

David Maina Njugi

Curriculum Vitae

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PROFILE

I am a mechanical engineering professional with considerable experience in renewable energy technologies (solar/biogas/small hydro), project management, green growth economy, business and technical advisory experience to SMEs especially in the energy efficiency, renewable energy, water and agribusiness sectors. At the Kenya Association of Manufacturers, I manage a clean energy and energy efficiency promotion programme whose goal is to catalyze private sector investments in climate change mitigation solutions such as renewable energy and energy efficiency through support with feasibility studies, awareness forums and policy work with national and county governments. I also facilitate the adoption of sustainable energy policies by the counties, participated in the development of the solar pv design and installation guidelines and solar water heating training manual in a bid to enhance capacity and uptake of renewable energy in Kenya. I have organized several Clean Energy Conferences and Exhibitions in a bid to create awareness of energy efficiency and renewable energy solutions in the market to green our industries. I have offered technical and business advisory skills to SMEs especially in the renewable energy field. I also possess finance and accounting skills through my professional training and experience as an accountant, CPA. I am also a trained certified energy manager (CEM) and an ERC licensed Solar Water Heating technician.

KEY ACHIEVEMENTS

- ☐ Successfully supported KAMs clean energy projects (25+ projects) carry out feasibility studies
- ☐ Successfully organized renewable energy awareness forums such as the Kenya Clean Energy Conference & exhibition 2015 & 2017 and Energy Management Awards.
- ☐ Supported seven county governments prepare clean energy bills and policies.
- ☐ Supported and participated in the development of the solar PV design and installation guidelines and solar water heating training manual. This included developing of the terms of reference, review of tenders and supervision and coordination of the consultants work.
- ☐ I represent KAM in the KEPSA energy sector board
- ☐ I assist companies in the renewable energy sector develop business plans and funding proposals.
- ☐ Reviewed and assessed innovation proposals for which the Kenya Climate Innovation Centre funded to the tune of 600,000 USD. Successfully assisted companies apply for donor funding to the tune of 200,000 USD from other donor agencies.
- ☐ Coordinated the application, review and admission process of more than 80 clients at the Kenya Climate Innovation Centre. This involved review of the business ideas, client needs and market and scale up potential.

- ❑ Successfully monitored more than 15 funded projects to ensure proper implementation and success by providing technical and business advisory. This included ensuring proper accounting of the funds as per set guidelines.
- ❑ Provided business and technical advisory services including preparation of business plans to more than 10 SMEs in the renewable energy sector.
- ❑ Providing business advisory support to Ushirikiano Self Help Group funded by Ustadi.
- ❑ Successfully organized solar training at Strathmore University.
- ❑ Part of the team involved in the conceptualization, initial design and project management of the 600Kw solar photovoltaic system at Strathmore University.
- ❑ Successfully managed the Pensions department at UAP insurance during a handover period of three months.

WORK EXPERIENCE

A. Project coordinator/Energy Services Engineer – Kenya Association of Manufacturers (DFID Renewable Energy Project) – Feb 2015 to date

- ❑ Successfully supported KAMs renewable energy projects (25+ projects) carry out feasibility studies including review of tender documents for feasibility studies and supervision of consultants.
- ❑ Renewable energy and energy efficiency project origination and development
- ❑ Successfully organized renewable energy awareness forums such as the Kenya Clean Energy Conference & exhibition
- ❑ Overall project coordination to ensure proper execution as per work plan.
- ❑ Supported seven county governments prepare clean energy bills and policies including review of tender documents for the policy work and supervision of consultants.
- ❑ Supported and participated in the development of the solar PV design and installation guidelines and solar water heating training manual.
- ❑ Participated in the development of the Green Economy Strategy Implementation Plan (GESIP)
- ❑ I represent KAM in the KEPSA energy sector board
- ❑ General project management and coordination
- ❑ Supported the development of the KAM DANIDA proposal that eventually got approval

B. Technology Analyst, Kenya Climate Innovation Centre Jan- 2013- June 2014

- ❑ Developed successful client on boarding criteria whose aim was to streamline the application process and attract the best SMEs.
- ❑ Reviewed all applications providing input on the technical and market viability of the ideas and identifying their particular needs and scope for KCIC.
- ❑ Facilitated access to prototyping facilities for incubates including test reports analysis.
- ❑ Offered business advisory services to SMEs including business planning and financial modeling.

