



**NEMEL KENYA LTD**  
**ENERGY CONSULTANTS**

THE LEADING ENERGY CONSULTING FIRM



# ABOUT US

## CORPORATE STATEMENT

Nemel Kenya is in the business of creating value to our esteemed customers by providing prompt, efficient and effective service.

Our motto is to meet our customers' expectations at all times.  
Adherence to professionalism and stringent ethical standards is our biggest strength.

We pride ourselves as a leading Energy Consulting firm in the Region and serve a wide range of customers across East Africa.

We provide affordable and reliable consultancy services.  
Our goal is to enhance corporate value, maintain sustainable long-term development and generate greater returns. In order to better achieve the above objectives, we have established good corporate governance practices following the principles of integrity, transparency, openness and efficiency.

## BASIC INFORMATION

Nemel Kenya Limited provides consultancy services in all energy related fields including but not limited to power generation, transmission, distribution and energy planning and management. Nemel Kenya is registered by the Engineers Board of Kenya (EBK) as a Consulting firm.

The company was incorporated in 2014 as a limited liability Company.

It has a staff compliment of 11. The number is expected to grow with increased number of services provided.

## OUR MERITS

- i. Creative approach to our clients needs
- ii. Team composed of highly skilled and experienced persons
- iii. Application of a highest professionalism in the execution of assignments
- iv. Strong technical and managerial background
- v. Stringent adherence to ethical standards
- vi. Availability 24/7





## VISION

To be the leading provider of Consultancy Services in energy field in Kenya.

## MISSION

To provide efficient, cost effective and quality service to our clients by a well-motivated team that prides in ensuring that the environment is kept sustainable.

## CORE VALUES

Committed to Excellence  
Professionalism  
Efficacy  
Hard work  
Team Work  
Integrity

## CORPORATE SOCIAL RESPONSIBILITY (CSR)

Nemel Kenya Limited prides itself in valuing Corporate Social Responsibility. Currently the organization is involved in activities meant to uplift the living standards of orphaned and people living in arid and semi-arid areas in Kenya.



# SERVICES

- a Technical, Environmental and Economic feasibility studies
- b Project conception, planning and design
- c Project management
- d Development of framework for Power purchase Agreements
- e Advisory services for Power Purchase Agreement.
- f Advisory services for entry into power market in East Africa
- g Power Tariff development
- h Power system planning, detailed engineering studies and design
- i Economic and Financial Analysis
- j Strategic Planning
- k Expert advice on Power Generation: Solar, Wind, Thermal, Geothermal and Hydro
- l Expert advice on Energy Policy and Regulatory Framework
- m Expert advice in drafting Energy Act
- n Power Transmission and Distribution design and supervision
- o Supervisory Control and Data Acquisition (SCADA) and Energy Management Systems
- p OPGW fiber communication
- q Specifications of power system equipment
- r Energy audits
- s Tender preparation services
- t Advisory services on logistics
- u Representative of Maschinenfabrik Reinhausen (MR) Germany in Kenya
- v Distributor of DV Power (Sweden) electric test equipment in Kenya
- w Distributor of IPEC (UK) partial discharge test equipment in Kenya
- x Distributor of Sertec (Paraguay) lightning protection equipment in Kenya



# OUR EXPERIENCE

Duration	Assignment name/ brief description of main deliverables/outputs	Name of Client & Country of Assignment	Approx. Contract value (in US\$ equivalent)	Role on the Assignment
Oct 2015 - Dec 2016	<p><b>Assignment:</b> Suswa Lake Turkana Wind Farm 400kV Transmission Line – Line Implementation Progress</p> <p><b>Main deliverables/outputs:</b> Advised LTWP/KETRACO on most effective methods to fast track wayleaves acquisition for the construction of the 400KV transmission line. Several Kilometers of right of way were acquired. Total length of line 428 Kilometers.</p>	<p><b>Client:</b> Lake Turkana Wind Farm</p> <p><b>Contact Information:</b> Pylip Leferink General Manager - LTWP</p> <p><b>Country:</b> Kenya</p>	USD \$85,000	Sole Consultant
Nov 2015 – Feb 2017	<p><b>Assignment:</b> Nanyuki – Rumuruti 84 Kilometer 132KV transmission line. Line – Construction Progress</p> <p><b>Main deliverables/outputs:</b> The Consultant shall provide the Company with advice on expediting the completion of the Nanyuki- Rumuruti line by KETRACO. In particular, the Consultant shall: Identify issues that are impeding KETRACO's progress in wayleave acquisition and construction of the line project. Challenges were identified and line completed.</p>	<p><b>Client:</b> Kenergy Solar Firm</p> <p><b>Contact Information:</b> Khilna- Director KENERGY</p> <p><b>Country:</b> Kenya</p>	USD \$20,000	Sole Consultant

