
Eng. Norbert Semitala
Consultant/Electrical Engineer



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**Academic
Qualifications**

Masters of Business Administration (Finance), Makerere Univ.-2006.
MSc.Electrical Engineering, Makerere University-2001.
Post Graduate Diploma in Electrical Power Distribution
Systems,Norwegian University of Science and Technology, University of
Trondheim-1996.
Bsc. Electrical Engineering (Hons), Makerere University-1992.

Experience

2012- to date Managing Director, NS Engineering Associates Ltd
2007-2012 Director Technical Regulation,Electricity Regulatory
Authority
2003-2007 Electrical Engineer/Consultant, NORPLAN(U) Ltd,
Kampala
2002-2003 Electrical Engineer/Consultant, NORPLAN As, Oslo,Norway
2000-2002 Principal Projects Engineer, UEB
1994-1999 Planning/Standards and Specifications Engineer, UEB
1991-1993 Graduate Trainee Electrical Engineer,UEB

**Industry
Experience**

Project Management and Consultancy
Contract Management
Power Sector Regulation
Renewable Energy Planning and Design
Operation and Maintenance of Power Systems and Power Equipment
Power Systems Planning and Design
Power infrastructure Construction and Power Systems Equipment
Installation

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<p>Languages: English Norwegian Luganda Swahili</p>	<p>Membership to professional bodies</p>	<p>Registered Engineer,Uganda Engineers Registration Board, No.534 Member, Uganda Institution of Professional Engineers(UIPE) Member,IEEE Power Engineering Society, USA Member,Institute of Electrical and Electronic Engineers (IEEE) Inc, USA</p>
<p>Countries of Work Experience: Uganda Norway</p>	<p>Key Qualifications and Experience</p>	<p>With over 23 years working experience, Norbert’s working career began at Uganda Electricity Board (UEB) where he served in various capacities, rising gradually through the various ranks to the senior post of Principal Projects Engineer, in 2001, a post he held until April, 2002 when he left UEB to take on a new assignment with an international Engineering Consultancy firm, <i>Norplan AS Consulting Engineers and Planners</i> and worked in Oslo, Norway as Senior Consultant, and returned to Uganda in March 2003.</p> <p>In the over ten or so years spent at UEB, he acquired significant experience in power system planning, standards and specifications preparation, operations, analysis and design, project planning, co-ordination and supervision, project and contract management for power transmission and distribution projects, having been in the planning and projects divisions and also having worked closely with international consultants as either counterpart and/or co-ordinator on various project assignments at the utility.</p> <p>On return from Oslo, he was employed at the NORPLAN (U) Ltd, Consulting Engineers and Planners office in Kampala, doubling both as Senior Consultant Engineer and as the Manager of the Power and Renewable Energy Division, and finally as Quality Assurance Manager, handling various tasks as either Project Manager and/or Senior Consultant for the different Energy sector related developments as detailed in his CV.</p> <p>He has also been extensively involved, at various stages of his carrier, in the process of procurement of engineering equipment, (specified principally on the basis of IEC); contractors and consultancy services based on both Local and/or International Competitive Bidding procurement procedures. He therefore has extensive knowledge on local procurement guidelines and those of development partners.</p> <p>He concluded a 5 year contract which ran from September, 2007 to September, 2012, in a senior management position, with the Electricity</p>

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Reference-
assignments/
clients

Regulatory Authority, as the Director, Technical Regulation, which he elected, not to have renewed. During that period, he was responsible for providing regulatory oversight of all technical aspects of utilities from Generation through Transmission to Distribution. Among several responsibilities, he was by virtue of this position the Chairman of the Grid Code Committee (GCC), which is the Supreme technical supervisory arm of all Grid operations. He also chaired the Installation Permits Committee (IPC), the Authority that certifies and licenses all Electrical wiremen in the country, for installations up to and including 220 kV. He was also responsible for the technical appraisal and approval of key Renewable Energy Investments licensed by the Regulator. He has since founded and is currently the Managing Director/Lead Partner of a new establishment, NS Engineering Associates Ltd, providing Electrical Engineering and Management Consultancy Services.

Managing Director/Lead Consultant- NS Engineering Associates Ltd.

Consultant for Readiness for Investment in Sustainable Energy (RISE), Country-level Data Collection on Renewable Energy, Energy Efficiency and Energy Access

Client: World Bank Group

Status: Ongoing

Local Co-ordinator/ counterpart Engineer for feasibility study for the Feasibility Study for the 220kV Masaka –Mbarara transmission line being undertaken by Feedback Infra (Pvt) of India

Client:-Uganda Electricity Transmission Company Ltd

Status: 2014-2015

- Technical Advisory services from a regulatory perspective, in respect to Umemes Capex programme.