- ☐ Supported donor funded projects with guidelines on accounting procedures prior to the awarding of funds and when accounting for them to ensure compliance with set guidelines.
- ☐ Monitoring grant funded projects through site visits to ensure proper implementation as per the set work plan and budget.
- ☐ Provided technical expertise and recommendations in assessing climate technology proof of concepts to ensure they are technically sound.
- ☐ Supported SME innovators at proof of concept stage refine technology bias business cases that will enable business and technology change.
- ☐ Assisted SMEs carry out patent searches and apply for technology patents.

C. Other assignments

1. Project Assistant, Strathmore Energy Research Centre June 2012 to Dec 2012

- ☐ Facilitated the setting up of the Kenya Climate Innovation Centre including initial finance and procurement.
- ☐ Organized technical training in renewable energy including the German Solar Academy.
- ☐ Develop concept and initialize design of a solar photovoltaic system to meet the needs of the university.
- ☐ Reviewed RETs proposals and projects for further research and training.
- ☐ Initiated partnerships between the Centre and other stakeholders.
- ☐ Fundraising for different research projects at the centre.

2. Consultancy services

a.) Global Supply Solutions Ltd. October 2014 to 2016

- ☐ Coordinating fundraising activities including identifying funding bodies, applying and follow up to close.
- ☐ Reviewed the business plan and financials for funding readiness.

b.) Enso Kenya September-November 2014

- ☐ Identifying potential grant funding agencies for the Proof of Concept (Phase One) to give EnSo maximum chance of raising the required funds.
- ☐ Applying for funding to those agencies and managing the application process, including any necessary face to face meetings in Nairobi. Working with London based partners, including Article 25.
- ☐ Creating an EnSo Business Plan; a business plan (with project planning and financials) covering Phase One (Proof of Concept), and briefly laying out Phase Two (initial scaling once Phase One is nearing completion)
- ☐ Researching sites for EnSo's project phases (especially Phase 1), including the school for lease/sale, creating a range of site options and conducting feasibility appraisals.
- ☐ Negotiating lease terms with the owner(s) of the selected sites.

c.) Ushirikiano Self Help Group (Ustadi) September-November 2014

- ☐ Capacity building support including training in entrepreneurship, business planning, marketing and basic bookkeeping.
- ☐ Developing a sustainability work plan.
- ☐ Product development and design.

d.) Internships 2008 & 2009: UAP Insurance medical (claims) and life (pension) divisions

EDUCATION

- ☐ 2007-2012: BSc. Mechanical Engineering, the University of Nairobi.
- ☐ 2006-2009: Certified Public Accountancy (CPA Finalist), Strathmore University
- ☐ 2002-2005: Kenya Certificate of Secondary Education, Lenana School

OTHER TRAINING & CERTIFICATIONS

- ☐ 2016: ERC Licensed Solar Water Heating technician (LN: ERC/SWHST/00141)
- ☐ 2016: Certified Energy Manager International (CEMI)
- ☐ 2015: Energy Management training, Kenya Association of Manufacturers
- ☐ 2014: Training in Monitoring & Evaluation (Kenya Climate Innovation Centre)
- ☐ 2013: Training in the technical and financial evaluation tools for renewable energy projects, Kenya Association of Manufacturers
- ☐ 2013: Training on Green Growth (Danida Fellowship Centre)

INTERESTS

- ☐ Reading, playing soccer, technology trends and excursions.

REFEREES

1. Edward Mungai

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2. Patrick Kimathi

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3. Andrew Njoba

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