GROWING GREEN
THE AfDB AND CIF FOR A CLIMATE-SMART AFRICA

WWW.AFDB.ORG

FOR MORE INFORMATION ON THE CIF AND THE AfDB, PLEASE CONTACT MAFALDA DUARTE, CIF COORDINATOR, ENERGY, ENVIRONMENT AND CLIMATE CHANGE DEPARTMENT, AfDB MDUARTE@AFDB.ORG

Cover photography: Sven Torfinn/Panos
AFRICA: OPEN FOR SUSTAINABLE BUSINESS

Africa is a continent on the move. The world’s fastest growing region, Africa is becoming an attractive destination for investments in development sectors. But to succeed, Africa’s growth must be linked to climate action. Land and forest degradation, habitat and biodiversity loss, declining agricultural productivity and pollution are eroding Africa’s natural wealth.

To reverse these trends, many African countries are changing the way they manage their development, integrating environmental protection into national and local planning and resource management. Many African countries now have the policy, legal and institutional frameworks required to improve environmental management. But most still need to develop the capacity for implementation and enforcement, and development partners like the African Development Bank (AfDB) are helping them with this ambitious undertaking.

16 African nations are working through national investment plans with AfDB and CIF support to move toward sustainable green growth. The four-year old partnership has advanced significantly, with 11 projects underway and a spate of new projects in the pipeline.

ENVIRONMENTAL DEGRADATION IS BOTH A CAUSE AND A RESULT OF POVERTY, as communities without secure livelihoods are forced into depleting their natural resources.

**African Development Effectiveness Review 2013, AfDB (p.4)**

POWERED, CLIMATE-RESILIENT, AND GREEN

THE AfDB VISION FOR AFRICA

As the momentum in Africa builds toward development embedded with climate action, AfDB is at the front lines, providing countries with support for programs in sustainable energy, resilient rural, coastal and forest landscapes, and globally scalable knowledge on low-carbon and climate-resilient solutions. To bolster this, AfDB is partnering with the Climate Investment Funds (CIF), and to date has channeled $450 million of CIF funds and adding $1.1 billion for projects in 8 of the 16 CIF pilot countries at the forefront of climate action.

THE SOUTH AFRICA ESKOM RENEWABLE ENERGY PROJECT is ranked as best-rated project in 2011-2012 in AfDB’s appraisal system, citing partner alignment and fit with national and AfDB strategic priorities.

CIF: BOLSTERING AfDB’S VISION

With support from the $7.6 billion CIF, 48 countries around the world are piloting transformations in clean technology, sustainable management of forests, renewable energy access, and climate resilient development. Of these, 16 African countries are running CIF pilot programs of which AfDB is channeling $1 billion for low-carbon and climate-resilient programs and projects.

**CLIMATE INVESTMENT FUNDS**

- **$7.6 BILLION** worldwide
  - **$5.2 BILLION** Clean Technology Fund (CTF) worldwide
  - **$1.3 BILLION** Pilot Program for Climate Resilience (PPCR) worldwide
  - **$639 MILLION** Forest Investment Program (FIP) worldwide
  - **$505 MILLION** Scaling-Up Renewable Energy Program in Low Income Countries (SREP) worldwide

*Pledge values as September 25, 2008
Africa On The Move Toward Climate-Smart Development

CIF AfDB PORTFOLIO
16 = 11 = 16
16 COUNTRY INVESTMENT PLANS
11 APPROVED PROJECTS
14 PROJECTS TO BE APPROVED
3 FORESTS
5 RESILIENCE SOLUTIONS
1 TRANSPORT

120 million tons CO₂ reduced
1.7 GW increased energy through renewable technologies
61,000 hectares of regenerated forests

Poverty reduced in project areas
120 million tons CO₂ emissions reduction

Poverty reduction in projects targeted areas
6% FIP
5% PPRC
14% CTF/SREP
35% Total

Expected Installed Capacity (MW) by technology of approved projects

1.7 GW increased energy through renewable technologies

Surface area (ha) reforested/regenerated

Some Projected Outcomes
**CIF IN AFRICA AT A GLANCE**

**NEW ENDORSED PLANS**

**MAY 2013**
CIF approves revised $660 million MENA Concentrated Solar Power (CSP) plan to leverage nearly $5 billion, ensures Morocco’s Ouarzazate $1 billion 300 MW project for CTF $218 million.

**SEPTEMBER 2013**
CIF endorses the United Republic of Tanzania SREP $50 million investment plan to scale up renewable energy. The geothermal component (SREP $25 million, AfDB $3 million) will catalyze 100 MW+ geothermal power.

