CLIMATE INVESTMENT FUNDS





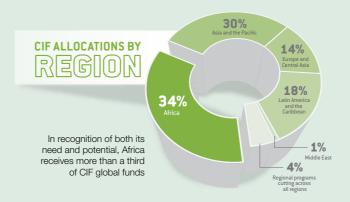


ABOUT THE CIF

2015 IS POISED TO BE A TRANSFORMATIVE

YEAR for climate-smart
development. As the
global decisions on
climate finance unfold,
we welcome the global
community's reaffirmation
of CIF, and are optimistic
about Africa's compelling
CIF accomplishments. With
an expanded portfolio in
27 countries, the AfDB's
work with CIF is helping
them reshape the pace and
breadth of climate-smart
development.

Africa's Green Development on the Upswing



Many CIF-funded projects have <u>advanced to a second stage of development</u>. Under CTF, in Morocco, Noor II and III are generating energy with concentrated solar power, helping diversify the country's energy mix while creating new jobs. In Kenya, Menengai Geothermal is on track to generate 150 MW of power by 2017.

Fourteen low-income African countries are transforming their energy services through CIF's largest SREP portfolio: Benin, Ethiopia, Ghana, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Rwanda, Sierra Leone, Tanzania, Uganda, and Zambia.

New approaches to climate finance have emerged. Projects are underway through SREP, FIP and PPCR to engage new partnerships with independent power producers, power purchase agreements, and public-private partnerships. Innovative finance is stimulated through new mechanisms such as Lines of Credit for local bank on-lending and local currency lending in a cross-currency swap.

The importance of sharing knowledge is a critical CIF element, enhanced through events like a May 2015 civil society forum hosted by CIF and AfDB. And learning is emerging under FIP about forest sustainability tools including Payment for Environmental Services (PES), detailed in a new knowledge product, and piloting forest monitoring and reporting.



CTF—CLEAN TECHNOLOGY FUND

Ensuring sustainable progress

Building on a vision of Africa as a powered, interconnected and climate-smart continent, the AfDB and CTF are

AfDB CTF APPROVED PROJECTS

MOROCCO OUARZAZATE CONCENTRATED SOLAR POWER

CTF \$100M, AfDB \$240M

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

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

MOROCCO NOOR II AND III CONCENTRATED SOLAR POWER PROJECT (MENA REGION IP)

CTF \$119M, AfDB \$140M

Purpose: To develop 2,000 MW of concentrated solar power Key Expected Results: Annual CO2 savings of 521,670, potential creation of 11,000 jobs, reduce global CSP cost curve by 3%

MOROCCO ONE WIND ENERGY

CTF \$125M, AfDB \$448.39M

Purpose: To construct two 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 LINE OF CREDIT FOR RENEWABLE ENERGY AND **ENERGY EFFICIENC**

CTF \$25M, AfDB \$75M

Purpose: To facilitate provision of affordable financing through a local bank for indigenous RE/EE projects.

Key Expected Results: 0.15 million tons of CO, per year, newly installed capacity of 107 MW

SOUTH AFRICA ESKOM RENEWABLES SUPPORT

CTF \$100M, AfDB \$260M

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

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

SOUTH AFRICA XINA SOLAR ONE PROJECT (SUSTAINABLE **ENERGY ACCELERATION PROGRAM)**

CTF \$41.5M AfDB \$100M

Purpose: The construction of a 100MW CSP plant to alleviate peak load demand and reduce CO₂ emissions in South Africa. Key Expected Results: Annual reduction of 400,000 tons of CO₂, creation of 1,370 jobs during construction phase and 45 iobs during operation.





FIP-FOREST INVESTMENT PROGRAM

Managing forests for sustainability

With full approval of the FIP portfolio, the AfDB is supporting countries' work to realize a broad range of forest benefits including governance mechanisms, poverty reduction, job creation and sustainable forestry practices.

AfDB FIP APPROVED PROJECTS

BURKINA FASO GAZETTED FORESTS PARTICIPATORY MANAGEMENT FIP \$11.5M⁴

Purpose: To build carbon sequestration capacity in the forests improving local people's resilience to climate change, and reducing poverty by diversifying 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; 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 FIP \$21.5M*

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)

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

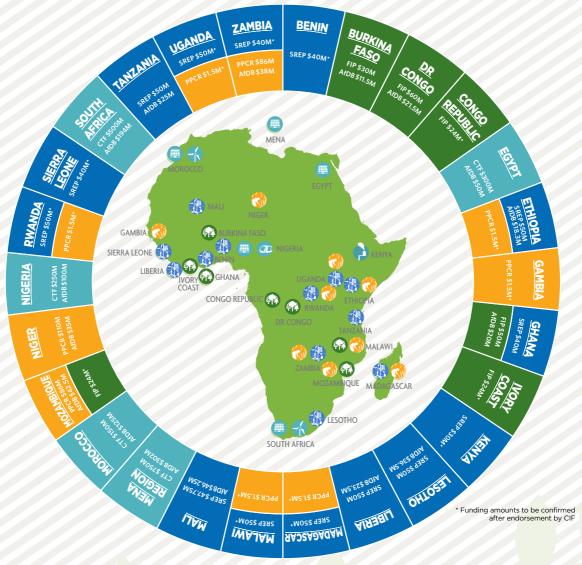
FIP \$9.75M*, AfDB \$4.8M

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.



