institute of Electrical Engineers. Registered Professional Engineer (Namibia, 1994).

Key Qualifications:

Uli's main areas of expertise are in the fields of electricity industry regulation, commercialisation and restructuring as well as electricity utility management. Uli's professional experience spans eight years as consultant plus nine years management experience in an electricity utility.

Recently he has led on projects related to regulation and assessment of the electricity industry, industry restructuring, tariff development work for utilities and business planning for electricity companies. Uli has proven data modelling and analytical skills coupled with more than twenty years of database design and software development experience. He has more than eight years experience in designing and reviewing tariffs as well as review of financial performance and financial planning for utilities.

Relevant Professional Experience:

- 2010 **Electricity Industry Specialist, Drafting of Rules on Standby Generation in Namibia.**
 Responsible for research on extent of and issues surrounding standby generation, co-generation and small scale grid in-feed in Namibia, co-responsible for drafting rules, workshopping with stakeholders and finalising rules. *Client: Electricity Control Board, Namibia (sub-consultant to Millenium Consolidated Consultancy Services).*
- 2010 **Tariff Specialist, Tariff Review Studies, Namibia.** Tariff review and harmonisation plan update including submission of tariff application to the Regulator. Design and implementation of time of use tariffs. Responsible for full execution of all work. *Clients: Erongo Regional Electricity Distributor, CENORED, Oshakati Premier Electric, Mariental Municipality, NORED Electricity, Namibia.*
- 2009-2010 **Utility Management and Planning Consultant: Corporate Planning Assistance to the Botswana Power Corporation, Botswana.** Assist with the establishment and development of the corporate planning function in Botswana Power Corporation. Improved and revised the corporation techno-financial model and capacitated BPC staff in corporate planning. *Client: Botswana Power Corporation, Botswana.*
- 2009 **Local Industry Expert, Impact Study of the Electricity Supply Industry on the Namibian Economy, Namibia.** Assist the ECB with building a model for assessing the impact of the ESI on the Namibian economy and compiling an initial analysis report. Sub-consultant to Economics Information Services. *Client: Electricity Control Board, Namibia.*
- 2009 **Tariff Specialist, TOU Tariff Model, Namibia.** Development of a TOU tariff evaluation model for the Regulator. Responsible for data collection and analysis and review of the model. Sub-consultant to NewEnergy Consulting. *Client: Electricity Control Board, Namibia.*

- 2009 **Electricity Sector Specialist, Techno-Financial analysis of design options for the Tsumkwe Energy Project, Namibia.** Compilation of a spreadsheet model to assess the financial impacts of various technical design options for the Tsumkwe Hybrid System Energy Project, including performing and documenting the analysis results and drafting issues papers for the Tsumkwe Energy Project. *Client: Tsumkwe Energy project, Namibia.*
- 2009 **Utility and Data Specialist, Analysis of RERA Member ESI Data and Development of Regulatory Database for RERA, Namibia.** Data compilation, analysis and report compilation from survey of RERA member countries. Development of a database system for RERA and import of the relevant survey data into the database. Co-responsible analysis and report writing, fully responsible for database development and data conversion. *Client: AECOM International Development / RERA, Namibia.*
- 2009 **Electricity Sector Specialist, Business Planning and IPP Development for CBEND Project, Namibia.** Business planning, licensing and registrations of a bush to electricity energy project in Namibia. Responsible for advice on business planning, strategic issues, contracting and licensing. *Client: CBEND project, Namibia.*
- 2009 **Utility and Data Specialist, Electricity Management Information System, Namibia.** Extraction of data from billing systems and development of a business analysis database solution to analyse billing data and calculate losses per network. Responsible for full execution of all work. *Client: CENORED, Namibia.*
- 2009 **Electricity Industry Specialist, Drafting of Technical Regulations for the ESI in Namibia.** Co-responsible for reviewing draft regulations, discussing with the ECB and co-drafting revisions to the regulations. *Client: Electricity Control Board, Namibia.*
- 2009 **Tariff Specialist, Tariff Review Study, Namibia.** Tariff review and harmonisation plan update including submission of tariff application to the Regulator. Design and implementation of time of use tariffs. Responsible for full execution of all work. *Client: CENORED, Namibia.*
- 2009 **Tariff Specialist, Tariff Review Study, Namibia.** Tariff review and harmonisation plan update including submission of tariff application to the Regulator. Design and implementation of time of use tariffs. Responsible for full execution of all work. *Client: Erongo Regional Electricity Distributor, Namibia.*
- 2008 **Electricity Business Modeller, Nigeria Infrastructure Advisory Facility.** Develop and populate a business model for the restructured electricity companies and PHCN in Nigeria. *Client: Nigeria Infrastructure Advisory Facility, Nigeria.*
- 2008 **Electricity Industry Specialist, Drafting of Rules on Electricity Re-distribution in Namibia.** Co-responsible for drafting rules, workshopping with stakeholders and finalising rules. *Client: Electricity Control Board, Namibia.*
- 2008 **Electricity Industry Specialist, Investigation into Electricity Re-distribution in Namibia.** Investigating the extent, motivation for and effects of un-licensed electricity re-distribution within the Namibian EDI. Responsible for leading the project, gathering stakeholder information, analysing information and compiling recommendations. *Client: Electricity Control Board, Namibia.*
- 2008 **Utility Management Consultant, Strategic and Business Planning for Erongo RED.** Assist with the development and implementation of strategic and business planning in Erongo RED. Responsible for drafting of business plan, co-facilitation of workshops and assistance with performance management system design. Sub-consultant to CORE International. *Client: Erongo RED, Namibia.*
- 2008 **Tariff Specialist, Tariff Review Study, Namibia.** Tariff review and harmonisation plan update including submission of tariff application to the Regulator. Responsible for full execution of all work. *Client: CENORED Electricity Distributor, Namibia.*
- 2008 **Electricity Industry Specialist, Update of Standard Distribution Network Asset Values, Namibia.** Updating of the standard regulatory asset model database and revaluation of the standard distribution network asset values. Responsible for updating the