**APPROVED PROJECTS**

**As of September 2013**

11 = $450 million + $1.1 billion

- **DEMOCRATIC REPUBLIC OF CONGO**
  - Integrated REDD+ Project in the Mbuji-Mayi/Kananga and Kisangani Basins

- **GHANA**
  - Engaging Local Communities in REDD+/Enhancing Carbon Stocks

- **KENYA**
  - Menengai Geothermal

- **MOROCCO**
  - ONE Wind Energy

- **MOROCCO**
  - Ouarzazate I Concentrated Solar Power

- **MOZAMBIQUE**
  - Baixo Limpopo Climate Resilient Agriculture

- **MOZAMBIQUE**
  - Sustainable Land and Water Management

- **NIGER**
  - Improvement of Climate Forecasting and Early Warning Systems

- **NIGER**
  - Water Resource Management and Development

- **SOUTH AFRICA**
  - Eskom Renewables Support Project

- **ZAMBIA**
  - Strengthening Climate Resilience in Kafue River Basin

**PROJECTS TO BE APPROVED**

**By December 2013**

- **BURKINA FASO:** $11.5 million
  - FIP: Gazetted Forests Participatory Management Project for REDD+

- **NIGERIA:** $50 million
  - CTF: Renewable Energy and Energy Efficiency through Local Banks

**ENGAGING THE PRIVATE SECTOR**

The CIF and partner Multilateral Development Banks including the AfDB have created “private sector set-asides” for projects under the FIP, PPCR, and SREP, making special funds available for innovative projects engaging the private sector.

AfDB has submitted proposals for projects in Burkina Faso, Ghana, and Kenya, among others. Winning projects will be selected before December 2013.

**BROKERING KNOWLEDGE**

AfDB is partnering with African countries to create a growing repository of climate knowledge.

**TRACKING CLIMATE FINANCE**

A new climate finance tracking methodology developed by MDBs allows agencies to increase accountability for climate action in development. AfDB led development of the adaptation approach and contributed to the mitigation approach.
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 on renewable resources is essential for Africa’s sustainable development. Through CTF and SREP, AfDB and CIF are partnering with 10 African middle- and low-income nations to help supply their citizens with more, more affordable, and green energy through renewables.

**CTF APPROVED PROJECTS**

**MOROCCO OUARZAZATE I CONCENTRATED SOLAR POWER PROJECT**  
CTF $100M, AfDB $240M  
*Purpose:* To generate 120-160 MW in first phase by 2014 and 500 MW in total  
*Key expected results:* 240,000 tons of CO₂ emissions avoided per year; shifted energy mix

**MOROCCO ONE WIND ENERGY PROJECT**  
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

**SOUTH AFRICA ESKOM RENEWABLES SUPPORT PROJECT**  
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 project

**KENYA MENENGAI GEOTHERMAL DEVELOPMENT PROJECT**  
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.

**“WE REMOVED TAXATION ON CLEAN ENERGY EQUIPMENT; WE NOW SEE SOLAR PANELS BEING SOLD ON THE STREET.”**  
Kenyan Parliament member Dr. Wilbur Ottichilo

---

**Program Funding in CIF Portfolio**

- **5 CTF countries** = $1.86 billion CIF + $752 million AfDB
- **5 SREP countries** = $340 million CIF + $120 million AfDB
- **3 PPCR countries** = $292 million CIF + $105 million AfDB
- **3 FIP countries** = $140 million CIF + $44 million AfDB
With PPCR support, Mozambique, Niger and Zambia are undertaking scaled-up climate action and transformational change by integrating climate resilience in their national development planning.

**RESILIENCE THROUGH SUSTAINABLE LAND AND WATER MANAGEMENT, CLIMATE FORECASTING**

**PPCR APPROVED PROJECTS**

**MOZAMBIQUE BAIXO LIMPOPO IRRIGATION AND CLIMATE RESILIENCE**
PPCR $15.5M, AfDB $25M
*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**
PPCR $15.5M, AfDB $3M
*Purpose:* To promote community-based watershed/landscape management approaches
*Key expected results:* 1,500 ha forest restored, forest fires reduced by 75%

**NIGER IMPROVEMENT OF CLIMATE FORECASTING AND OPERATIONALIZATION OF EARLY WARNING SYSTEMS**
PPCR $13M
*Purpose:* To build capacity in climate data processing, prepare an agro-pastoral vulnerability map, and scale up the national early warning system

**ZAMBIA STRENGTHENING CLIMATE RESILIENCE IN THE KAFUE SUB-BASIN PROJECT**
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

**FIP APPROVED PROJECTS**

**GHANA ENGAGING LOCAL COMMUNITIES IN REDD+/ ENHANCEMENT OF CARBON STOCKS (ELCIR+) PROJECT**
FIP $9.75M, AfDB $4.8 M
*Purpose:* To reduce deforestation and forest degradation and financially benefit local communities.
*Key expected results:* Emission reductions; protection of carbon reservoirs; 12,000 direct beneficiaries (50% women) to receive seeds, equipment, financial incentives to develop forestry, agroforestry and alternate livelihood activities; 175,000 additional indirect beneficiaries.

**BURKINA FASO INVESTMENT PLAN**
*Purpose:* Transformation of economically significant forest sector through REDD+ management, land use planning
*Key expected results:* Innovative landscape approach instituted

**DEMOCRATIC REPUBLIC OF CONGO INTEGRATED REDD+ PROJECT IN THE MBUJI-MAYI/KANANGA AND KISANGANI BASINS (PIREDDB/MBKISS)**
FIP $22M
*Purpose:* To reduce forest GHG emissions and poverty in a degraded savannah area (Kasai provinces) and a closed forest area (Orientale Province) to address land tenure security, agriculture, forestry and energy
*Key expected results:* 4 Mt 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)

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+).