- Project Engineer for Distribution Project Management Consultancy Services for major system upgrades in and around Kampala.

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Consultant: Mott McDonald

Client: Umeme Ltd

Status: Ongoing

- Energy Specialist for the Ministry of Energy and Mineral Development assignment to prepare Strategic Investment Plan, M&E framework for the medium term.

Client: MEMD

Consultant: CPMER

Status: Ongoing

- Independent Verification Engineer for the World Bank funded Output Based Aid (OBA) project intended to enhance access to electricity in rural areas.

Client: Rural Electrification Agency (REA)

Consultant : KPMG

Status: Ongoing

- Energy Expert in the Project for Technical Planning , Design and Construction Supervision for Solar Powered Mini-piped Water schemes in Rural Areas.

Client: Directorate of Water Development(DWD)

Consultant : JW Technologies Ltd

Status: Ongoing

- Energy Expert (Local Counterpart) on technical assistance to kick-start the Implementation phase of the Sustainable Energy for All (SE4ALL) UN initiative in Uganda.

Client: EU/MEMD

Consultant: MWH, Belgium

Status: Ongoing

Technical Regulation Department- Electricity Regulatory Authority

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The Technical Regulation Department of ERA plays a key role in implementing its mandate in project licensing and ensuring technical compliance of licensed power sector players. During his tenure as the Technical Director, Eng. Norbert Semitala played the lead role in the following:

- Technical review and appraisal of Investment Plans for Licensees
- The Licensee Investments Verification Exercise.
- Technical compliance monitoring of generators, distributors and the transmission company
- Technical capacity planning for the power sector.
- Development and implementation of policies and strategies for the regulation of generation, transmission and distribution of electricity
- Processing of licenses for generators and distributors.
- Technical support to the tariff review/setting process.
- Development of Demand Side Management (DSM) tools and performance benchmarks on production efficiency, customer and environment impact and capital cost technologies.
- Supervision of evaluation of new project application including simulation.
- Chairing the Grid Code Committee and the Installation Permits Committee
- Technical oversight of projects; 18MW Mpanga Small Hydro power project (\$27m/), 6.5MW Ishasha mini hydro power project (\$14m), 13MW Bugoye small hydro power project (\$52m)
- Successful arbitration of billing disputes between the main distributor Umeme and consumers. These include the following:
 - Pramukh steel vs Umeme Ltd
 - Ngege Ice plant vs Umeme Ltd
 - United General Engineering Works vs Umeme Ltd
 - GM sugar Ltd vs Umeme Ltd

NORPLAN(U) Consulting Engineers and Planners

- Independent consultant to translate transboundary projects for upscaling power trade and investment incentives under the Nile Basin Initiative for Nile Equatorial Lakes Subsidiary Action Program-Co-ordination Unit(NELSAP – CU)
- Team Leader/Electrical Engineer for the feasibility studies for the grid power supplementation with off grid private power producers. This project was done for Electricity Regulatory Authority and Ministry of Finance and Economic Development
- Lead local counterpart consultant with NORPLAN AS Oslo for the development of financial forecasting model for Uganda Electricity Transmission Company Ltd
- Local Counterpart Transmission Engineer to Norplan AS of Norway for the feasibility study for the development of four mini hydropower sites of Bugoye, Waki, Muzizi and Nengo Bridge. Client is SN-Power of Norway.
- Electro-Mechanical Engineer responsible for the design of the power system for the sewage pumping station in the Makerere – Katanga – Mulago area. Client is National Water and Sewerage Co-operation(NWSC)
- Project Manager, Kabale Rural Electrification Project – Extension of Phase I, funded by Sida. Client is Ministry of Energy and Mineral Development.
- Local Counterpart Substation Engineer for the Feasibility Study for Kawanda-Masaka 220 kV line for the Norplan AS/Statnett SF JV of Norway. Client was UETCL
- Team Leader/Substation Engineer; on the Economic and Financial Feasibility Study for the Proposed Namanve 132/33 kV, 3 x 40 MVA substation under the World Bank funded Power IV Project for UETCL
- Contributed in the supervision of Electrical Installation works for a new 4000 square metre, three storeyed building complex for the Department of Food Science & Technology, Makerere

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University.

