CURRICULUM VITAE

**1. PERSONAL INFORMATION**

NAME : Paul Nzomo Mbuthi

NATIONALITY : Kenyan

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| **2. PERSONAL PROFILE** |
| Mr. Mbuthi is a successful and highly experienced energy planning specialist and researcher, with a continuous energy-sector management experience spanning 30 years. He has excellent communication, inter-personal and leadership skills. He is well skilled in project planning and management, data collection, collation and analysis. He also has vast experience in international processes including climate change negotiation, analysis of implementation of sustainable Development Goals and Greenhouse gas inventories management, among others. He is an accomplished public speaker and author. He has a strong motivation and desire to make a profound contribution to the development and transfer of knowledge and skills in Renewable Energy along with attendant impacts on health, environment and social development. He is passionate about creating a legacy of a sustainable Energy future. |

**3. EXPERIENCE AND EMPLOYMENT HISTORY**

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| --- | --- | --- | --- | --- |
| **Dates** | **Employer** | **Role** | **Key Responsibilities** | **Key achievements** |
| August 2018 todate | Ministry of Energy | Deputy Director of Renewable Energy | * Assist Develop and harmonize national policy for renewable energy and energy efficiency. * Develop proposals of programmes and projects in the field of renewable energy and energy   efficiency to be developed as per the national energy strategy. |  |
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**4. EDUCATION AND QUALIFICATIONS**

**ACADEMIC QUALIFICATIONS**

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| --- | --- | --- | --- | --- |
| **Date** | **Institution** | **Course** | **Qualification & Grade** | **Key skills** |
| 2011 - 2012 | Kenyatta University | Environmental Planning & Management | Masters Degree | Project planning & Management, Action Planning, Statistical and data analysis and Environmental Accounting and Auditing. |
| 2003 - 2007 | Kenyatta University | Environmental Health | BSc., 2nd Class Honours (Upper Division) | Creative and critical thinking, Environmental chemistry, Environmental health impact assessment, Environmental law and project management. |
| 1985 - 1987 | Technical University of Kenya | Environmental Studies | Diploma, Credit | Environmental management, Environmental ecology, Environmental law and National and International administrative processes, |

**5. KEY TECHNICAL SKILLS**

**KEY AREAS OF COMPETENCES:**

* Biomass Energy systems management, Rural energy planning;
* Energy Policy formulation and analysis;
* Energy projects formulation, appraisal, monitoring and evaluation;
* Sustainable Energy systems – Renewable Energy, Rural energy planning & Management;
* Environmental Impact Assessment of energy projects;
* Committee member, ISO TC 255 on international ISO standards development for biogas technology;
* IPCC **Lead Author**, Preparing Global Greenhouses gases inventory guidelines for the Energy specifically on emissions from solid to solid fuel transformations,
* Climate change adaptation and mitigation analysis
* Certified **Lead Internal Auditor**, Quality Management Systems ISO 9000:2008;
* Gender analysis and mainstreaming expert and trainer: Team leader in Gender audit of Energy Policy in Kenya, 2007; and
* Renewable Energy budgeting and management

**Personal characteristics**

* Trustworthy, honest, disciplined, team player, self-motivated, flexible, person, ready to listen and to learn at all times. Coupled with good interpersonal & communication skills.
* Creative, innovative, dynamic and thrift with a strong action orientation and ready to travel wide and work in very challenging environments.

**Managerial skills:**

* Competent in leadership, planning and organization spiced with quality orientation and thoroughness in task performance.

**Unique Attributes:**

• Have a legacy of credibility and a strong commitment to Excellence in task performance.

• I have ability to Multi-task and with the ability to initiate work in very challenging environments i.e. Resilient and gives a smile even in difficult situations-not easily discouraged.

