

CARBONSINK INNOVATIONS

RENEWABLE ENERGY CONSULTANCY FIRM



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About Us.

Introduction

CarbonSink Innovations is a world-class international energy development and consultancy firm specializing in renewable energy, carbon reduction, and sustainable technologies. We provide renewable energy development services, training and capacity building in clean cooking solutions for farmers, businesses, governments, and development organizations. Our expertise spans across the entire value bioenergy value chain with specialized skills in the design and implementation of Biogas projects. We provide training of biogas construction enterprises including masons in fixed dome biodigesters as well as maintenance of the technology. We also provide training to farmers on the operation of biodigester technologies in using biogas for cooking and the agricultural application of bio slurry as an organic fertilizer and soil conditioner.



Mission & Vision.

MISSION

- To accelerate the adoption of sustainable energy solutions through expert consultancy, technical innovation, and impactful project development.

VISION

- To be a global leader in renewable energy consulting, driving sustainability and carbon reduction across industries.

The Organization.



PRITCHARD MUKUKA
MANAGING DIRECTOR

Pritchard Mukuka is a renowned renewable energy expert, engineer, and business leader with extensive experience in solar energy, carbon financing, clean cooking technologies, particularly biogas technologies and improved cookstoves.. As a former renewable advisor from SNV, Pritchard has the experience and expertise required to design biogas programs and deliver trainings in the construction, installation, operations and maintenance of biodigester technologies including the applications of bioslurry for agricultural use in farming.

With a Master's in Renewable Energy Systems from Massey University (New Zealand) and a Bachelor's in Electrical/Electronic Engineering from Copperbelt University (Zambia), Pritchard has played a pivotal role in shaping Zambia's renewable energy landscape. His vast experience includes energy auditing, biogas systems, and productive-use energy solutions, having worked with organizations such as SNV, World Bank, USAID, UNEP, Engineers Without Borders, and the Zambian government. He has contributed to key national projects, including grid-scale solar feasibility studies, clean cooking strategy development, and the operationalization of energy financing initiatives.

The Organization.



PAMELA MATEYO
CHEIF OPÉRATIONS MANAGER

Pamela M. Mateyo is an Engineer and Climate change expert with over 7 years of working experience. She holds a Bachelors of Engineering Degree in Electrical Engineering obtained from the Copperbelt University, Zambia and a Post graduate degree in Climate change, Health and Disaster Management from the University of Technology, Mauritius.

Pamela is a Sustainable Development advocate focused on projects that promote environmental sustainability and creation of green cities. Her expertise varies from engagement in projects related to green building designs, access to clean energy and waste management. Pamela has served as a District Works Supervisor under the Ministry of Housing and Infrastructure Development where she supervised and managed different building infrastructure Engineering projects including Solar systems installations. She has served as a Technical Co-Consultant on the formulation of the National 'Clean Cooking Strategy and Action Plan' under the Ministry of Energy supported by the USAID-Alternative to Charcoal Department.

Pamela is also currently volunteering with the Green cosmos Zambia organization as a waste management specialist where she participates in the training of youths on how to turn waste into valuable products as a means to create sustainable cities and enable

The Organization.



FAY MATONGO
ENGINEER

Fay Matongo is a Zambian Agricultural Engineer and Renewable Energy Specialist committed to advancing energy access, climate resilience, and community empowerment across underserved regions. Since earning her Bachelor of Engineering in Agricultural Engineering from the University of Zambia in 2023, Fay has been deeply engaged in Zambia's energy sector, working at the intersection of sustainable agriculture, clean energy (Productive youth of energy) and youth development. She currently serves with the Zambia Renewable Energy Association (ZARENA), where she plays a central role in the implementation of the Kazungula Solar for Climate Resilience and Productive Uses (S4CRPU) Project, which commenced in November 2024. Her responsibilities include contributing to feasibility studies, designing and facilitating training-of-trainers sessions for cooperatives, developing standard operating procedures and technical manuals, and supporting the creation of community-led business models for border trade in agricultural produce.

Fay was also a Technical Consultant on the USAID-supported Clean Cooking Strategy and Action Plan (CCSAP), focusing on improved cookstoves and biogas. Her work involved conducting policy research, engaging stakeholders, drafting technical reports, and presenting findings during national validation workshops.

The Organization.



NATASHA MWIYA
COMMUNICATIONS MANAGER

Natasha Mwiya is a dedicated communications professional with a dynamic career spanning journalism and public relations. With a journalist's eye for a compelling story and a PR strategist's understanding of brand reputation, Natasha expertly bridges the gap between organizations and their audiences. Her background in journalism has equipped her with sharp research and storytelling skills, which she now leverages to craft authentic narratives and secure meaningful media coverage for her clients. As a Public Relations Officer and Consultant, she specializes in developing strategic communication plans, managing media relations, and building strong brand identities. Natasha is passionate about helping individuals and organizations communicate their value clearly and connect with their target market. She is a trusted advisor known for her integrity, strategic thinking, and proven ability to deliver results.

Our Services



Experience working in the development sector with rural communities

Project planning, design, development implementation

Biogas system design, installation, and setup



Investment facilitation and financial modeling for renewable energy projects

Support for ATF companies in scaling and market expansion

Policy analysis and regulatory compliance advisory



Energy audits and efficiency assessments

Carbon capture and offset strategies

Technical feasibility studies for bioenergy and MW-scale renewable projects



Passive energy management for farmer and commercial and industrial clients

Renewable energy integration for critical infrastructure

Sustainable development

Key Projects & Achievements



Clean Cooking Solutions

USAID National Clean Cooking Strategy Development – Technical assistance & policy planning (2024)

Training of over 200 individual masons and biodigester construction enterprises (BCEs) in biodigester construction installations across Eastern, Southern, Lusaka, Central and North Western Province as part of the SNV INCREASE project (2022 – 2023)

Biogas Installation for REA at Namwala secondary school and Mayukayuka secondary school – Renewable energy solutions for rural communities (2024)

Solar Energy Projects

12kW microgrid at Chimpanje rural health center- Developed, designed, installed and commissioned the system for the rural health care system (2025)

25 MW CAMCO Mumbwa solar projects- Grid impact, ESIA, Solar irradiance, Financial modeling and solar design (2025)

Market Research & Technical Assistance

ATF Support for USAID A2C Cohort Businesses – Investment facilitation & business scaling. Development of national clean cooking strategies and action plans (2023)

Bioenergy subcommittee for the Off-grid Task Force (OGTF) – Advisory for the government and private sector on the development of the bioenergy market in Zambia. Currently serving as member of the subcommittee but chaired the subcommittee from 2022-2023

Why Choose CarbonSink Innovations?

Expertise & Experience – A team of highly skilled professionals with about 5 years of experience in renewable energy, sustainability, and infrastructure development, particularly, solar, bioenergy, biogas and improved cookstoves.

Innovative & Data-Driven Solutions – We leverage cutting-edge technology and market insights to deliver impactful solutions.

Sustainability Focus – Our projects are designed to enhance environmental conservation and promote sustainable growth.

Proven Track Record – Successful implementation of large-scale renewable energy projects and policy advisory for governments and international organizations.



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