TOWARDS A CLIMATE-SMART AFRICA

THE AFRICAN DEVELOPMENT BANK AND THE CLIMATE INVESTMENT FUNDS’ PARTNERSHIP

OCTOBER 2021

www.climateinvestmentfunds.org
www.afdb.org
The African Development Bank plays an important role as a CIF implementing entity, advancing a growing portfolio of projects in renewable energy, forestry, and resilience solutions in Africa.

With CIF support, the Bank currently finances 39 investment plans in 27 countries and 1 region to transform their economies through renewables, sustainable transport, climate resilience and sustainable forest solutions.

As of October 2021, the African Development Bank had 28 CIF projects approved for $2,875 billion (AfDB $1.988 billion, CIF $0.887 billion). The CIF’s four programs are:

- **Clean Technology Fund (CTF)**
- **Forest Investment Program (FIP)**
- **Pilot Program for Climate Resilience (PPCR)**
- **Scaling Up Renewable Energy Program in Low Income Countries (SREP)**.

**For every $1** invested by the CIF, an additional **$14** has been mobilized.

### APPROVED PROJECTS

AfDB-approved projects by program

<table>
<thead>
<tr>
<th>Program</th>
<th>AfDB-CIF $2.875 billion</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTF</td>
<td>CIF $588 million AfDB $1.661 billion</td>
</tr>
<tr>
<td>FIP</td>
<td>CIF $76 million AfDB $1.111 billion</td>
</tr>
<tr>
<td>PPCR</td>
<td>CIF $111 million AfDB $29 million</td>
</tr>
<tr>
<td>SREP</td>
<td>CIF $112 million AfDB $187 million</td>
</tr>
</tbody>
</table>

**AfDB-CIF approved projects:**

<table>
<thead>
<tr>
<th>Program</th>
<th>AfDB: $1.988 billion CIF: $0.887 billion</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTF</td>
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<td>SREP</td>
<td>CIF $112 million AfDB $187 million</td>
</tr>
</tbody>
</table>

### ADAPTATION BENEFITS MECHANISM (ABM)

With support from CIF, the African Development Bank has conceptually developed the Adaptation Benefits Mechanism (ABM), a results-based finance mechanism that aims to attract public and private sector funding to projects and programmes enabling households, communities, economies, and ecosystems to adapt and build resilience to the negative impacts of climate change.

The African Development Bank is implementing a pilot phase from 2019 to 2023 to develop and implement the ABM in recognition of the key role that Multilateral Development Banks could play in de-risking new mechanisms and approaches for broader use, including by the private sector. The objective of the pilot phase is to demonstrate an operational mechanism in time for the UNFCCC’s 2023 Global Stocktake.

Website: abmechanism.org
### CLEAN TECHNOLOGY FUND (CTF)

#### ENSURING SUSTAINABLE ENERGY

**MOROCCO**

**NOOR I CONCENTRATED SOLAR POWER PROJECT**

**Purpose:** To initiate the development of Concentrated Solar Power (CSP) technology by carrying out Phase I of the Ouarzazate Power Station (125 to 160 MW)

**Key expected results:**
- Reduce national energy dependence and volume of fuel imports at the national level; increase share of renewable energy in national electricity generation by 30%
- Around 0.5 million tons of CO2 emissions avoided in 2017 alone

**MOROCCO**

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

**Purpose:** To increase innovative solar power generation in Morocco through an innovative hybrid CSP and Solar Photovoltaic (PV) solution

**Key expected results:**
- Over 1,242 GWh of clean energy produced and delivered through the national electric grid since 2016
- More than 2,000 green jobs created through construction of NOOR II and NOOR III facilities

**MOROCCO**

**ONE WIND ENERGY PROGRAM**

**Purpose:** To support socio-economic development in Kenya by increasing installed energy capacity, diversifying the country’s energy mix with geothermal power, and fostering private sector development

**Key expected results:**
- Creation of over 400 green jobs

**MOROCCO**

**MIDELT CONCENTRATED SOLAR POWER PROJECT**

**Purpose:** To increase innovative solar power generation in Morocco through an innovative hybrid CSP and Solar Photovoltaic (PV) solution