- software, setting the asset valuation methodology and reviewing the new asset values.
Client: Electricity Control Board, Namibia.
- 2008 **Software Developer and Analyst, Development of a Regulatory Database, Namibia.** Development of a database software system to be used by the Regulator to collect, store and analyse regulatory data regarding Licensees. Responsible for full execution of all work. *Client: Electricity Control Board, Namibia.*
- 2008 **Local Industry Expert, Namibia IPP and Investment Market Framework Technical Assistance, Namibia.** Assist the ECB with further development of an IPP and investment framework to promote investments in the Namibian power sector. Develop a draft distribution grid code and an integrated resource plan development strategy. Sub-consultant to CORE International. *Client: Electricity Control Board, Namibia.*
- 2007 **Utility Management Consultant, Restructuring of Botswana Power Corporation, Botswana.** Assist with the development and implementation of strategic business units in Botswana Power Corporation. Developed delegation of authority levels and assisted with strategic financial modelling. Sub-consultant to Power Planning Associates. *Client: Botswana Power Corporation, Botswana.*
- 2007-2008 **ESI Expert & Modeller, Macro Economic Study into Renewable Energy and Energy Efficiency in Namibia, Namibia.** Assess to what extent renewable energy and energy efficiency can and should contribute to grid electricity supply in Namibia. Model demand and supply of grid electricity in Namibia for 20 years. *Client: Renewable Energy and Energy Efficiency Capacity Building Project (REEECAP), Namibia.*
- 2007 **Lead Consultant, Performance Monitoring and Evaluation Framework for Namibian Licensees, Namibia.** Assist the ECB with development of a performance management framework in the Namibian power sector. *Client: Electricity Control Board, Namibia.*
- 2006 **Local Industry Expert, Impact Study of Cost Reflective Electricity Tariffs on the Economy of Namibia, Namibia.** Assist the ECB with assessing the economic impact of raising electricity tariffs to projected cost reflective levels. Sub-consultant to ECON Analysis. *Client: Electricity Control Board, Namibia.*
- 2006 **Local Industry Expert, Namibia IPP and Investment Market Framework Technical Assistance, Namibia.** Assist the ECB with development of an IPP and investment framework to promote investments in the Namibian power sector. Sub-consultant to CORE International. *Client: Electricity Control Board, Namibia.*
- 2006 **Project Leader/Tariff Specialist, Tariff Review Study, Namibia.** Annual tariff review including submission of tariff application to the Regulator. Responsible for full execution of all work. *Client: NORED Electricity, Namibia.*
- 2006 **Project Leader/Tariff Specialist, Tariff Review Study, Namibia.** Tariff review and harmonisation plan including submission of tariff application to the Regulator. Responsible for full execution of all work. *Client: CENORED Electricity Distributor, Namibia.*
- 2006 **Industry Expert, Revaluation of NamPower's Assets, Namibia.** Revalue the generation, transmission, distribution, commercial property and aircraft assets of Namibia Power Corporation. Responsible for client contact, distribution valuation, data management. Sub-consultant to MottMacDonald. *Client: Namibia Power Corporation (Pty) Ltd, Namibia.*
- 2006 **Project Leader/Industry Expert, Demand Side Management Study, Namibia.** Assess and recommend demand side management programme options for Namibian electricity industry. Responsible for project management, electricity industry analysis, research and development of DSM options, and workshop co-facilitation. *Client: Electricity Control Board, Namibia.*
- 2004 - 2005 **Project Leader/Industry Expert, Establishment of Three Regional Electricity Distribution Companies, Namibia.** Process to implement ESI restructuring regarding amalgamation of existing electricity distributors into Regional Electricity Distributors (REDs). Responsible for facilitation of and advice to stakeholder committees, business

