



Consulting Engineers & Planners



Canal Construction at Bugoye Hydro Power Project

POWER AND RENEWABLE ENERGY DIVISION

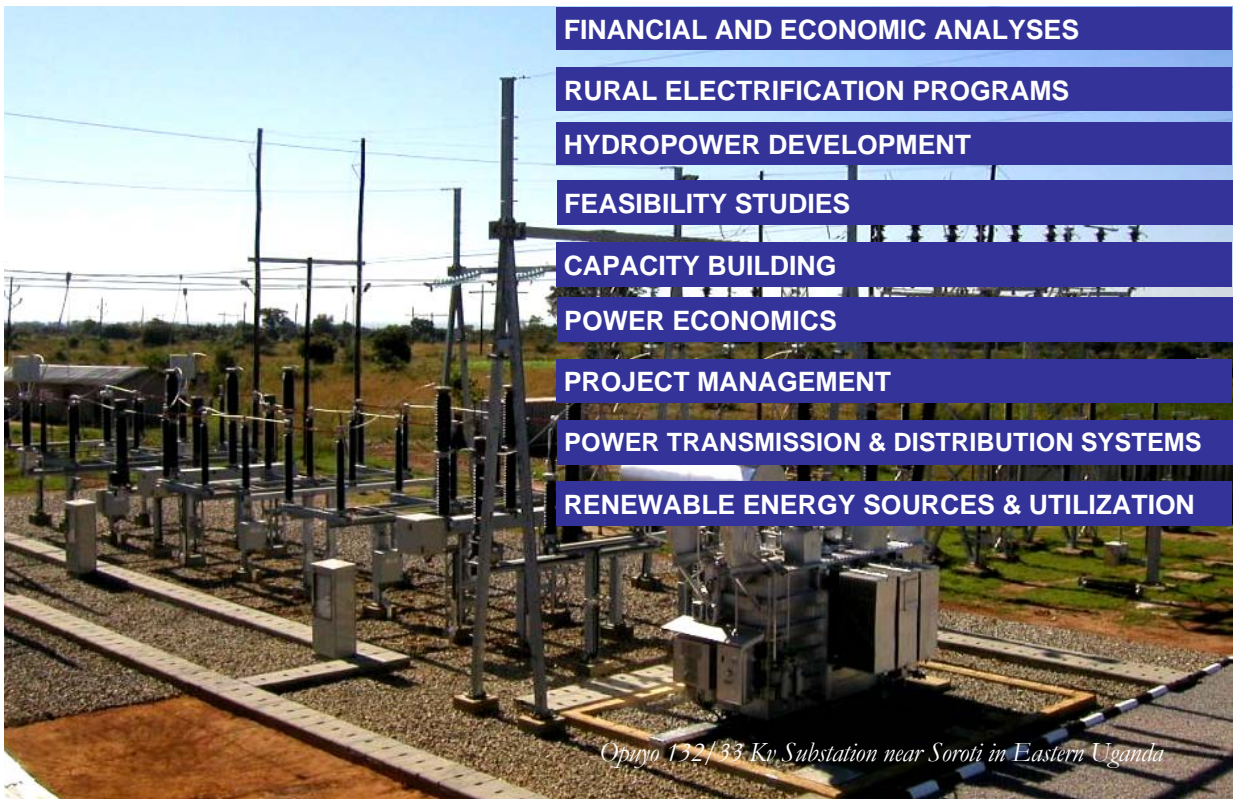
The improvement of the electrical sector has been of paramount importance to all the stake holders in the energy sector in Uganda. The Power and Renewable Energy Division of **NEWPLAN Limited** specializes in promoting energy supply.

The division provides innovative solutions in the areas of hydropower, solar, wind, Biomass and Geothermal. It offers expertise in all phases of planning, design, construction, operation, maintenance, and management of generation, transmission, distribution, and supply of energy.

We are constantly evolving our skill base, reflecting the diversity and dynamism of our clients and team, and providing comprehensive quality assured services.

This brochure captures a selected range of projects that NEWPLAN Limited has been or is engaged in providing consultancy services from feasibility studies, through design to management of construction.

NEWPLAN Limited invites you to join our satisfied clientele to engage our consulting team in seeking solutions to your power and energy challenges.