**Key expected results:**
- 1.2 million tons annual GHG emissions reduced; up to 930 MW installed capacity of renewable energy

<table>
<thead>
<tr>
<th>Country</th>
<th>Project Description</th>
<th>Purpose</th>
<th>Key expected results</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOUTH AFRICA</td>
<td>ESKOM RENEWABLES SUPPORT PROJECTS: SERE WIND FARM</td>
<td><strong>Purpose:</strong> To facilitate the accelerated development of large-scale renewable energy production capacity in support of the long-term carbon mitigation strategy of South Africa</td>
<td></td>
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<tr>
<td></td>
<td><strong>CTF $50M, AfDB $45M</strong></td>
<td><strong>Key results:</strong></td>
<td>100 MW of installed capacity, 315,000 MWh of annual production, Over 400 green jobs created</td>
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<tr>
<td>NIGERIA</td>
<td>LINE OF CREDIT FOR RENEWABLE ENERGY AND ENERGY EFFICIENCY PROJECT</td>
<td><strong>Purpose:</strong> To support a local bank to finance on-lending to small and medium enterprises for renewable energy/energy efficiency projects in Nigeria</td>
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<tr>
<td></td>
<td><strong>CTF $1.25M, AfDB $48.75M</strong></td>
<td><strong>Key results:</strong></td>
<td>40,359 tons CO2 emissions mitigated, One loan extended to a small to medium enterprise</td>
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<tr>
<td>SOUTH AFRICA</td>
<td>SUSTAINABLE ENERGY ACCELERATION PROGRAM: XINA SOLAR ONE PROJECT</td>
<td><strong>Purpose:</strong> To integrate small solar power plants and rural communities into energy systems in South Africa</td>
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<tr>
<td></td>
<td><strong>CTF $41.5M AfDB $100M</strong></td>
<td><strong>Key results:</strong></td>
<td>473,113 tons of GHG emissions reduced, At least 6,687 green jobs created through construction of NOOR II and NOOR III facilities</td>
</tr>
<tr>
<td>KENYA</td>
<td>DPSP II: CONCESSIONAL FINANCE PROGRAM FOR GEOThermal GENERATION: 35MW GEOThermal IPP PROJECT</td>
<td><strong>Purpose:</strong> To support socio-economic development in Kenya by increasing installed energy capacity, diversifying the country’s energy mix with geothermal power, and fostering private sector development</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>CTF $20M, AfDB $29.5M</strong></td>
<td><strong>Key results:</strong></td>
<td>315,000 tons of GHG Emissions Reduced or Avoided, 92 green jobs created in 2020,100 MW installed capacity from renewables in 2020</td>
</tr>
<tr>
<td>MULTINATIONAL</td>
<td>AFRICA RENEWABLE ENERGY FUND II</td>
<td><strong>Purpose:</strong> A renewable energy private equity fund targeting an aggregate amount of investors’ commitments of $200 million, with a final close target of $150-200 million. Investments in small-medium renewable energy technologies including solar, PV, wind, geothermal, biomass and run-off river hydropower projects with a focus on hybridization and energy storage solutions.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>CTF $10M, SEFA $15M</strong></td>
<td><strong>Key results:</strong></td>
<td>Annual GHG Emission Reduction of 928,000 t CO2 eq, New Renewable Energy Installed Capacity of 840 MW, 1,000 full-time job created</td>
</tr>
</tbody>
</table>

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**Other sources**:
- CIF funding $580M
- ADB funding $1,646M
- Private Sector $320M
- Public Sector $1,867M

**Leverage factor**:
- 20x

**AFDB-CIF Private and Public break down**:
- 17%
- 83%

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**CTF Approval 10/11, AfDB Approval 5/12, Project Start 12/13, Project End 2016**