**4. WORK** EXPERIENCE

**AT THE MINISTRY OF ENERGY& PETROLEUM SINCE JULY 1988 TO DATE.**

**State different post held since you joined the ministry**

Current Designation Deputy Director of Renewable Energy at the Ministry of Energy

Key responsibilities

* Develop and harmonize national policy for renewable energy and energy efficiency.
* Develop proposals of programmes and projects in the field of renewable energy and energy

efficiency to be developed as per the national energy strategy.

* Co-ordinate the identification and preparation of feasibility studies (business plans) for

renewable energy and energy efficiency projects.

* Actively participate in discussions for elaborating policies, laws and regulations on renewable energy and energy efficiency with stakeholders from partner countries.
* Initiate renewable energy and energy efficiency projects and advice in the process of mobilization of budget and support for the projects from development partners eg KOSAP world bank funded project.
* Co-ordinate with ongoing programmes and projects on renewable energy and energy efficiency in the country to avoid overlap and identify complementary activities, especially

those where the support from the government and stakeholders will accelerate the development of renewable energy and energy efficiency opportunities.

Years at the Ministry of Energy : 30

20 February 2014 todate Principal Renewable Energy Officer at MOEP HQ

13 April 2010 – 19 February 2014 Centre Manager, Meru Energy Resource Centre

21April 2006 - 12 April 2010: Centre Manager, Jamhuri Energy Centre, Nairobi

3 Jan 1994 - 20 April 2006: Ministry of Energy Headquarters, Nairobi.

16 Feb1990 - 15 Dec 1993: Centre Manager, Jamhuri Energy Centre, Nairobi

11 July 1988 - 15 Feb 1990: Research Assistant, Bukura Energy Centre, Kakamega

**ADMINISTRATOR OF AN ENERGY CENTRE**

**KEY RESPONSIBILITIES**

* Managing and supervising unionisable staff and junior administrators.
* Solving staff and students’ grievances.
* Administering the employment contract of as per the terms and conditions of employment e.g.Leave, allowances, offs, clocking in and out.
* Ensuring that the Collective Bargaining Agreement and the Labour Laws are followed.
* Counseling students and staff whenever need arises.
* Ascertain the standard of cleanliness and ensuring economic use of utilities such as water, electricity consumable goods such as bulbs cleaning materials etc.

**6. SHORT PROFESSIONAL COURSES ATTENDED**

2018 June 11 – 22: Project Environmental Management Accounting & Audit, International Centre

for Capacity Development, Toronto, Canada.

2017 April 24 to May 12: Project Procurement and Contract Management. ESAMI, Blantyre,

Malawi.

2015 March 9 – April 17: Strategic leadership Development Programme. Kenya School of

Government, Nairobi

2014 Nov 2014- Oct 2015: International Training Course in Strategic Environmental Assessment

Sweden - 3 weeks, Rwanda - 2 weeks and Kenya -27 Weeks.

2014 August 4 – 29, 2014: International Project Management and Financial Resource Mobilization.

ESAMI HQ, Arusha, Tanzania

2013April 15 – 26th: Solar PV Technology at the Institute of Energy and Environmental Technology

at Jomo Kenyatta University of Agriculture and Technology

2010 Nov 15 – 10th December: Senior Management Course at GTI, Mombasa

2010 June 1 – 31st August: Scenarios as a tool for Energy Planning and Policy making. Energy for Sustainable Development On-line Topical Workshop. Administered International Institute for Industrial Environmental Economics (IIIEE) at Lund University, Sweden

2010 May 5 – 7th: Internal Auditor Training for Quality Management Systems ISO 9001:2008.

Millennium Management Consultants

2010 April 12 – 2 May: Carbon Finance, Its current status and opportunities for the future. Energy

for Sustainable Development On-line Topical Workshop. Administered International

Institute for Industrial Environmental Economics (IIIEE) at Lund University, Sweden