Duration	Assignment name/ brief description of main deliverables/outputs	Name of Client & Country of Assignment	Approx. Contract value (in US\$ equivalent)	Role on the Assignment
Sept 2017 – Dec 2019	<p><b>Assignment:</b> Energy Consumption Study – World Bank Project</p> <p><b>Main deliverables/outputs:</b> Collect energy consumption data in Kenya and use the Model of Analysis of Energy Demand (MAED) to analyze information on the pattern of energy consumption in Kenya. The outcome of the study was a report which would be used the Ministry of Energy Least Cost Power Development Committee to forecast power demand. This survey will directly complement the demand datasets being developed as part of the Multi-Tier Framework Survey, which was recently launched in Kenya to estimate the quality of energy access nationally. The study was submitted in December 2019.</p>	<p><b>Client:</b> Energy Institute HRVOJE Pozar of Croatia.</p> <p><b>Contact Information:</b> Dr. Mutua Energy and Petroleum Regulatory Authority (EPRA)</p> <p><b>Country:</b> Kenya</p>	Euro €25,000	Sub-Consultant
July 2018 – Dec 2019	<p><b>Assignment:</b> 40MW Solar PV Plant and associated 132 KV Transmission Line Development at Kibwezi , Kenya</p> <p><b>Main deliverables/outputs:</b> Carried out a study to determine the best location to construct a 40MW Solar PV plant. Carried out a grid connectivity study to find out the best location to connect the evacuation line to the national grid. Advised on the process of the acquisition of the right of way. Grid connectivity study report provided Report on the best location provided Process of getting the Plant's Commercial Operating Date ( COD) ongoing.</p>	<p><b>Client:</b> SunPower Africa Development - Mauritius</p> <p><b>Contact Information:</b> Mr. Rajeev BundhooCEO</p> <p><b>Country:</b> Kenya</p>	USD \$40,000	Sub-Consultant

Duration	Assignment name/ brief description of main deliverables/outputs	Name of Client & Country of Assignment	Approx. Contract value (in US\$ equivalent)	Role on the Assignment
Nov 2018 – Aug 2020	<p><b>Assignment:</b> Last Mile Connectivity Project (LCMP)</p> <p><b>Main deliverables/outputs:</b> Provided eight (8) Engineers to work as Cluster/ Site Supervisors in four regions in Kenya. These engineers were supervising contractors who were constructing 204 Kilometers of Medium voltage distribution lines and 3,536 Kilometers of low voltage service lines. They were installing 231 distribution transformers and connecting 88,392 households.</p>	<p><b>Client:</b> Kenya Power &amp; Lighting Company (KPLC)</p> <p><b>Contact Information:</b> Trivanovic Milan Project Manager - AF- Consult, Nairobi</p> <p><b>Country:</b> Kenya</p>	USD \$457,950	Sub-consultant to AF Consult
May 2018	<p><b>Assignment:</b> 140MW Longonot Geothermal Power Plant.</p> <p><b>Main deliverables/outputs:</b> Carried out a grid connectivity study to determine the best connectivity solution and the required network reinforcement to evacuate the proposed 140MW from the geothermal power plant</p>	<p><b>Client:</b> Mr. Patrick Nyoike Kenya Representative</p>	US\$18,000	Sole Consultant
March 2020	<p><b>Assignment:</b> 40MW Solar PV Plant and associated 132 KV Transmission Line Development at Kibwezi , Kenya.</p> <p><b>Main deliverables/outputs:</b> Carried out National grid power transmission system simulation to determine the capacity of the existing Juja - Rabai 132KV line to find out if it can evacuate 40MW from the solar PV plant.</p>	<p><b>Client:</b> SunPower Africa Development - Mauritius</p> <p><b>Contact Information:</b> Mr. Rajeev Bundhoo CEO</p> <p><b>Country:</b> Kenya</p>	US\$20,000	Sole Consultant

Duration	Assignment name/ brief description of main deliverables/outputs	Name of Client & Country of Assignment	Approx. Contract value (in US\$ equivalent)	Role on the Assignment
June 2021- Sept 2022	<p><b>Assignment:</b> Last Mile Connectivity Project</p> <p><b>Main deliverables/outputs:</b>            Provided 6no. Engineers to work as Cluster/ Site Supervisors in two regions in Kenya. These engineers are supervising contractors who are constructing 152 Kilometers of Medium voltage distribution lines and 1,665 Kilometers of low voltage service lines. They are installing 133 distribution transformers and connecting 28,083 households.</p>	<p><b>Client:</b> The Kenya Power and Lighting Company (KPLC) Limited</p> <p><b>Contact Information:</b>            Nicholas Budotich            Project Manager (KPLC)</p> <p><b>Country:</b> Kenya</p>	Nemel Kenya US\$472,800	Consortium of 4 companies (Nemel Kenya, Log Associates, Newplan and Colenco)



Circuit Breaker Testing



MR Tap Changer Vacutap VR



Partial Discharge Monitoring



Lightning protection for wind farms



Transformer Testing



Battery Capacity Testing

# TEAM

## **JOEL KIILU** **Director**

Eng. Kiilu is a former Managing Director of the Kenya Electricity Transmission Company Limited (Ketraco).