**CTF Approval 6/14, AfDB Approval 12/14, Project Start 8/15, Project End 2019**

**CTF Approval 6/11, AfDB Approval 5/12, Project Start 12/13, Project End 2016**

**CTF Approval 4/14, AfDB Approval 5/14, Project Start 3/15, Project End 2018**

**CTF Approval 10/10, AfDB Approval 11/10, Project Start 6/11, Project End 2020**

**CTF Approval 5/11, AfDB Approval 6/11, Project Start 11/10, Project End 2021**

**CTF Approval 10/10, AfDB Approval 11/10, Project Start 6/11, Project End 2020**

**CTF Approval 7/10, AfDB Approval 8/10, Project Start 11/10, Project End 2021**

**CTF Approval 6/12, AfDB Approval 7/12, Project Start 11/12, Project End 2023**

**CTF Approval 6/13, AfDB Approval 7/13, Project Start 11/13, Project End 2024**

**CTF Approval 5/14, AfDB Approval 6/14, Project Start 11/14, Project End 2025**

**CTF Approval 4/15, AfDB Approval 5/15, Project Start 11/15, Project End 2026**
DEMOCRATIC REPUBLIC OF CONGO
INTEGRATED REDD+ 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 by addressing land tenure security, agriculture, forestry, and energy.
Key expected results: 4 million tons CO₂ emissions reduced; 30,000 improved cookstoves disseminated; 8,500 ha of forests sustainably managed; 20,000 rural micro-enterprises established; 4,500 land usufruct rights formalized (50% women, youth).

GHANA
ENGAGING LOCAL COMMUNITIES IN REDD+/ENHANCING CARBON STOCKS
FIP $9.75M, AfDB $5.33M
Purpose: To increase carbon stocks and poverty reduction in the off reserve areas of the High Forest Zones by engaging communities in land management approaches that generate direct financial and environmental benefits.
Key results:
- Climate-smart cocoa systems promoted in over 38,658 ha of forest.
- At least 7,092 members of local communities and government benefiting from capacity building activities.

Key expected results: 3.9 million tons of CO₂ emissions sequestered; 33,000 hectares of forest plantations sustainably managed; 1,000 sustainable jobs created; 12,000 beneficiaries to receive seeds, equipment, and financial incentives for alternative livelihood activities.

CÔTE D'IVOIRE
FOREST COVER RECOVERY AND RESILIENCE IMPROVEMENT PROJECT IN THE CENTER
FIP $9M, AfDB $7M
Purpose: To improve the population's resilience and increase carbon sequestration capacity in the country by focusing on the restoration of ecosystems and strengthening agricultural value chains.
Key expected results: 7 million tons of CO₂ equivalent avoided over 25 years; increase of 25% of rural revenue; increase of 10% of vegetation cover.

BURKINA FASO
CLIMATE CHANGE MITIGATION AND POVERTY REDUCTION THROUGH THE DEVELOPMENT OF THE CASHEW SECTOR
FIP $4M, AfDB $1.39M
Purpose: To increase carbon sequestration capacity and reduce poverty in rural areas through promotion of cashew sector production, value chain, and sustainability.
Key expected results: 3.6 million tons of CO₂ sequestered; a 50% increase in cashew productivity per hectare; a quadrupling of the quantity of processed and certified cashew nuts; at least 1,500 cashew producers trained on sustainable practices; and 3,200 green jobs created overall.

GHANA
RESTORATION OF DEGRADED FOREST RESERVES THROUGH CERTIFIED PLANTATION
FIP $10M, AfDB $14M
Purpose: To catalyze private sector involvement in the establishment and maintenance of sustainable commercial forestry plantations on degraded forest reserves in Ghana.
Key results:
- Over 3,900 ha of degraded forest land restored and transformed into commercial forestry plantations since 2017.
- Successful benefit-sharing agreement put in place between private sector, local communities surrounding forest reserves, and Government of Ghana.

Key expected results: 11,700 ha covered by sustainably managed forest plantations; 2.8 million tons CO₂ eq in GHG emissions reductions over 40 years; 40% of all jobs created earmarked for women.

BURKINA FASO
COMMUNITY AGROFORESTRY AND WOOD ENERGY PROJECT
FIP $8M, AfDB $83.4M
Purpose: The project aims at promoting sustainable agricultural development in Congo through the practice of agroforestry by reducing the pressure on forests linked to agricultural activities and wood energy.
Key expected results: 2.6 million tons of CO₂ equivalent avoided over 20 years; 39,750 Livelihood Co-benefits.

