* 1. Murefu Barasa

1. **Nationality: Kenyan**
2. **Education:**

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| **Institution** | **Qualifications obtained** |
| Yale University (USA), 2007 - 2009 | MSc (Environmental Science) |
| Kenyatta University (Kenya), 1999 - 2003 | BSc (Environment) |
| University of Bradford, UK, 2010 | Certificate in Project Risk Appraisal |

1. **Language skills:** competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

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| **Language** | **Reading** | **Speaking** | **Writing** |
| Swahili | 1 | 1 | 1 |
| English | 1 | 1 | 1 |
| Luhya | 2 | 2 | 2 |

1. **Membership of professional bodies:**

* Kenya Renewable Energy Association (KEREA);
* Ecological Society of East Africa (ESEA);
* Compton Fellow
* Education for Sustainable Energy Development (ESED) Scholar

1. **Other skills:** HOMER energy systems modelling software, MS Applications, GIS (intermediate user),
2. **Key qualifications and experience (relevant to the project):**

* Energy and energy sector program design
* Renewable energy resource assessments
* Energy demand side studies
* Commercialization of renewable energy systems and business models
* Structuring and design of distributed energy systems
* Energy policy and planning

1. **Specific country experience:** Kenya, Uganda, Tanzania, Zambia, Mozambique, Rwanda, Tunisia, Brazil and USA.
2. **Professional experience record (projects):**

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| Date: | from 08/2013 to Present |
| Location: | Kenya |
| Company: | EED Advisory Limited |
| Position: | Principal Associate |
| Description: | * Lead consultant supporting DANIDA and the Kenya Association of Manufacturers (KAM) design a 5 year, DKK 32 (US$ 4.8) million support facility for promoting private sector participation in renewable energy and energy efficiency. * Lead local consultant in design a £30 million support facility for private sector led green mini-grids in Kenya supported by DfID and managed by AfD. The facility will address key barriers in private sector participation in electricity generation and distribution. * Providing advice to Chase Bank on their “going green” strategy which included energy audits of all their 38 branches and recommending methods of achieving a carbon neutral status. * Lead consultant in design a US$ 5 million Transaction Advisory Services Facility under the SREP program in Tanzania on behalf of the IFC. TASF will support enterprise development in the mini-grids sector. * Lead consultant for a World Bank in market scoping survey targeting mini-grid developers. The survey sought to gather their opinion on two pilot business models being considered by the Ministry of Energy in Kenya (mini-IPP and a full concession model). * Lead country consultant in a 17-country World Bank scoping study capturing quantitative and qualitative information that assesses policy and institutional frameworks in the renewable energy sector. Part of the assignment included stakeholder mapping, gathering market intelligence on renewable energy projects under development and aggregating information on laws and regulations governing the sector. * Technical reviewer of a €14 million NAMA proposal to accelerate geothermal development in Kenya supported by GIZ, designed by the Energy Research Centre of the Netherlands on behalf of the Ministry of Energy and Petroleum (Kenya). * Lead consultant in drafting and formulating a € 2 million concept note for results based financing for improved cook stoves on behalf of the SNV project team. Part of the assignment involved review of the energy sector in general and the cook stoves sub-sector specifically, developing project performance indicators and structuring the idea in line with the EnDev guidelines. |

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| Date: | from 04/2010 to 08/2013 |
| Location: | Kenya |
| Company: | Camco Clean Energy |
| Position: | Principal Consultant and Operations Manager |
| Description: | * Lead consultant in coordinating nine (9) government agencies and regulators in the renewable energy space in Kenya to create a publically available one-stop online information portal for licencing and permitting procedures for renewables. The aim of the project was to improve the ease of doing business within the renewable energy sub-sector by increasing transparency and predictability of the permitting process. * Lead consultant in designing a US$ 1.4 million regional renewable energy programme covering Kenya, Uganda and Tanzania. The aim of the programme is to address market barriers in the uptake of renewable energy services in the region with a focus on small-hydro, biomass and geothermal. * Representing an MDB client in structuring, negotiating and drafting a $50million and a $60 million renewable energy investment plan for Tanzania and Kenya respectively under SREP, which is part of the Climate Investment Fund (CIF). * Managing a project to develop a woodfuel monitoring and tracking system with pilots in Uganda and Brazil. |