FINANCIAL AND ECONOMIC ANALYSES

RURAL ELECTRIFICATION PROGRAMS

HYDROPOWER DEVELOPMENT

FEASIBILITY STUDIES

CAPACITY BUILDING

POWER ECONOMICS

PROJECT MANAGEMENT

POWER TRANSMISSION & DISTRIBUTION SYSTEMS

RENEWABLE ENERGY SOURCES & UTILIZATION

Opiyo 132/33 Kv Substation near Soroti in Eastern Uganda



SMALL HYDRO – POWER PROJECTS

NEWPLAN Limited in association with NORPLAN AS was awarded the contract to carry out feasibility studies for 4 potential small hydro power sites in Uganda namely: Waki, Bugoye, Muzizi and Nengo Bridge. The project was being financed by SN Power, a private developer.

The 7.5 MW Nengo Small Hydro Power Plant is currently in the feasibility study stage. Among other activities in this regard, NEWPLAN Ltd has been retained by the project developer, Jacobsen Elektro to carry out a preliminary survey and conceptual Design of the transmission Line for purposes of interconnection of the power plant to the national grid as well as the hydrological, survey and geological studies relevant to the Power Plant. This also includes the Financial and economic analysis for the project.

BUGOYE HYDRO POWER PROJECT (HPP)

The 13MW Bugoye Hydro Power Project is currently in the implementation phase financed by Tronder Power Limited with NEWPLAN Limited supervising the RAP implementation & the construction work for the 7km Transmission line from the Power house to Nkenda Substation as well preparation of working drawings and construction supervision & quality control related to the Small Hydro power plant.



TECHNICAL ASSISTANCE TO UGANDA ELECTRICITY BOARD (UEB) (1997-2005)

NEWPLAN in association with NORPLAN AS is

providing technical assistance, in phases, to UEB under the NORAD funded project for the extension and refurbishment of 132/33/11 KV substations of Lugogo, Mutundwe, Kampala North, Lira, Tororo, Owen Falls, Nkonge, Kabulasoke, Opuyo and Nkenda as well as supply of 11 kV and 33kV airbreak switches and fused disconnections.

ENERGY FOR RURAL TRANSFORMATION: IMPLEMENTATION OF WATER COMPONENT

(2003 – 2009)

NEWPLAN provided technical assistance to the Directorate of Water Development (DWD) in identifying the least cost energy solutions to over 16 rural water supply schemes in West Nile, Northeastern and the Western regions of Uganda. This project was handled jointly by both this division and Water and Sanitation Division of NEWPLAN Ltd.

The services provided by NEWPLAN encompassed all aspects of the implementation of the ERT water:

- Study of the technical aspects of the development of the standard energy packages, energy options, scheme selection criteria and implementation strategy
- Development of a capacity building plan
- Institutional and implementation aspects
- Coordination and administration



RURAL ELECTRIFICATION PROJECT IN UGANDA SIDA PHASE II

NEWPLAN Limited in association with NORPLAN AS were awarded a contract by Ministry of Energy and Mineral Development to carry out construction supervision on four transmission lines namely; - 45 km 33Kv main distribution line from Rugombe to Kyenjojo in Kyenjojo District; 95 km 33Kv main distribution line from Fortportal - Bundibugyo - Nyahuka in Fortportal and Bundibugyo Districts; 130 km 33Kv main distribution line from Kona Kilak - Patongo -Abim with a T-off to Kalongo in Pader district; 30 km 33Kv main distribution line from Namayemba - Namutere in Bugiri District. The project is funded by SIDA.

FEASIBILITY STUDY FOR THE PROPOSED 220KV KAWANDA MASAKA TRANSMISSION LINE (2002 - 2005)

NEWPLAN Limited in association with NORPALN AS, was subcontracted by NORPLAN AS to carry out a feasibility study for the proposed 220KV Kawanda - Masaka Transmission Line.



ASSESSMENT OF THE APPROPRIATENESS OF WINDMILL TECHNOLOGY FOR PUMPING WATER (Near Moroto town, Karamoja District, Year 2004.)

In order to improve on the energy usage in Uganda, there is a need to explore alternative energy sources hence the assessment of the appropriateness of Wind Mill Technology for pumping water.



Windmill technology assessment, Karamoja

KITANTE TURNKEY SUB-STATION

July 2007 – April 2009. (Client: UMEME Ltd)

NEWPLAN Limited is in a turn key consortium with ABB Ltd (the Consortium Lead, as well as responsible for the Electrical component.) NEWPLAN is involved as the consultant for the complete design and construction supervision of the civil works component.