CONGO
COMMUNITY AGROFORESTRY AND WOOD ENERGY PROJECT
FIP $8M,AfDB $83.4M
Purpose: The project aims at promoting sustainable agricultural development in Congo through the practice of agroforestry by reducing the pressure on forests linked to agricultural activities and wood energy.
Key expected results: 2.6 million tons of CO₂ equivalent avoided over 20 years; 39,750 Livelihood Co-benefits.

FIP Approval 08/13 AfDB Approval 9/13 Project Start 1/14 Project End 2022

FIP Approval 1/14 AfDB Approval 11/13 Project Start 1/14 Project End 2029

FIP Approval 11/13 AfDB Approval 9/16 Project Start 9/16 Project End 2031

FIP Approval 12/16 AfDB Approval 2/17 Project Start 2/17 Project End 2022

FIP Approval 1/20 AfDB Approval 3/21 Project Start 3/21 Project End 2025
PILOT PROGRAM FOR CLIMATE RESILIENCE (PPCR) EMBEDDING RESILIENCE IN NATIONAL PLANNING

MOZAMBIQUE
BAIXO LIMPOPO IRRIGATION AND CLIMATE RESILIENCE PROJECT
PPCR $15.75M, AfDB $25.79M
Purpose: To contribute to poverty reduction through increased value addition and provision of climate resilient infrastructure for increased agricultural productivity

Key results:
- Annual production of rice and vegetables nearly doubled in project area
- 1,581 new jobs created, including 477 for men and 1,104 for women

Key expected results: Doubling the agricultural production capacity in the project area; and a 150% increase in income within the project area

NIGER
CLIMATE INFORMATION DEVELOPMENT AND FORECASTING PROJECT
PPCR $13M
Purpose: Improve the population’s resilience to climate change through the generation and dissemination of reliable climate information

Key results:
- 8 regional climate information centers now operational
- 1,147 rain gauges installed with installation of another 388 and 343 synoptic stations currently ongoing

MOZAMBIQUE
SUSTAINABLE LAND AND WATER RESOURCES MANAGEMENT PROJECT
PPCR $15.75M, AfDB $3.23M
Purpose: To strengthen capacity of communities to address interlinked challenges of adverse impacts of climate change, rural poverty, food insecurity, and land degradation through promotion of community-based watershed/landsape management

Key results:
- The average area irrigated per household rose from 0.20 ha to 0.46 ha
- Average household production value rose by over 12x, from $29 to $369

Key expected results: Major arable crops (maize and rice) to double yields up to 4 tons per ha; 1,200 ha of forests restored

ZAMBIA
STRENGTHENING CLIMATE RESILIENCE IN THE KAFUE SUB-BASIN PROJECT
PPCR $38M
Purpose: To reduce poverty and enhance the food security of rural communities in the Kafue Basin by strengthening their climate change adaptive capacity and roads infrastructure

Key results:
- A total of 326 micro-projects have been supported to upgrade community and farm infrastructure
- Over 165 km of climate-proofed roads completed

Key expected results: At least 200,000 people in areas at climate risk benefiting from improved livelihoods, 1,150 micro-projects supported to upgrade community and farm-level infrastructure, over 237 km of farm-to-market access roads rehabilitated using climate risk planning models

NIGER
WATER RESOURCES MOBILIZATION AND DEVELOPMENT PROJECT
PPCR $22M
Purpose: To enhance the resilience of rural communities to climate variability and climate change through water resource management

Key results:
- Over 910 ha of degraded land restored
- 11 community management committees established and trained on sustainable water management practices

Key expected results: Contribute to the reduction of rural poverty; increase annual agricultural production to 22,100 tons in project areas, develop water mobilization infrastructure throughout project areas

Photo courtesy of AfDB
Sustainable Land And Water Resources Management Project, Mozambique
Photo courtesy of AfDB
KENYA

MENENGAI GEOTHERMAL DEVELOPMENT PROJECT
SREP $25M, AfDB $120M

Purpose: To meet Kenya’s rapidly increasing demand for power by developing the Menengai geothermal steam field for power generation