2010 April 12 – 25: Technical, Economic and Financial Feasibility and Analysis of Energy

Projects. Maseno University, Kenya

2010 January 25 – 1 March: Financing mechanisms for renewable energy and energy Efficiency projects in developing countries. E4SD Topical Online Workshop. Administered by International Institute for Industrial Environmental Economics (IIIEE) at Lund University, Sweden

2009 Sept 28 – December 5: International Training Course on Tropical Biomass Utilization

Ryukyus University, Okinawa, Japan

2009 April 15 – 15 June 2009. Energy for Sustainable Development, on-line Foundational Course.

Administered by International Institute for Industrial Environmental Economics (IIIEE),

Lund University, Sweden

2007 December 4 – 6: Implementation of ISO 9001:2000 course, Kenya Bureau of Standards held

at Kenya School of Monetary Studies.

2007 July 7 – 25, Solar and Wind Technologies at ESAMI HQ, Arusha, Tanzania.

2007 March 12 – 23: Budgetary Skills for Non-Financial Managers at Kenya College of Accountancy

2005 April 25 – 6th May 2005: Developing Research skills course at Kenya Institute of

Administration

2004 Sept 27 – 1st October 2004: Strategic planning and Management seminar at Kenya Institute of

Administration.

2003 July 7 – 27, Natural Resources and Environmental Management, at ESAMI HQ, Arusha,

Tanzania.

2003 8th February – 7th March: Introduction to PC Arc/Info 3.5.2 GIS and Arcview GIS 3.2a, at the

Regional Centre for Mapping, Resource Surveys and Remote Sensing, Nairobi.

2002 October 5 – 27, Rural Energy Project Planning and Environmental Management, ESAMI HQ,

Arusha, Tanzania.

2002 November 4 – Dec 6: Remote sensing for Natural resources management, at the Regional

Centre for Mapping, Resource Surveys and Remote Sensing, Nairobi.

1993 August 29th – 3rd September: Energy Conservation and Renewable Energy Promotion

Seminar organized by DPM, held at Kenya Institute of Administration.

1993 Nov 1st – 3rd December: 3rd International Training Course on Agroforestry Extension for

Development held at Wida Motel, Nairobi.

**7. KEY POST-QUALIFICATION EXPERIENCES:**

* Technical Desk officer for IRENA matters in Kenya. Attends IRENA Council and Assembly meetings
* 29 years hands-on experience in renewable energy management of which 17 years have been at the Ministry Headquarters. During the time I contributed heavily to the formation of Renewable Energy Department and the drafting of the schemes of service for Renewable Energy Officers and Assistants as well as mainstreaming climate change issues into energy programmes and plans
* Routinely involved in review of Environmental Impact Assessment reports submitted to the Ministry by national environment Agencies (NES and NEMA).
* Contributed the texts of the Energy chapter in the State of Environment Reports for Kenya for years 2003, 2004, 2005, 2006 and 2007.
* Participated in preparing and hosting of annual World Environment Day celebrations
* A member of National Climate Change Activities Coordinating Committee since 1994 .
* Active participation in United Nations Framework Convention on Climate Change (UNFCCC) activities including:
  + A negotiator in Ad-Hoc Group on Berlin Mandate that culminated in the adoption of Kyoto Protocol.
  + Participating in UNFCCC Conference of Parties including: COP 3 (Kyoto, Japan in 1997), COP 6 (Hague, Netherlands in 2000) COP, 6 Part II (Bonn Germany 2001), COP 10 (Buenos Aires, Argentina 2004) and COP 12 (Nairobi Kenya 2006). In 2004,
  + Chaired Technical Working Group on Climate Change Mitigation and Adaptation towards the hosting of COP 12 held in Nairobi in 2006
  + Participation in SBSTA and SBI Session that prepared the negotiating texts for UNFCCC Conference of Parties
* Lead Auditor ISO 9001:2008 Internal pre-certification Audit of Quality Management Systems for: Accounts, Administration and Petroleum Departments of the Ministry of Energy.
* Responsible for the documenting the procedures and processes of activities at the Energy Centres which enabled Jamhuri Energy Centre to be ISO certified alongside the Ministry of Energy Headquarters in 2010.
* Extensive thematic research experience covering various aspects of energy development and environment management as attested by a range of publications and articles detailed hereunder.
* Expert reviewer of IPCC Third Assessment Report
* Expert reviewer of IPCC Special Publication on Aviation and Global Atmosphere
* Currently a Lead Author of Inter-governmental Panel on Climate Change ( IPCC) - Refining of Greenhouse gas inventory methodologies for solid-to-solid fuel transformation emissions 2017-2019