AfDB CIF SUPPORTED INVESTMENT PLANS





CTF

























\$5.3 BILLION
Clean Technology Fund (CTE)

\$1.2 BILLION

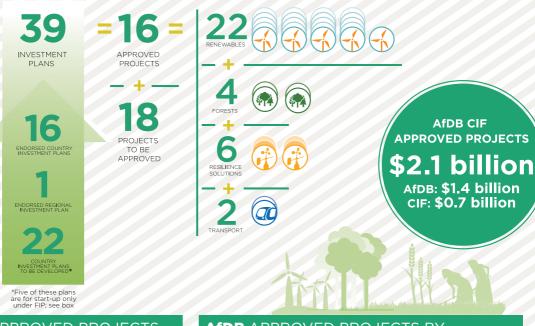
\$785 MILLION

\$796 MILLION

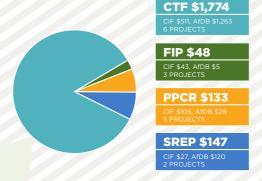
FIP offers start-up support to five additional forest nations

In May 2015, FIP approved start-up support to Cameroon, Rwanda, Tunisia, Uganda, and **Zambia** to help them develop investment plans; the countries will then seek funding from other bilateral and multilateral sources to implement the plans.

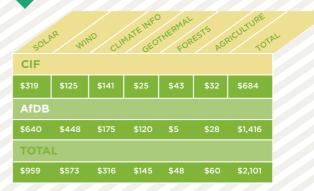
AfDB CIF PORTFOLIO



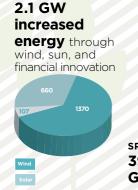
AfDB APPROVED PROJECTS BY PROGRAM(\$M)



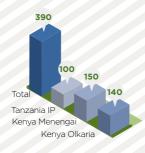
AfDB APPROVED PROJECTS BY SECTOR (\$M)



AfDB CIF SOME PROJECTED OUTCOMES

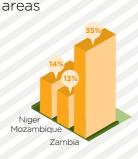


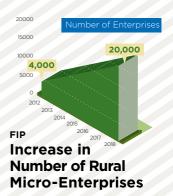
CTF



390 MW increase in Geothermal Capacity

Poverty reduced in project target







PPCR—PILOT PROGRAM FOR CLIMATE RESILIENCE

Embedding climate resilience into national planning

With PPCR and AfDB support Mozambique, Niger and Zambia have fully approved their AfDB-led PPCR projects. Their scaled-up climate action will lead to significant forest restoration, reduced poverty rates, increased crop production and heightened climate resilience.

AfDB PPCR APPROVED PROJECTS

MOZAMBIQUE BAIXO LIMPOPO IRRIGATION AND CLIMATE RESILIENCE

PPCR \$15.75M, AfDB \$25

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 \$15.75M, AfDB \$3.23M

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

PPCR \$13M

Purpose: To build capacity in climate data processing, prepare an agropastoral 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 PPCR \$22M

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

Key expected results: Reduced rural poverty from 66% to 52%, increased annual agricultural production to 2860 tons in project areas

ZAMBIA STRENGTHENING CLIMATE RESILIENCE IN THE KAFUE SUB-BASIN

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



Such as Mozambique's Lurio Green Resources Forestry private sector project, which will develop a sustainable, 24,000 ha eucalyptus forest plantation to generate revenues through the sale of diverse forest products



SREP—SCALING UP RENEWABLE ENERGY IN LOW INCOME COUNTRIES PROGRAM

Economic growth through renewables

With a double-faceted objective of bridging Africa's energy deficit and stimulating economic growth, the AfDB is growing its SREP portfolio. Through support from SREP and AfDB and other partners, 14 low income African countries will see their energy landscapes revolutionized.

Afdb SREP APPROVED PROJECTS

KENYA MENENGAI GEOTHERMAL DEVELOPMENT

SREP \$25M, AfDB \$120M

Purpose: To develop the Menengai geothermal steam field to produce steam for 150 MW power

Key expected outcomes: 540,000 tons CO_2 emissions avoided per year; connecting 185,000 households and 110,000 small businesses.