Key results:
- Successful preparation of Menengai steam field to generate 170 MW geothermal power for 25 years
- 49 wells drilled toward end construction goal of 50 wells

Key expected results:
- Enabling long-term power production of 124,830 GWh and 540,000 tons of annual CO₂ emissions avoided

SREP Approval 11/11 AfDB Approval 12/11 Project Start 6/12 Project End 2020

KENYA

KOPERE SOLAR PV PROJECT
SREP $11.6M, AfDB $18.17M

Purpose: To design and construct a 40 MW Solar PV power plant, 33/132 kV substation and a 1.8 km transmission line.

Key expected results:
- Increase the national supply availability by 99.29 GWh per year; increase public and private investments by $52 320 000; increase the number of people with improved access to electricity by 600,000; reduce CO₂ emissions by 54,046 tons CO₂ eq per year; creation of 290 temporary jobs and 20 permanent jobs

SREP Approval 4/18 AfDB Approval 9/18 Project Start 9/18 Project End 2023

MALI

MICRO AND MINI HYDRO POWER PLANTS DEVELOPMENT
SREP $8.7 M, AfDB: $27.31 M

Purpose: To increase power production capacity and improve the rural population’s access to modern energy services

Key expected results:
- 8.9 MW of installed energy capacity; 12,500 new households connected to the network; 15,800 tons CO₂ eq per year avoided in greenhouse gas emissions; creation of 420 green jobs

SREP Approval 4/18 AfDB Approval 9/18 Project Start 9/18 Project End pending

MALI

SEGOU SOLAR PV PROJECT
SREP $25M, AfDB $10.44M

Purpose: To design and construct a 33 MW Solar PV power plant and a 33kV transmission line

Key expected results:
- Increase the national energy supply availability by 57 GWh per year; contribute 33 MW of installed solar energy capacity; reduce CO₂ emissions by 55,000 tons CO₂ eq per year; creation of 160 green jobs

SREP Approval 11/16 AfDB Approval 3/17 Project Start pending Project End pending

LIBERIA

RENEWABLE ENERGY FOR ELECTRIFICATION IN EASTERN
SREP $23.5M, AfDB $9.09M

Purpose: The project aims at developing the run-of-river Gbedin Falls HPP with a total capacity of 9.34 MW

Key expected results:
- 9.34 MW of installed energy capacity; increase the national energy supply availability by 54.6 GWh per year, improved access to reliable electricity supply to 10,600 customers leaving in the project area; reduce CO₂ emissions by 44,804 tons CO₂ eq per year; creation of 50 permanent green jobs

SREP Approval 11/11 AfDB Approval 12/11 Project Start 6/12 Project End 2020

KENYA

PROMOTING THE SCALING UP OF RENEWABLE ENERGY PROJECT (PAPERM)
SREP $1.5M, AfDB $0.53M

Purpose: To foster the development of renewable energy in Mali by improving policy, strategy, regulatory, and institutional frameworks

Key results:
- Supported approval of 31 renewable energy projects
- Advances in support of 7 communications activities, 7 dissemination workshops, and a national monitoring system for the renewable energy sub-sector
- Contributed to a 6% increase in the proportion of sector investments going toward renewable energy projects with an increased proportion expected

Key expected results:
- Approval of 40 renewable energy projects; $800 million in public and private financing going toward renewable energy projects; 40% of all investments in the sector going toward renewable energy projects; updated communications and monitoring and evaluation systems in place

