



About NewEnergy

Established in 1994, NewEnergy is a pioneering social enterprise in Northern Ghana, playing a key role in development facilitation. We focus our effort to improve access to rural infrastructure and social services such as water, sanitation, energy, and innovative agricultural technologies.

Over the last 25 years we have mobilized and invested over USD15 million in community development in Northern Ghana, and touched the lives of over one million people.

- We actively collaborate with Partners to find and implement sustainable solutions to basic social and infrastructure challenges in underserved areas.
- We train local managers and service providers to maintain rural infrastructure and bring innovations and improvements to scale.
- We support Small and Medium Scale Enterprises, especially in the energy sector to become more efficient and competitive.
- We carry out action research in rural energy, water supply, sanitation and agricultural innovation systems.
- Our solutions employ local labor and resources to the greatest extent possible.
- We believe our access to a wide range of technologies varying from the simple to the very complex, our ability to manage projects and our association with experts in international development across the world can bring culturally appropriate solutions to areas in need right here at home.

Our work and achievements have been recognized with district, national and international awards, namely;

- Top prize for **Power Africa Off-grid Challenge** competition in recognition of our innovations in the application of off-grid solar photovoltaic technology for irrigation and water purification, 2015 USADF.
- Northern Ghana Business Excellence Awards 2014, for outstanding contribution to development services (rural infrastructure)
- Best NGO in the Tamale Metropolis 2010, in recognition of development contribution in water, sanitation and rural energy services in the Tamale Metropolis

Explore NewEnergy's Work and Impact: a 25-year journey

Solar PV lighting for Adult Literacy classes in Northern Ghana: 1998-2000

In partnership with DANIDA (Royal Danish Embassy in Ghana) we provided solar PV lighting solution to over 2,000 Adult Literacy classes to improve teaching and learning for over 20,000 adult learners. The project cost over 500,000 USD.

Off-grid Lighting solution for rural communities: 2008-2010

In partnership with Philips Lighting (Signify), a global lighting technology company, we carried out a market assessment and developed a unique product to meet the lighting needs of rural households. A supply chain involving equipment importers, wholesalers, retailers and repair technicians was put in place to serve over 2000 families. The project cost 250,000 Euros.



Water and Sanitation Services for over 100,000 in Northern Ghana

In partnership with key stakeholders in the water sector, NewEnergy installed potable water facilities and latrines in over 400 villages, towns, market centres and schools. The project partners included: UNICEF, WaterAid, UNDP, US Africa Development Foundation, Conrad Hilton Foundation, Pumping is Life, and SIMAVI. Since 1994 we have mobilized and invested over 10 million USD in watsan services in Northern Ghana.

Solar PV for Water pumping in irrigation and Water purification: 2014-present

In partnership with United States Africa Development Foundation (USADF) – Power Africa Programme, a 5-kW solar powered water purification and irrigation facility was established to serve Nabogu, an off-grid community of 1000 inhabitants in the Northern Region of Ghana. The cost of the project was US\$100,000.



https://www.google.com/url?sa=t&rct=j&q=&esc=s&source=web&cd=1&ved=2ahUKewjz6-zov53jAhUSV8AKHb_mBnYQFjAAegQIAxAC&url=http%3A%2F%2Fenergycom.gov.gh%2Frett%2Fdocuments-downloads%3Fdownload%3D173%3Abaseline-study-of-renewable-energy-technologies&usg=AOvVaw29HsafJYj0nDuOudE_cJn0

UNDP Sustainable Energy for All : Solar powered irrigation in 4 communities (2015)

In partnership with UNDP and the Ghana Energy Commission, solar powered irrigation schemes were established in 4 communities to serve 78 farm families. The project supported the establishment of a Water User Association which is responsible for operation and maintenance of the scheme, setting tariffs and mobilizing additional resources for expansion. The project cost US\$250,000,

<http://www.gh.undp.org/content/ghana/en/home/ourwork/crisispreventionandrecovery/successstories/tapping-the-sun-to-increase-rural-incomes-in-ghana.html>

Corporate Social Responsibility for Philips Lighting: 2017/2018

Philips Lighting contracted NewEnergy to deliver affordable lighting solutions to over 5,000 rural beneficiaries in households, schools, clinics and small enterprises in Ghana. The project cost 400,000Euro.

<https://www.signify.com/global/our-company/corporate-social-responsibility/our-stories/solar-lighting-for-community-development>

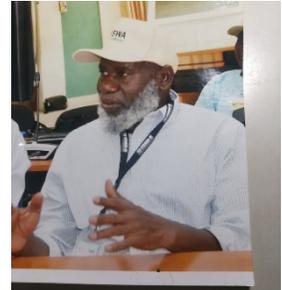
Action Research: 2008-present

1. Point of Use Water treatment technologies: The purpose of this study to determine whether Aquatabs, a water treatment tablet, reduces diarrheal diseases in a peri-urban population of Tamale, Ghana. <https://www.smartpatients.com/trials/NCT00252928>
2. Rural Electrification in Ghana: Analysis of traction and Africa's front-runnership in aspects of rural electrification. Published in Energy Policy. <https://www.scribd.com/document/103866380/Africa-Front-runnership-in-Rural-Electrification>
3. Creative Responses to Sustainability in the 21st Century; Participated in multi-country, multi-disciplinary research on energy and development at the Oslo Norwegian School of Management and the University of Oslo. <http://www.ceres21.org/>

Brief Bio-

Amadu Mahama, Chairman, NewEnergy

Amadu Mahama is the Founder and Chairman of NewEnergy a social enterprise with expertise in renewable energy technology and policy. A graduate in Finance, with an MSc in Energy Management from the Norwegian School of Management (Center for Electricity Studies) and the Manchester Business School, University of Manchester, UK. Amadu was a Lester Pearson Fellow in International Development at Carleton University, Canada in 1986/87.



I have have a long and diversified experience in management in some of Ghana's leading public and private organizations, including the Volta River Authority, Agricultural Development Bank and Ghana Water Company. I have provided consultancy services in energy and development to Ghana's Ministry of Energy, the EU Commission, Frankfurt School of Finance, Stantec, and Trama TechnoAmbietal of Spain.

I have a passion for farming and community development, and my goal now is create opportunities and inspire young people to take up sustainable farming as a business.