Eng. Joel Kiilu is a registered Consulting Engineer. He holds a Masters Degree in Business Administration (MBA) specializing in Strategic management, from the University of Nairobi and a Bachelor of Science (BSc.) degree in Electrical Engineering from the same university. He is currently pursuing a PhD in Management and Leadership at Management University of Africa.

Eng. Joel Kiilu has vast knowledge of the power industry, having been the Chief Manager - Energy Transmission in Kenya Power and Lighting where he was in charge of high voltage system design, construction, operations and maintenance. He was in charge of power purchase agreements and energy dispatch, SCADA and Energy Management System. Eng. Kiilu participated in drafting and negotiating Power Purchase Agreements between:

- i. Kenya Power and Lighting Company Ltd and Kenya Electricity Generation Company Ltd (Thermal, Geothermal and Hydro Power).
- ii. Kenya Power and Lighting Company Ltd and Rabai Power Company Ltd (Thermal power).
- iii. Kenya Power and Lighting Company Ltd and Mumias Sugar Company Ltd (Thermal power).

As the Chief Executive Officer of Ketraco, he was responsible for the establishment of the organization, including the necessary structures, policies and procedures and overall operation of the organization. Under his leadership the company grew, in 6 years, from an asset base of US\$80Million to over US\$600Million.

Eng. Kiilu is also among the team members of Castalia working on the World Bank funded project Scaling-Up Power Transmission in Africa (SUPTA).

Eng. Kiilu is a member of the Institution of Engineers of Kenya (MIEK), and the Institution of Electrical and Electronic Engineers (MIEEE).

Eng. Kiilu is a member of of the Council of Kirinyaga University, a Board of Governor of Masai Technical Training Institute and the Chairman of Machakos Water and Sanitation Company.





**EMMA WANJIRU**  
**Director**

Eng. Emma Wanjiru has a wealth of experience in energy matters. She is a practicing Consulting Engineer as well as a Contractor. She has a Class A1 license in Electrical installations and class T3 license in solar installations.

Eng. Emma Wanjiru is a past chairperson of Energy Regulatory Board (ERC). ERC is the Commission that regulates the operations of power utilities in Kenya. Besides issuing power generation licenses, the body sets power both bulk and retail energy tariffs and approves power purchase agreements.

Emma served as a director of Rural Electrification Authority. Emma prides herself for being the first woman to be a Registered Consulting Engineer. She holds a Bachelor of Science degree in Electrical Engineering and a Masters degree in Business Management both from the University of Nairobi. She is currently pursuing a MSc in Energy at the same university.

**ENG. JOB GITHINJI**  
**Head of Operations**

Job, who holds an electrical engineering degree from the Technical University of Konstanz, Germany, has over 25 years of experience in the energy sector. Job's expertise spans medium and high voltage transmission lines and substations, distribution systems, generation engineering plant and infrastructure. Job has been involved in the energy transmission, distribution and generation sectors in Kenya, Uganda, Tanzania and South Sudan. Specific experience includes design and construction supervision of transmission lines and substations including EPC contract administration and quality assurance procedures, network reconfiguration, commissioning, operation and maintenance of electrical equipment. Job is also an expert in negotiating Power Purchase Agreements.

Eng. Githinji has been involved in feasibility studies, conceptual designs, tender document preparation, tender evaluation and procurement of contractors for World Bank and African Development Bank funded projects. Job has an extensive understanding of the infrastructure development dynamics and potential in the African region, having been involved in business development of projects covering multi-purpose dams with power generation, power transmission, water supply and irrigation components, roads and railways, ports and oil refineries.





Battery testing demonstration session at EATON premises

## **MARK MAKANGA** **Director**

Mr. Makanga is an expert in ICT. He holds a Bachelor degree in Business and Information Technology from Strathmore University and a Masters degree in Information Communication and Telecommunication from University of Nottingham, United Kingdom. Before joining Nemel Kenya, he has been a director of Technosal, an ICT firm dealing in design, installation and implementation of ICT systems for several firms in the country.

## **ASSOCIATED CONSULTANTS**

<b>JAMES WAHOGO</b>	Power purchase agreements expert
<b>STANLEY K. MUTWIRI</b>	Power distribution specialist
<b>PETER MARTIN</b>	Transmission lines and substation expert
<b>NOAH KIPKURUI</b>	Environmental and safety expert
<b>KIPROTICH TEITO</b>	Civil construction engineer
<b>EARNEST KIANO</b>	Power economist
<b>HELEN HOKA</b>	Economist







IPEC Distributors' Conference in Penang Malaysia



Certificate presentation after IPEC Training Seminar in Penang Malaysia



DV Power Conference in Nairobi



Director's Address during a MR Conference in Nairobi



Discussion session at a DV Power Workshop with customers



MR Conference preparation by Nemel Kenya staff



DV Power presentation during a Substation Diagnosis College seminar




# OUR PARTNERS



# OUR CONTACTS



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