planning of REDs, compiling network asset registers, compiling license applications.
Client: Electricity Control Board, Namibia.

- 2004 - 2006 **Project Leader, Power Supply Analysis, Namibia.** Analysis of power bills and contracts, assistance with negotiating supply contract consolidation, resolving billing disputes, motivating demand management system investments. Responsible for full execution of all work. *Client: Okorusu Fluorspar Mine, Namibia.*
- 2005 **Industry Expert, Development of a Regulator Strategic Plan, Namibia.** Development of a five year strategic plan for the Namibian Electricity Regulator. Responsible for electricity industry analysis and workshop co-facilitation. *Client: Electricity Control Board, Namibia.*
- 2005 **Project Leader/Tariff Specialist, Tariff Review Study, Namibia.** Annual tariff review including submission of tariff application to the Regulator. Responsible for full execution of all work. *Client: NORED Electricity, Namibia.*
- 2005 **Project Leader, Software Developer, Quality of Service Logging Software, Namibia.** Development of a database software system to be used by all electricity distribution licensees in Namibia for logging customer service performance as required by the Quality of Service standard. Responsible for full execution of all work. *Client: Electricity Control Board, Namibia.*
- 2004 **Tariff Specialist, Training of Licensees in Tariff Methodologies.** Co-responsible for training distribution company officials in the theory and application of the ECB's tariff methodology. *Client: Electricity Control Board, Namibia.*
- 2004 **Project Leader/Tariff Specialist, Tariff Review Study, Namibia.** Annual tariff review including submission of tariff application to the Regulator. Responsible for full execution of all work. *Client: NORED Electricity, Namibia.*
- 2004 **Project Leader/Utility Specialist, Business Plan Development, Namibia.** Development of a electricity distributor business plan. Responsible for project management and technical input relating to technical and commercial issues. *Client: NORED Electricity, Namibia.*
- 2003 - 2004 **Project Leader / Industry Expert, Development of Quality of Electricity Supply and Service Standards, Namibia.** Development of Quality standards appropriate to Namibia, including an implementation and benchmarking framework. Responsible for project management, stakeholder facilitation and technical inputs into the standards and frameworks *Client: Electricity Control Board, Namibia.*
- 2003 - 2004 **Demand Assessment Specialist, Transaction Advisor for 6th Off-Grid Concession, South Africa.** Responsible for developing a demand model for the concession, including scenario analysis. *Client: DME, South Africa.*
- 2003 **Project Leader/Tariff Specialist, Customer Transfer Tariff Impact Study, Namibia.** Tariff impact review for customers being transferred from NamPower to NORED, including submission of tariff application to the Regulator. Responsible for full execution of the work. *Client: NORED Electricity, Namibia.*
- 2003 **Project Leader, Software Developer, Regulatory Electrical Network Asset Register, Namibia.** Development of an electricity network asset register software to be used by all electricity distribution licensees in Namibia, including determination of standard asset values. Responsible for full execution of all work. *Client: Electricity Control Board, Namibia.*
- 2003 **Project Leader/Tariff Specialist, Tariff Review Study, Namibia.** Annual tariff review including submission of tariff application to the Regulator. Responsible for full execution of all work. *Client: NORED Electricity, Namibia.*
- 2002 **Project Leader / Tariff Specialist, Tariff Study, Namibia.** Tariff determination for the first RED to be established in Namibia. Responsible for full execution of the work. *Client: NORED Electricity, Namibia.*