MALI PROJECT FOR SCALING UP RENEWABLE ENERGY (PAPERM)

SREP \$1.5M

Purpose: To foster development of renewable energy by improving policy, strategy, regulatory and institutional frameworks for scaling up renewable energy.

Key expected results: 40 additional RE projects by 2017.



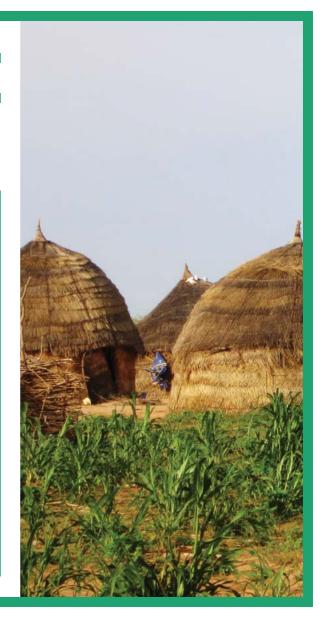
Such as in the <u>May 2015 CIF and AtDB-hosted workshop with civil society</u> to consider best ways to ensure civil society involvement in the exponentially expanded SREP portfolio of 14 African countries.

PROJECT/PROGRAM TITLE	INVESTMENT PLAN	PROJECT STATUS	CIF FUNDING (US\$ MILLION)	Afdb Funding (US\$ MILLION)
CLEAN TECHNOLOGY FUND (CTF)				
200MW Gulf of Suez Wind Farm	Egypt	Preparation	50.00	140.00
120–160 MW CSP Complex in Ouarzazate Morocco	MENA	AfDB Approved	100.00	240.00
Morocco Ouarzazate CSP—Project II	MENA	AfDB Approved	119.00	140.00
Egypt Kom Ombo CSP	MENA	Preparation	61.50	
Tunisia Akarit	MENA	Preparation	31.00	
CSP Technical Assistance Program	MENA	Preparation	2.92	
One Wind Energy Plan	Morocco	AfDB Approved	125.00	448.39
Abuja Mass transit	Nigeria	Preparation	50.00	
Renewable Energy Utility-scale Solar PV—Bauchi Solar PV	Nigeria	Preparation	25.00	89.00
Line of credit for Renewable Energy/Energy Efficiency	Nigeria	AfDB Approved	25.00	75.00
Eskom Renewable supp projects (Wind & CSP)	South Africa	AfDB Approved	100.00	260.00
Sustainable Energy Acceleration Program—Xina CSP Project	South Africa	AfDB Approved	41.50	100.00
RE—Sustainable Transport	South Africa	Preparation	52.50	
FOREST INVESTMENT PROGRAM (FIP)				
Gazetted forests participatory management REDD+	Burkina Faso	AfDB Approved	11.50	
Addressing deforestation & degration in the Mbuji Mayi/Kananga/Kisangani Supply area	DRC	AfDB Approved	21.50	
Engaging Local communities in REDD+/ Enhancing carbon stocks	Ghana	AfDB Approved	9.75	4.80
Restoration of degraded forest reserve	Ghana	Private Sector set-aside	10.30	7.00
PILOT PROGRAM FOR CLIMATE RESILIENCE (F	PCR)			
Sustainable land and water management	Mozambique	AfDB Approved	15.75	3.23
Baixo Limpopo irrigation & climate resilience program	Mozambique	AfDB Approved	15.75	25.00
Lurio project Private Sector set-aside	Mozambique	Private Sector set-aside	11.00	
Water resources mobilization & development (PROMOVARE)	Niger	AfDB Approved	22.00	
Climate information dev & forecasting (PDIPC)	Niger	AfDB Approved	13.00	
Strengthening climate resilience Kafue sub-basin	Zambia	AfDB Approved	38.00	
SCALING-UP RENEWABLE ENERGY PROGRAM	(SREP)			
Assela wind farm project	Ethiopia	Preparation	18.30	
Menengai Geothermal Development	Kenya	AfDB Approved	25.00	120.00
Kopere Solar Park	Kenya	Private Sector set-aside	11.50	
RE-Electrification Eastern Liberia	Liberia	Identification	23.50	
Mini/Micro hydro development	Mali	Preparation	10.20	
Solar photovoltaic	Mali	Identification	11.05	
Solar Mali Ségou PV	Mali	Private Sector set-aside	25.00	
Promoting the Scaling Up of Renewable Energy	Mali	AfDB Approved	1.50	
Geothermal Power Development	Tanzania	Identification	24.30	
Renewable Mini-grids and Stand-alone Systems	Ghana	Identification	17.50	
Net Metered Solar PV for SMEs and Lighting Project	Ghana	Identification	12.50	

CLIMATE INVESTMENT FUNDS

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2015



