Meeting Africa’s Energy Needs and Widening Access to Sustainable Energy in Sub-Saharan Africa
WHAT IS AFREA?

The Africa Renewable Energy Access program (AFREA) was established in 2009 to help meet energy needs and widen access to energy services in Sub-Saharan African countries in an environmentally responsible way. AFREA was set up through a US$28.875 million contribution from the Kingdom of the Netherlands to the Clean Energy Investment Framework Multi-Donor Trust Fund (CEIF-MDTF) of the World Bank’s Energy Sector Management Assistance Program (ESMAP).

AFREA funds support the implementation of the Africa Energy Unit (AFTEG) strategy and its clients, through analytical and advisory activities, while also providing recipient-executed technical assistance and investment grants that help speed up the deployment of renewable energy systems regionally.

OUR FOCUS AREAS

Energy Access
AFREA is helping to expand access to reliable and affordable modern energy services by supporting improved service delivery and the scale-up of innovations in electricity, lighting and cooking.

Green Growth
Low carbon development, energy efficiency and climate change adaptation programs are vital to Africa’s future. AFREA supports green growth for a reliable, low carbon and sustainable power supply, supporting competitiveness and employment, enabling more businesses and people to realize their economic potential.

Capacity Building and Filling the Knowledge Gaps
AFREA’s role enhancing the capacity of key institutions—government ministries, rural energy agencies (REAs), power utilities, regulators and power pool operators—is essential to successful energy access scale-up.
“Women and girls are disproportionately affected by a lack of access to modern energy services. AFREA’s Gender and Energy program is a cross-cutting initiative that attempts to integrate gender considerations into the work not only of AFREA but of rural energy agencies in the region.”
OUR ACHIEVEMENTS

Since Fiscal Year 2009, AFREA has provided over US$25 million to support more than 25 activities including:

- Support to *Lighting Africa*, which has reached close to 2.5 million people with cleaner, quality-certified off-grid lighting products.
- Improving electrification planning and mobilizing resources to expand energy access through Sector Wide Approaches (SWAps) in Kenya and Rwanda and one is underway in Ethiopia.
- Upgrading capacity of the *West African Partners in Renewable Energy Education* program, to include renewable energy technology into the teaching curricula in Burkina Faso and Ghana.
- Provision of small grants to NGOs to support innovation and develop scalable models for cook stoves, sustainable charcoal production, social biofuels and bio-electricity under BEIA.
- Creation of the *Africa Clean Cooking Initiative* program.
- Creation of a community of practice for African electrification practitioners, including knowledge exchange and capacity building through workshops, blogs and online discussions under the Africa Electrification Initiative (AEI).
- Publication of the *Wood Based Biomass Energy Development for Sub-Saharan Africa: Issues and Approaches* paper.
- Completion of studies on the potential for Concentrated Solar Power (CSP) in Southern Africa and *Enhancing Climate Resilience of Growth in Nigeria*.

AFREA also provided support and direct grants for governments to carry out activities that complement existing World Bank operations including:

- Integration of renewable energy technologies into Mali’s off-grid electrification program under the *Household Energy and Universal Access* project.
- Small grants for innovative proposals for affordable micro-energy services in rural Tanzania.
- Assistance to the Government of Liberia to establish a Rural and Renewable Energy Agency to catalyze the development of new renewable energy in rural Liberia.
- The *Modernizing Biomass Energy in Benin* program to promote sustainable wood fuel production and a market management system for 300,000 hectares of forests.
- A project to strengthen the regulation of Rwanda’s Lake Kivu methane gas as a power source.
- Integrating gender-sensitive approaches to improving access into World Bank-financed energy projects.
"Only about one quarter of Sub-Saharan Africa's population has access to electricity. Poor households spend US$20 billion a year on low quality, fuel-based lighting."

AFREA II: MOVING AHEAD

The Energy Sector Management Assistance Program (ESMAP) and the World Bank’s Africa Energy Unit (AFTEG) have proposed a new dedicated ESMAP program for Sub Saharan Africa: the second phase of the Africa Renewable Energy Access Program (AFREA II) providing multi-year funding to support the region’s energy access and renewable energy agenda.

Managed by AFTEG, AFREA II will continue to help find workable, scaleable solutions to Africa’s energy deficit in the following ways:

• Promoting increased access to energy, with an emphasis on meeting basic household energy needs, and developing renewable energy and other low carbon energy sources;

• Creating an enabling environment for regional cooperation and private sector participation in energy generation, transmission and distribution; and

• Complementing and supporting AFTEG’s “Energy-Driven Development” vision of poverty reduction, green growth and making biomass sustainable in low income and post conflict countries.

Specific activities will include:

• Support to rural energy agencies and utilities including energy efficiency programs;

• Continued support to Lighting Africa’s efforts to help meet the long-term target of reaching 250 million people (50 million lights);

• Implementation of the Africa Clean Cooking Initiative piloting and promoting improved cook stoves, improving sustainability of wood-fuel supply, inter-fuel substitution, and development of biomass energy strategies;

• Disseminating information and building capacity among stakeholders to improve access and scale up renewable energy and offering low carbon development and climate change adaptation programs;

• Continued priority for gender mainstreaming and sharing lessons learned in AFREA’s first phase;

• Building private-public partnerships for the delivery of sustainable energy services; and

• Promoting regional cooperation, in particular the increased use of renewable energy via regional power pools.
Partners

The Kingdom of the Netherlands
International Finance Corporation (IFC)
Africa Energy Group (AFTEG), The World Bank
Energy Sector Management Assistance Program (ESMAP)
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
European Union Energy Initiative Partnership Dialogue Facility (EUEI PDF)
Global Alliance for Clean Cook Stoves
Global Partnership on Output-Based Aid (GPOBA)

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