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| Date: | from 08/2009 to 03/2010 |
| Location: | Tunisia |
| Company: | African Development Bank |
| Position: | Energy and Climate Change Specialist |
| Description: | * Working under the Development Research Department (EDRE) to ensure that climate change issues are integrated into the overall knowledge generation processes of the Bank. * Provision of renewable energy and climate change intelligence for senior management * Representing the bank at various climate change fora |

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| Date: | from 09/2008 to 03/2009 |
| Location: | USA & Kenya |
| Company: | United Nations Development Program |
| Position: | Consultant |
| Description: | Led project design (PDF-A) of a medium-scale United Nations Development Programme- Global Environment Facility (UNDP-GEF) project worth US$ 1 million on behalf on the Government of Kenya Ministry of Forestry and Wildlife in collaboration with Energy for Sustainable Development, Nairobi Office. The goal of the project is to improve sustainable land use management in arid and semi-arid regions of Kenya. |

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| Date: | from 09/2007 to 03/2009 |
| Location: | USA |
| Company: | Yale University |
| Position: | Teaching and research assistant |
| Description: | * Teaching assistant for a course on energy issues in developing countries * Research on energy access in Africa, renewable energy uptake in Africa and the biofuel food-fuel potential conflict in Sub Saharan Africa |

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| Date: | from 10/2003 to 07/2007 |
| Location: | Kenya |
| Company: | Camco Clean Energy |
| Position: | Analyst |
| Description: | * Worked with partners in South Africa, Mozambique, Zambia and Swaziland to compile a regional state of play report that was used as a guide to national policies and approaches with the aim of mainstreaming renewable energy technologies (RETs) in poverty alleviation strategies. This involved a renewable energy demand study in Katuba, Zambia. * Designed and implemented a field study to assess the types of solar PV productive uses in Kenya and the industry’s facilitative factors. * Offered assistance in developing an outline that provided guidance for policy makers, project developers as well as to consultants on how to develop national biomass energy strategies in the Kenyan context. * Assisted in designing a pre-feasibility study to guide an upgrading process of a community run off-grid diesel power unit, to a wind-diesel hybrid system. Assessing the current and potential household, industrial, institutional energy requirements and expected environmental impacts. * Designed and implemented a feasibility study for a private sector client interested in bio diesel production for export from energy crops grown by small holders in Inhambane province of Mozambique. * Assisted in developing an Energy Atlas for Kenya showing current information and potential sources and supplies of energy, highlighting the potential of renewables and identifying the barriers to increased access and provide recommendations. |

1. **Others (e.g. publications):**

Barasa M., Kamara A., Anyanwu J. and Kang G.S. (2010) Improving infrastructure and energy access in Africa, Agribusiness for Africa’s Prosperity, United Nations Industrial Development Organization.

UNDP (2005), Kenya Energy Atlas, Global Village Energy Partnership, Nairobi (Contributing Author)

Camco (2013) Analysing Briquette Markets in Tanzania, Kenya and Uganda, Energy and Environment Partnership, DBSA, Midrand, Gauteng -Johannesburg.

Barasa M, (2010) Social and Biophysical Assessment of Biofuel Production on the Kenyan Coast, Proceedings of the 3rd Scientific Conference of the Ecological Society for Eastern Africa, Regal Press, (197-212)

Mutimba, S. and Barasa, M. (2005). National Charcoal Survey: Exploring the potential for a sustainable charcoal industry in Kenya. Nairobi, Energy for Sustainable Development – Africa