- 2002 - 2003 **Industry Expert, ESI Restructuring Implementation Phase, Namibia.** Process to implement ESI restructuring regarding amalgamation of over 70 electricity distributors into five Regional Electricity Distributors (REDs). Responsible for facilitation of and advice to stakeholder committees, financial modelling of REDs, drafting of issues papers on RED establishment issues, tariff harmonisation. *Client: Ministry of Mines and Energy, Namibia.*
- 2001 - 2002 **Manager, Electrification Planning and Customer Management, Namibia.** Responsible for NamPower's electrification drive, planning and co-ordination with Government electrification drive, management of distribution customers (NamPower).
- 2000 - 2001 **Project Leader, Off-Grid Electrification Business Plan and Socio Economic Baseline Study, Namibia.** Establishment of socio-economic baseline data and an innovative business plan for utility driven off-grid electrification in Namibia. Responsible for project conceptualisation, tendering and project management from client side (NamPower).
- 2000 - 2001 **Electricity Distribution Specialist, Ring Fencing of NamPower, Namibia.** Ring fencing of NamPower into Generation, Transmission and Distribution businesses. Task team member for ring fencing the various businesses in NamPower, particularly responsible for detail inputs into the distribution business work stream (NamPower).
- 1998 - 2001 **Project Leader, Rural Electricity Distribution Master Plan, Namibia.** Development of a comprehensive prioritisation approach and resulting master plan for grid and off-grid rural electrification. Responsible for project conceptualisation, tendering and project management from the client side (NamPower).
- 1996 - 1998 **Utility Specialist, White Paper on Energy Policy, Namibia.** Development of the first comprehensive energy policy document for Namibia. Main representative of NamPower on the core committee developing the Energy White Paper under the Ministry of Mines and Energy.
- 1996 **Project Leader, Farm Electrification Master Plan, Namibia.** Development of a farm electrification master plan for prioritising farm electrification in Namibia, including planning and commercial principles. Responsible for defining the project, determining parameters and execution of the majority of the detail work. (NamPower).
- 1993 - 2002 **Electricity Distribution Network Planning and Customer Service, NamPower, Namibia.** Responsible for the distribution network planning function in NamPower, including related customer service, quotations, material management and specification, drawing office. (NamPower).

Publications:

- 2007 **The Rocky Road to REDs – A Perspective from Namibia.** PIESA-IERE Africa Forum, September 2007, Livingstone, Zambia.

Education:

BSc Engineering (Electrical), University of the Witwatersrand, South Africa, 1989

Employment Record:

- 2002 - present **EMCON Consulting Group.** Partner, Consultant, Namibia
- 1995 – present **ProTrain,** Member, Software Developer, Namibia
- 2001 – 2002 **Namibia Power Corporation.** Manager Distribution, Namibia.
- 1998 – 2001 **Namibia Power Corporation.** Manager Electrification, Namibia.

- 1996 – 1998 **Namibia Power Corporation.** Snr Engineer Marketing & Design, Namibia.
- 1993 – 1996 **Namibia Power Corporation (SWAWEK).** Engineer Design, Namibia.
- 1992 – 1993 **Consolidated Diamond Mines.** Engineer Maintenance Planning, Namibia.
- 1990 – 1992 **Consolidated Diamond Mines.** Junior Engineering positions, Namibia.

Languages:

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
German	Excellent	Excellent	Excellent
Afrikaans	Excellent	Excellent	Excellent
French	Basic	Fair	Basic

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications and my experience.

Date: 2 July 2010

[Signatures of staff member and authorized representative of the firm]

Full name of staff member: Ulrich Hartmut VON SEYDLITZ

Full name of authorized representative: Antonia Jakobus KOEKEMOER (Member)