

IMPLEMENTING CLEAN ENERGY, RESILIENCE, FOREST SUSTAINABILITY

“I strongly believe that it is the role of the Bank, as a key financing institution in Africa, to help countries adapt to climate change that no longer can be avoided.”

Alex Rugamba

Director, AfDB Department of Energy, Environment and Climate Change (ONEC)

Transforming Energy Services: Wind, Solar, Geothermal

Nearly three-quarters of Africans lack access to electricity, but today, demand for access to modern energy in Africa is growing faster than supply. Balancing this demand with the need to promote clean energy based in renewable resources is essential for Africa's

green growth. AfDB and CIF are partnering with 10 middle- and low-income countries to help supply their citizens with more accessible and more affordable energy through renewables.

CTF APPROVED PROJECTS

MOROCCO OUARZAZATE I CONCENTRATED SOLAR POWER

10/09 6/11 6/12

CTF \$100M, AfDB \$240M

Purpose: To generate 120-160 MW in its first phase by 2014 and 500 MW in total

Key Expected Results: 0.24 million tons of CO₂ emissions avoided per year; shifted energy mix

MOROCCO ONE WIND ENERGY

10/11 10/11 6/12

CTF \$125M, AfDB \$448M

Purpose: To construct three wind farms of 100-300 MW installed capacity and two hydro facilities to supply base-load power

Key Expected Results: Additional 550 MW of wind installed capacity and hybrid-hydro storage and generation of 520 MW; 533,000 new connections

NIGERIA RENEWABLE ENERGY AND ENERGY EFFICIENCY THROUGH LOCAL BANKS

11/10 Q12014 Q12014

CTF \$50M, AfDB \$75M

Purpose: To address energy efficiency in power, agribusiness, transport, telecommunications, and education by targeting local financial institutions to invest in the shifts to clean, efficient and affordable energy.

Key Expected Results: Increased energy efficiency in key development sectors; increased capacity of local financial institutions to invest in clean energy

SOUTH AFRICA ESKOM RENEWABLES SUPPORT

10/09 11/10 5/11

CTF \$100M, AfDB \$260M

Purpose: To introduce CSP to Sub-Saharan Africa and scaled-up wind energy to South Africa

Key Expected Results: 0.58 million tons CO₂ emissions avoided through CSP, 0.24 million tons avoided through wind

SREP APPROVED PROJECT

KENYA MENENGAI GEOTHERMAL DEVELOPMENT

9/11 11/11 12/11

SREP \$25M, AfDB \$120M

Purpose: To develop the Menengai geothermal steam field to produce enough steam for 400 MW power

Key expected results: 2 million tons of CO₂ emissions avoided per year; connecting 500,000 households and 300,000 small businesses.



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Resilience Through Sustainable Land and Water Management, Climate Forecasting

With AfDB and PPCR support, Mozambique, Niger and Zambia are undertaking scaled-up climate action and transformational change by integrating climate resilience in their national development planning.

PPCR APPROVED PROJECTS

MOZAMBIQUE BAIXO LIMPOPO IRRIGATION AND CLIMATE RESILIENCE

6/11 5/12 9/12

PPCR \$15.75M, AfDB \$3.2M

Purpose: To provide climate resilient infrastructure for increased agricultural productivity

Key expected results: Increased incomes 150% and crop production in project area, reduced poverty rate to 42%

MOZAMBIQUE SUSTAINABLE LAND AND WATER RESOURCES MANAGEMENT

6/11 8/12 10/12

PPCR \$15.75M, AfDB \$3.2M

Purpose: To promote community-based watershed/landscape management approaches

Key expected results: 1,500 ha of forests restored and forest fires reduced by 75%.

NIGER IMPROVEMENT OF CLIMATE FORECASTING AND OPERATIONALIZATION OF EARLY WARNING SYSTEMS

11/10 5/12 9/12

PPCR \$13M

Purpose: To build capacity in climate data processing, prepare an agro-pastoral vulnerability map, and scale up the national early warning system

Key expected results: Strengthened food security, 10% reduction in annual crop losses in project areas

NIGER WATER RESOURCE MANAGEMENT AND DEVELOPMENT

11/10 7/12 9/12

PPCR \$22M

Purpose: To improve resilience in rural communities dependent on rainfed farming

Key expected results: Reduced rural poverty 52%, increased annual agricultural production to 2860 tons in project areas

ZAMBIA STRENGTHENING CLIMATE RESILIENCE IN THE KAFUE SUB-BASIN

6/11 9/13 10/13

PPCR \$38M

Purpose: To strengthen 800,000 rural communities to respond to climate change impacts and strengthen roads linking farmers to markets

Key expected results: Increased resilient infrastructure and production systems in project area; increased Integrated Development Plans in districts with mainstreamed resilience

Managing Forests for Sustainability

To address serious forest loss and forest-based climate impact, forest-rich DR Congo, Ghana and Burkina Faso are getting support from AfDB and FIP to align their national strategies for Reducing Emissions from Deforestation and Forest Degradation with sustainable management of forests and conservation and management of carbon stocks (REDD+).

FIP APPROVED PROJECTS

GHANA ENGAGING LOCAL COMMUNITIES IN REDD+/ ENHANCEMENT OF CARBON STOCKS (ELCIR+)

11/12 9/13 1/14

FIP \$10M*, AfDB \$4.8M

Purpose: To reduce deforestation and forest degradation and financially benefit local communities.

Key expected results: Emissions reduction; protection of carbon reservoirs; 12,000 direct beneficiaries (50% women) to receive seeds, equipment, financial incentives to develop forestry, agroforestry and alternative livelihoods activities; 175,000 additional indirect beneficiaries.

BURKINA FASO GAZETTED FORESTS PARTICIPATORY MANAGEMENT

11/12 10/13 11/13

FIP \$11.5M*

Purpose: To build carbon sequestration capacity in the forests, improving local people's resilience to climate change, and reducing their poverty by diversifying their income sources, developing gazetted forest wood and non-wood products such as almond and shea processing and beekeeping.

Key expected outcomes: Development of a measurable, reportable, verifiable system for REDD+, improvement of forest governance, securitization and management of 284,000 ha of gazetted forests, and establishment of a socio-economic support infrastructure for neighboring municipal councils.

DEMOCRATIC REPUBLIC OF CONGO INTEGRATED REDD+ PROJECT IN THE MBUJI-MAYI/KANANGA AND KISANGANI BASINS

6/11 8/13 9/13

FIP \$22M*

Purpose: To reduce forest GHG emissions and poverty in a degraded savannah area and a closed forest area to address land tenure security, agriculture, forestry and energy.

Key expected results: 4 million tons CO₂ emissions reduced; 30,000 improved stoves; 8,500 ha forests sustainably managed; 20,000 rural micro-enterprises; 4,500 land usufruct rights formalized (50% women, youth)

Investment Plans (IPs) endorsed by CIF Projects approved by CIF Projects approved by AfDB Board



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“Africa’s development is so closely tied to nature, and economic growth is not sustainable without preserving the continent’s natural capital, land, water, marine, forests and energy resources.”

AfDB President Donald Kaberuka,
Foreword,
At the Center of Africa’s Transformation: Strategy for 2013-2022
African Development Bank

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*Project totals include project preparation grant financing