Appendix 1: Key professional Research outputs

**8. PROFESSIONAL CONTRIBUTIONS, CONSULTANCIES AND EXPERIENCES**

2008: Woodfuel Policy Audit. RETAP-GEF Biomass Project. An audit of policy and legislative framework for management and regulation of the biomass energy sub- sector

2007: Climate and Energy Study in Kenya. African Centre for Technology Studies

2007: Gender Audit of Energy Policy and Programmes in Kenya. A Collaborative activity between the Ministry of Energy, Practical Action East Africa, ENERGIA and East African Energy Technology Development Network.

2006: Greening the Tea Industry in East Africa. Power Sector Reforms and Regulation Framework: Prospects and Challenges of Small Hydro Power Development in Kenya

2006: Co-generation for Africa. Kenya Country study to establish feasibility. AFREPREN.

2006: Research and Policy linkages in Energy sector of Eastern and Southern Africa. A case study of Renewable energy policy formulation in Kenya. Africa Energy Policy Research Network (AFREPREN) and Global Development Network (GDN).

2005: Renewable energy in Kenya’s Electricity Industry: A review of Geothermal and Cogeneration Technologies. Funded by AFREPREN and Heinrich Böll Foundation Regional Office for Eastern and Horn of Africa. Published as AFREPREN Occasional Paper No. 26

1999: A study on Community and Forest resource Management: The case for Lorroki Forests; Samburu District, Kenya: Resource Projects Kenya.

1998: Preparation of a Compendium of inventory of greenhouse gas emission and sinks in various key economic sectors in Kenya. Kenya Country Study on Climate Change Project: Ministry of Research and Technology.

1998: Preparation of a Compendium of Vulnerability and Adaptation to potential impacts of climate change in Kenya following studies undertaken by various sectorial consultants: Kenya Country Study on Climate Change Project; Ministry of Research and Technology.

1998: Inventory of greenhouse gas emission and sinks in Kenya for 1990 - 1994: Kenya Country Study on Climate Change Project: Ministry of Research and Technology.

1997: The Greenhouse Gas Emission from Kenya's Energy Activities: In Compendium of inventory of greenhouse gas emission and sinks in Kenya. Kenya Country Study on Climate Change Project: Ministry of Research and Technology.

**9. PUBLICATIONS, TECHNICAL PAPERS AND ARTICLES**

In the course of my working career, I have been able to author and/or edit a number of papers and newsletter articles as summarised below:

* Mbuthi, Paul N., (2012). Masters Degree Research Project: Biogas Adoption in rural Kenya: A case study of Imenti South District, Meru County. Kenyatta University.
* Ocholla, Gordon O., Martin M. Bunyasi,Gilbert W. Asoka, Ongere Pacha, Henry K. Mbugua, Paul Mbuthi, Stella Mbiti, Hausner K. Wendoand Peter K. Kamau (2012). Environmental Issues and Socio-economic Problems Emanating from Salt Mining in Kenya; A Case Study of Magarini District. *International Journal of Humanities and Social Science*
* Mbuthi, P. N., et al (2012), an Integrated Sustainable Development Plan for salt mines in the greater Magarini Region, Kilifi County. Environmental Planning and Management Regional planning studio – IV. Kenyatta University.
* Mbuthi, P. N., et al (2012). Challenges and prospects for effective forest conservation and sustainable rural livelihoods in Kenya: the case of Kakamega Forest. Environmental Planning and Management Regional planning studio – III. Kenyatta University.
* Mbuthi, P. N., et al (2011), A Strategic Development Plan for Garissa Municipality: Department of Environmental Planning and Management Urban Planning studio - 2010/2011 Masters Students. Kenyatta University
* Mbuthi, Paul N., (2011). Biogas Technology: Construction, Operation and Maintenance. A Manual for Energy Centres
* Mbuthi, P.N., (2009). Integrated Woodfuel Development Strategy for Kenya 2008-2012. GEF/RETAP BIOMASS PROJECT
* Mbuthi, P. N., et al (2008). Kenya Country Baseline Report in “EAC Strategy to scale up Access to Modern Energy Services”. East African Community
* Mbuthi, Paul, Faith Odongo, Mumbi Machera and Joel K. Imitira (2007), Gender audit of energy
* policy and programmes in Kenya, Nairobi: Ministry of Energy, Practical Action East Africa,
* ENERGIA and East African Energy Technology Development Network, Report under TIEENERGIA, 2007.
* Mbuthi, P. N., (2006). Energy and Millennium Development Goals. In Proceedings of workshop on Energy Demand, Clean Development Mechanism, NEPAD and MGDs in East Africa. Hilton Hotel, Nairobi, 22-23 November 2003.
* Mbuthi, P.N., (2005). Energy Technology Needs for Climate Change Mitigation. In Kenya’s Technology Needs Assessment report to United Nations Framework Convention on Climate Change. NEMA, Kenya.
* Karekezi, Stephen, John Kimani, Paul Mbuthi and Nicholas Owino (2006). Influencing policy through active involvement of a research institution in the performance contract process- Lessons learnt for the experience of AFREPREN/FWD. Working Paper No. 353.
* Mbuthi, P. N,, and David Yuko, 2004: Renewables in Kenya’s Electricity Industry: A review of Geothermal and Cogeneration Technologies. Funded by AFREPREN and Heinrich Böll Foundation Regional Office for Eastern and Horn of Africa. AFREPREN Ocassional Paper No. 26.
* Mbuthi, P. N., (2004). Energy Technology needs for Climate Change Mitigation: Kenya’s climate change technology needs and needs assessment report under the united nations framework convention on climate change, NEMA
* Mbuthi, P. N, 2002: Agro-forestry and Sustainable Energy development in Africa. A feature article in Impact Magazine, a Newsletter of Climate Network Africa., Special edition, October 2002.
* Mbuthi, P. N, 2001: Technology Transfer: The elusive promises that never came, who is sincere? In Innovation, A Magazine of Science, Technology and the Environment Vol. 8 May 2001: The African Centre for Technology Studies (ACTS).
* Mbuthi, P.N. (2001). Energy sector activities undertaken to respond to UNFCCC. In Kenya’s First National Communication to UNFCCC.
* Mbuthi, P. N, 2000: Sustainable Development in Africa, Feature article, Climate Change Newsletter, Climate Network Africa; January - March, 2000.
* Mbuthi, P. N, 1999: Solar-based rural electrification scheme; A CDM prototype project: In Workshop report: Workshop on understanding and integrating Sustainable Development into the Clean Development Mechanism of the Kyoto Protocol: Focus on Africa. A Climate Network Africa workshop for African experts: Ed. Grace Akumu. Hilton Hotel, Nairobi, Kenya.