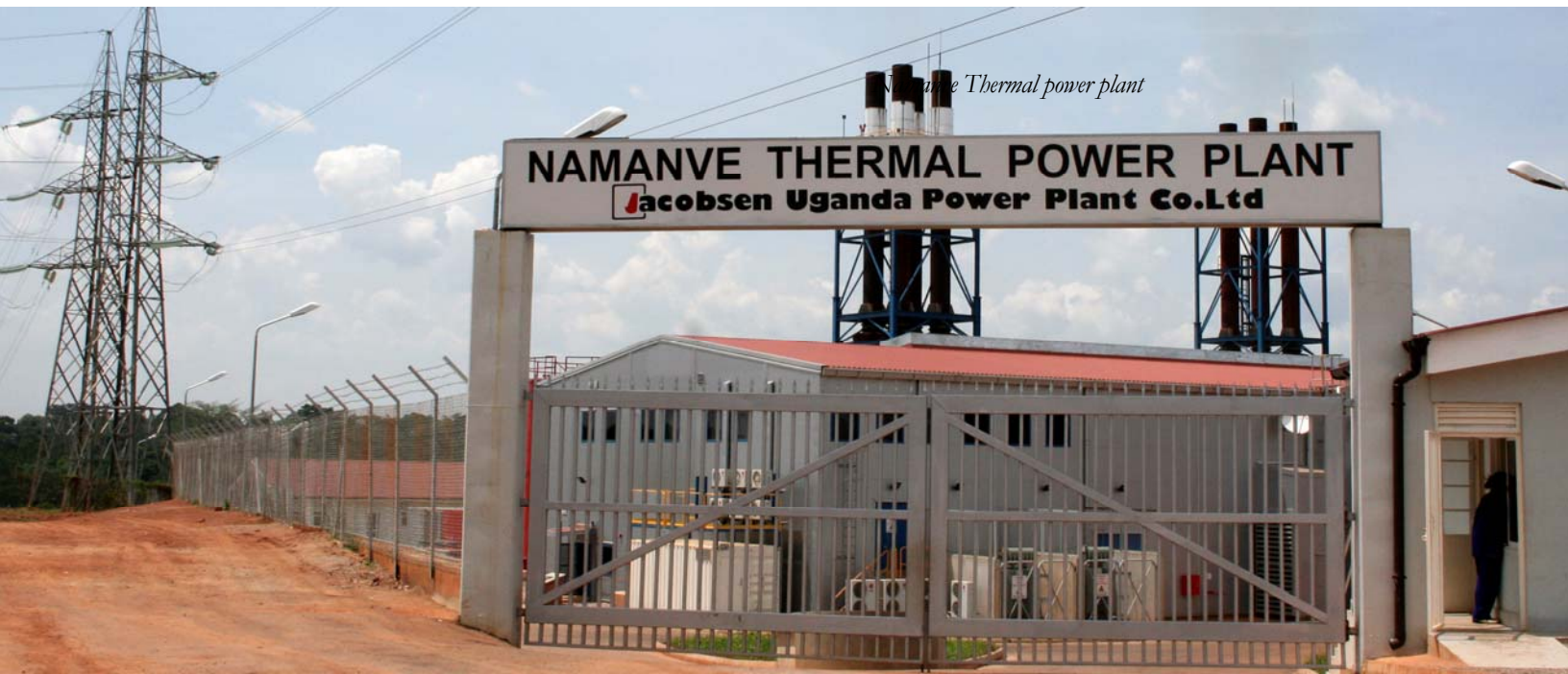


Fabrication of turbine for transmission base station

NAMANVE THERMAL POWER PLANT

Client: Jacobsen Uganda Power Plant Co. Ltd

Services offered by NEWPLAN Limited included Environmental Monitoring, Supervision of Construction, Cost Control and Quality Assurance. The project began in November 2007 and completed in August 2008, 3 months ahead of schedule.



Namanve Thermal power plant



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Kitante Turnkey Substation



Diversion of River Mabuku for dam construction

NEWPLAN Limited
Crusader House
1st floor, Plot 3 Portal Avenue
P.O. Box 7544, Kampala, Uganda

telephone: + 256 414 340243/4/5
fax: + 256 41 257 861
e-mail: info@newplan.ug
website: www.newplan.ug