SREP Approval 9/14 AfDB Approval 10/14 Project Start 12/14 Project End 2021
<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>COUNTRY/REGION</th>
<th>PUBLIC/PRIVATE</th>
<th>PROJECT STATUS</th>
<th>CIF FUNDING ($ MILLION)</th>
<th>AfDB FUNDING ($ MILLION)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CLEAN TECHNOLOGY FUND (CTF)</strong></td>
<td></td>
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<tr>
<td>Noor I Project</td>
<td>MENA</td>
<td>Public</td>
<td>Operational</td>
<td>100.00</td>
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<tr>
<td>Noor II and III Concentrated Solar Power Project</td>
<td>MENA</td>
<td>Public</td>
<td>Operational</td>
<td>119.00</td>
<td>140.00</td>
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<td>One Wind Energy Program</td>
<td>Morocco</td>
<td>Public</td>
<td>Under Implementation</td>
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<td>Line of Credit for Renewable Energy and Energy Efficiency Projects</td>
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<td>Private</td>
<td>Under Implementation</td>
<td>1.25</td>
<td>48.75</td>
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<td>Eskom Renewable Support Projects - Sere Wind Farm</td>
<td>South Africa</td>
<td>Public</td>
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<tr>
<td>Sustainable Energy Acceleration Program - Xina CSP Project</td>
<td>South Africa</td>
<td>Private</td>
<td>Operational</td>
<td>41.50</td>
<td>100.00</td>
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<tr>
<td>Geothermal Concessional Finance Program for Geothermal Generation:35 MW Geothermal IPP Project</td>
<td>Kenya</td>
<td>Private</td>
<td>CIF-Approved</td>
<td>20.00</td>
<td>29.50</td>
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<td>Midelt Concentrated Solar Power Project</td>
<td>MENA</td>
<td>Public</td>
<td>CIF-Approved</td>
<td>25.00</td>
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<tr>
<td>Facility for Energy Inclusion</td>
<td>Multinational</td>
<td>Private</td>
<td>CIF-Approved</td>
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<td>Africa Renewable Energy Fund II</td>
<td>Multinational</td>
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<td>Restructure Eskom Renewable Energy Program - Battery Storage</td>
<td>South Africa</td>
<td>Public</td>
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<td>Enabling Access to Off-Grid Energy</td>
<td>Ethiopia</td>
<td>Private</td>
<td>CIF-Approved</td>
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<td>Lagos Cable Car Project</td>
<td>Nigeria</td>
<td>Private</td>
<td>CIF-Approved</td>
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<td>Private</td>
<td>CIF-Approved</td>
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<td>23.00</td>
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<td>Tulu Moyo Geothermal Power Project</td>
<td>Ethiopia</td>
<td>Private</td>
<td>CIF-Approved</td>
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<td><strong>FOREST INVESTMENT PROGRAM (FIP)</strong></td>
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<tr>
<td>Gazetted Forests Participatory Management for REDD+ Project</td>
<td>Burkina Faso</td>
<td>Public</td>
<td>Completed</td>
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<td>Integrated REDD+ Project in the Mbuj-Mayi/Kananga and Kisangani Basins</td>
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<td>Engaging Local Communities in REDD+/Enhancing carbon stocks Project</td>
<td>Ghana</td>
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<td>9.75</td>
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<tr>
<td>Restoration of Degraded Forest Reserve through VCS and FSC Certified Plantations Project</td>
<td>Ghana</td>
<td>Private</td>
<td>Under Implementation</td>
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<td>Climate Change Mitigation and Poverty Reduction though the Development of the Cashew Sector Project</td>
<td>Burkina Faso</td>
<td>Private</td>
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<td>Forest Cover Recovery and Resilience Improvement Project</td>
<td>Côte d’Ivoire</td>
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<td>AFDB-Approved</td>
<td>9.00</td>
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<td>Community Agroforestry and Wood Energy Project</td>
<td>Congo</td>
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<td>AFDB-Approved</td>
<td>8.00</td>
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<td><strong>PILOT PROGRAM FOR CLIMATE RESILIENCE (PPCR)</strong></td>
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<td>Sustainable Land &amp; Water Resources Management Project</td>
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<td>Baixo Limpopo Irrigation and Climate Resilience Program</td>
<td>Mozambique</td>
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<td>Water Resources Mobilization and Development Project</td>
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<td>Climate Information Development and Forecasting Project</td>
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<td><strong>SCALING-UP RENEWABLE ENERGY PROGRAM (SREP)</strong></td>
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AfDB-CIF AT A GLANCE

28 APPROVED PROJECTS (of which 8 fully implemented projects)
+ 20 PROJECT PREPARATION GRANTS
+ 12 PROJECTS TO BE APPROVED
+ 4 TECHNICAL ASSISTANCE

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