- Electrical Consultant in the design and supervision of Electrical Installation works for Arapai Agricultural College (work involved rehabilitation of eight existing buildings and construction of up to 15 new buildings of which some are double storeyed). Client was Ministry of Education and Sports
- Electrical Consultant in the Electro-mechanical design of the Proposed Relocation of Shimoni Core PTC and Shimoni Demonstration Primary School complex (work involved construction of a number of buildings ranging from 4-level to 1-level, and includes accommodation facilities, classroom blocks, laboratories, libraries, administration and recreational facilities among others). Client was Ministry of Education and Sports
- Nominated representative to witness Factory Acceptance and type tests on behalf of UETCL for 132/11kV, 2 x 20 MVA Power Transformers for delivery to UETCL, Mutundwe Substation, at ABB PowerTech factory in Pretoria West, in South Africa between 5/05/03 to 13/05/03, 7/07/03 to 11/07/03, 31/08/03 to 07/09/03, 15/10/03 to 19/10/03 and 8/12/03 to 12/12/03 respectively. (Total value of Transformers was NOK 5,533,106 - equivalent to USD 922,184).
- Resident Engineer/Project Manager for Norplan As of Norway, Supervised the implementation of the NORAD funded project for Phase III -Extension and refurbishment of UEB 132/33/11 kV for the Substations of Nkenda, Nkonge and Opuyo - Contract 1, and for Lugogo and Mutundwe - Contract 2
- Substation Engineer on the assignment to carry out field investigations and subsequently prepared a report for UETCL on the "Feasibility study for the Economic and Financial Analysis for the Rehabilitation and Extension of the 132/33 kV substations of Mbarara North, Masaka West, Lira and Lugazi", under Nordic Development Fund (NDF) financing. Client was UETCL
- Energy Specialist on the consultant's team for the "Monitoring and Evaluation" component of the ERT (Energy for Rural Transformation) World Bank funded project for the Ministry of

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Health. Client was Ministry of Health

- Procurement Specialist/Alternate Project Manager on the consultant's team for the "Implementation" water-component of The ERT (Energy for Rural Transformation) World Bank funded project for the Ministry of Water, Lands and Environment, with the Directorate of Water Development as implementing agency. Project involves design and supervision for the installation and commissioning of over 700 solar panels of 120 Wp each. (Project Budget -approximately USD 4.2 Million). Client was the Directorate of Water Development
- Preparation of Evaluation Report for the NORAD funded Extension and Refurbishment of 132/33/11kV Nkenda, Nkonge and Opuyo Substations in Uganda. (Contract 1- Phase III) - Approximately 40 million NOK (approx. USD 6.5 Million). Client was UEB
- Preparation of various winning Technical Proposals, among which include:
 - I. Rural Electrification Project (HV Substation and Distribution lines) for Ethiopia Electric Power Corporation (EEPCO) in association with Nor Consult As of Norway.
 - II. Tanzania's Rural Electrification Master Plan Study in joint venture with ELETROWATT-EKONO of Finland and in association with COWI AS of Denmark.
- Submitted various documents for expression of interest to the following Clients, Electricite de Laos (Laos), UEB, UETCL and EEPCO (Ethiopia)

Uganda Electricity Board (UEB)

Before its unbundling and subsequent disbandment, UEB was the sole generator, bulk supplier and distributor of electric power in Uganda. Eng Norbert Semitala started as a graduate trainee in UEB, rose through the ranks, and served in various capacities from 1993 up to 2002. His contribution included but were not limited to:

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- Urban Power Rehabilitation Project (*approx. 25 million USD*), was responsible for co-ordination of all project activities (including the turnkey construction of 140 km, 33 kV Apac Masindi line) on the side of client. *ADB Funded*
- Contract management, supervision and coordination of activities for the Jica IV Rural Electrification Project (*approx. 12 million USD*), JICA Funded which involved Installation of 4 x 33/11kV substations and construction of 4 lines (Njeru-Kayunga-Baale, Budondo-Mbulamuti, Hoima-Munteme, Wabigalo-Migyera) approximately 200 km in total of 33kV (i.e. 2 components, substation and line constructions)
- Planning and procurement for *Owen Falls Extension Project (OFE)- POWER III, Multilateral financing (NORAD, SIDA, WORLD BANK, NDF, ADB, UEB)*. This involved extension of three 132/33/11 kV substations of Kampala North, Lugogo and Mutundwe, Supply of Air Break Switches and Fused Disconnectors, Installation of a 33 and 11 kV distribution fault finding system, supply of two 40 MVA, 132/33 kV and 132/11 kV Transformers, relay co-ordination and planning system
- Counterpart Planning Engineer for Load forecast – Uganda’s Load Forecast and Hydrology of the Nile River Optimisation Study conducted by Electricité de France (EDF)
- Counterpart Engineer for IVO Consulting Engineers of Finland for the Update of Distribution Standards for UEB, that were eventually used in the Loss reduction study described below
- Participated in the Distribution Loss Reduction Planning Study as *Counterpart planning Engineer* for the urban towns of Kampala, Jinja and Tororo conducted by IVO Consulting Engineers of Finland
- Planning of power system by carrying out computer aided load flow analyses using PSSE software, in order to initiate system improvements as a graduate trainee