* Mbuthi, P. N, 1999: Community and Forest resource Management: The case for Lorroki Forests; Samburu District, Kenya: Resource Projects Kenya.
* Mbuthi, P. N & Muturi H. R., 1999: Assessment Study on Smallholder Biogas Plants in Central Kenya, In Cleaner Production and Consumption in Eastern and Southern Africa; Challenges and Opportunities; edited by Nonita Yap, University of Guelph, Weaver Press, 1999.
* Mbuthi, P. N 1998: Hydropower, meteorology and Sustainable Industrial Development in Kenya: The challenges; in the Proceedings of the fourth Kenya Meteorological Society workshop on meteorological Research, applications and services, Mombasa Kenya.
* Mbuthi, P. N and King'uyu S.M., 1998 Inventory of greenhouse gas emission and sinks in Kenya. Summary for Policymakers: Kenya Country Study on Climate Change Project: Ministry of Research and Technology.
* Mbuthi, P. N, King'uyu S.M. and Moenga O. O., 1998: (Eds) Compendium of inventory of greenhouse gas emission and sinks in Kenya. Kenya Country Study on Climate Change Project: Ministry of Research and Technology.
* Mbuthi, P. N, Omenda T. O and Kariuki J.G., 1998: Vulnerability and Adaptation to potential impacts of climate change in Kenya: Summary for Policymakers. Kenya Country Study on Climate Change Project: Ministry of Research and Technology.
* Mbuthi, P. N, Omenda T. O and Kariuki J.G., 1998: (Eds) Compendium of Vulnerability and Adaptation to potential impacts of climate change in Kenya: Kenya Country Study on Climate Change Project; Ministry of Research and Technology.
* Mbuthi, P. N, 1997: The Greenhouse Gas Emission from Kenya's Energy Activities: In Compendium of inventory of greenhouse gas emission and sinks in Kenya. Kenya Country Study on Climate Change Project: Ministry of Research and Technology.
* Mbuthi, P. N. et al, 1996: Co-authored a document on Diversified Policies in tree propagative materials
* Mbuthi, P.N., 1995: Environment & coastal degradation DAU newsletter Issue No.1
* Mbuthi, P.N., 1994: Effects of age on pollarding Grevillea robusta at 20cm above the ground, two age scenarios; in SEP News Sept.1994
* Mbuthi, P.N., 1994: " Trees for firewood" SEP News Vol I,No.5
* Mbuthi, P.N., 1992: Caesalpinia spinosa, an example of a useful Multipurpose trees in the proceedings of the national energy awareness w/shop published by the GTZ-SEP.
* Mbuthi, P.N., 1992: Aberia caffra, an example of a useful MPT in the proceedings of the national energy awareness w/shop published by the GTZ-SEP.
* Mbuthi, P.N. & F.Kungu 1991: Ministry of energy's concept on seed source, establishment, seed collection and supply
* Mbuthi, P.N., 1989: Maize yields under selected MPTS with different row spacing after cutting in Bukura Western Kenya; in " Calliandra for Kenya."
* Mbuthi, P.N. & Dr. A. Getahun, 1989: Agroforestry research and Development highlights 1983 - 1986 Bukura Energy centre in "Calliandra for Kenya".
* Mbuthi, P.N., 1988: Bukura Energy centre; Agroforestry Development in AFRENA report No.19 (ICRAF).
* Mbuthi, P.N., 1987: Agroforestry the most viable agricultural Technology for the 90's upward for the Kenya central highlands. A Diploma Project paper.
* Mbuthi, P.N., 1987: Bean yields data for short rains Oct-Nov. 1986; Analysis and Implications Jamhuri Energy centre. A Diploma project paper.

**IT SKILLS**

* *Excellent written and spoken English*
* *Computer literate in MS word, excel and power point. Also able to use softwares such as SPSS, LEAP, MS Project and GGIS (for inventory of GHGs) and GIS*

**REFERENCES – References available on request**

1. Dr. Evans Kituyi

International Development Research Institute

Regional Office for Africa

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E-mail: ekituyi@uonbi.ac.ke

2. Eng. Isaac Kiva

Secretary of Renewable Energy

Ministry of Energy

Cell phone +254 733633867

E-mail: Isaac\_kiva@yahoo.com