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Training and
Conferences

November (18th-21st) 2014, Grand Copthorne Waterfront Hotel,
Singapore

International training course on "Power Purchase Agreement"

April 2012 -Fairmont Hotel, Dubai, UAE

Five day (April 8 -12)-*"Leading and Managing People"* course, conducted
by Management Training and consultancy Ltd (MTC) of London, UK

March 2011, *African Utility Week*, Cape town International Conference
Centre, Cape Town, South Africa.

Attended a number of presentations which included aspects of smart
grids, Renewable energy Technologies, Financing infrastructure projects
and many aspects of Transmission and distribution.

April 2010, International Conference Centre, Abuja, Nigeria

*Presented a paper (Addressing Africa's Infrastructure Development
Challenges -What Regulators in Africa and elsewhere are doing) at a three
day conference on the theme Global Economic Crisis: Implications and
challenges for utility regulation in Africa.*

Sept 2010, Renewable Academy (RENAC), Berlin, Germany

5 day TREE seminar on Wind/PV Hybrid Systems and Micro Grids

July 2010, Conducted by Public Utility Research Centre, University of
Florida at Serena International Conference Centre Kampala Uganda.

Workshop on *Executive Leadership, Strategic Planning and
Organizational Development in Utilities Regulation*

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March 2010, Mombasa Serena Beach Hotel, Mombasa, Kenya
Five day (March 22nd-26th) *Corporate Governance* training for Company Directors.

Dec 2009, GTIEA/EATTA/UNEP training workshop on small Hydro power project (SHP) finance for Bankers and Insurance Companies. Participated as *resource person* on aspects of policy and regulatory issues in SHP held in Nairobi, Kenya

July 2009, IP3 (Institute of Public Private Partnerships), Arlington, Virginia, USA-*Training on Regulating Quality of Service: Planning, Compliance Monitoring and Enforcement for PPP projects.*

April 2009, The Power & Electricity World Africa Conference
Sandton Convention Centre, Johannesburg, South Africa

Nov 2008, IP3 (Institute of Public Private Partnerships), Washington DC, USA -*Training on Independent Monitoring and Evaluation of Development Projects.*

Sept 2008, *The East African Power Industry Convention 2008*
Grand Regency Hotel, Nairobi Kenya

July 2008, GTIEA/EATTA/UNEP study tour on hydropower development conducted in Sri Lanka and Nepal -*Study tour to appraise Small Hydro power developments*

March 2008, Applied Energy Solutions, Sandton, South Africa
Training on Power Systems Simulation. Course is accredited to South Africa Institute of Electrical & Electronic Engineers (Code :SAIEE – 0072V

Jan 2008, PURC (Public Utilities Research Centre), University of Florida, Gainesville, Florida, USA-*Training on Public Utility Regulation and Strategy.*

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Sept 2007, CREEC (Centre for Research and Energy Conservation), Makerere University, Kampala - *Training on Pico Hydro design and Implementation*

March 2007, CECORE (Centre for Conflict Resolution)/SAFERWORLD training Imperial Resort Beach Hotel, Entebbe - *Training on conflict-sensitive approaches to development*

June 2004, International Center for hydropower (ICH), Trondheim, Norway - *Hydro Power Development and Management in the context of integrated water resources Management.*

Aug 2001, Mauritius Sugar Authority/AFREPREN, Quatres Bornes, Mauritius

Energy training Course on Power Sector Reforms- Implications for the Co-generation industry

Dec, 2000, Fintech (Uganda) Ltd

Training on Microsoft packages, MS- Word, Excel, Access, PowerPoint and MS Projects.

Aug - Sept 2000, International Center for hydropower (ICH), Trondheim, Norway. Hydropower and the Environment

May 2000, Stat Kraft SF and Statnett SF, Oslo Norway.

Economic Power Dispatch in liberalized / deregulated Power Markets

July, 1998, Electricité de France (EDF), Paris & Rene', France

Load Forecasting Techniques

Aug - Oct, 1997, SwedPower, Stockholm, Sweden

Advanced training in Electricity Distribution Management

Aug, 1994, Management Training and Advisory Centre (MTAC),

Kampala, Uganda - *Project Planning and Implementation*

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Mar 94 – Sept 94, Makerere University, Kampala, Uganda-
Post graduate training in Project Planning and Management

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Date.....

Signature.....
