



UN CLIMATE CHANGE HIGH-LEVEL CHAMPIONS



Climate Champions' Extended Compendium of Climate-Related Initiatives

Regional Project List for Africa

NOVEMBER 2022

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Overview of Projects

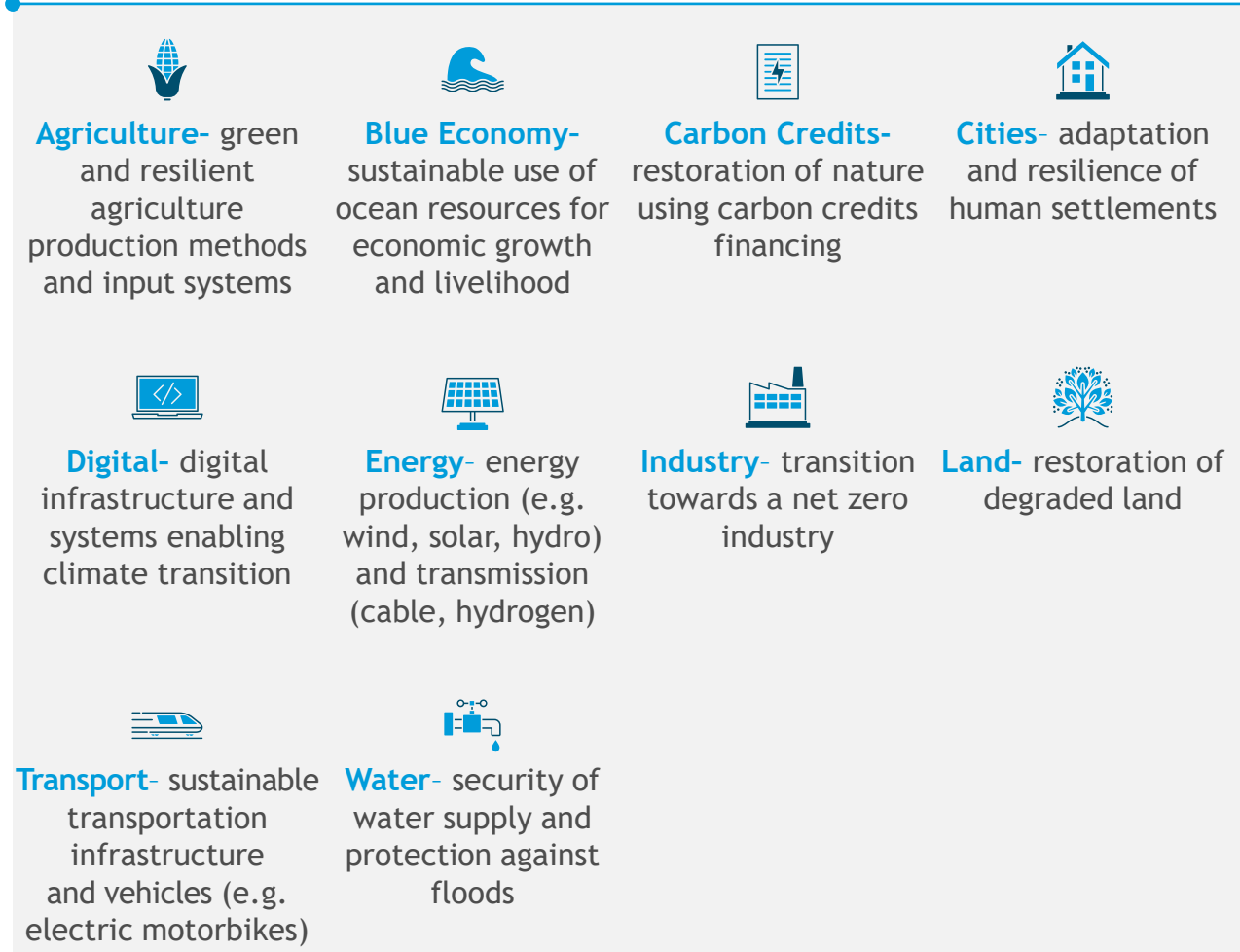
Categorization

Aggregated view

Project view

We have categorized our projects using two dimensions

Projects are categorized across ten different themes...



... and across five different impact types

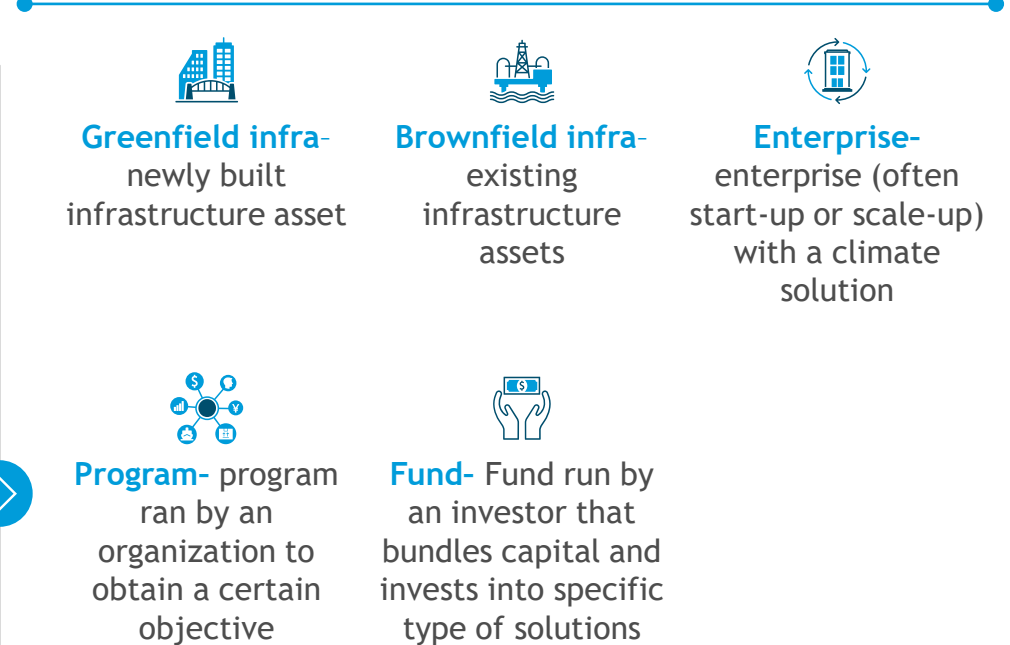


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Overview of Projects
Categorization
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Project view

UNECA | 30 projects included in this document

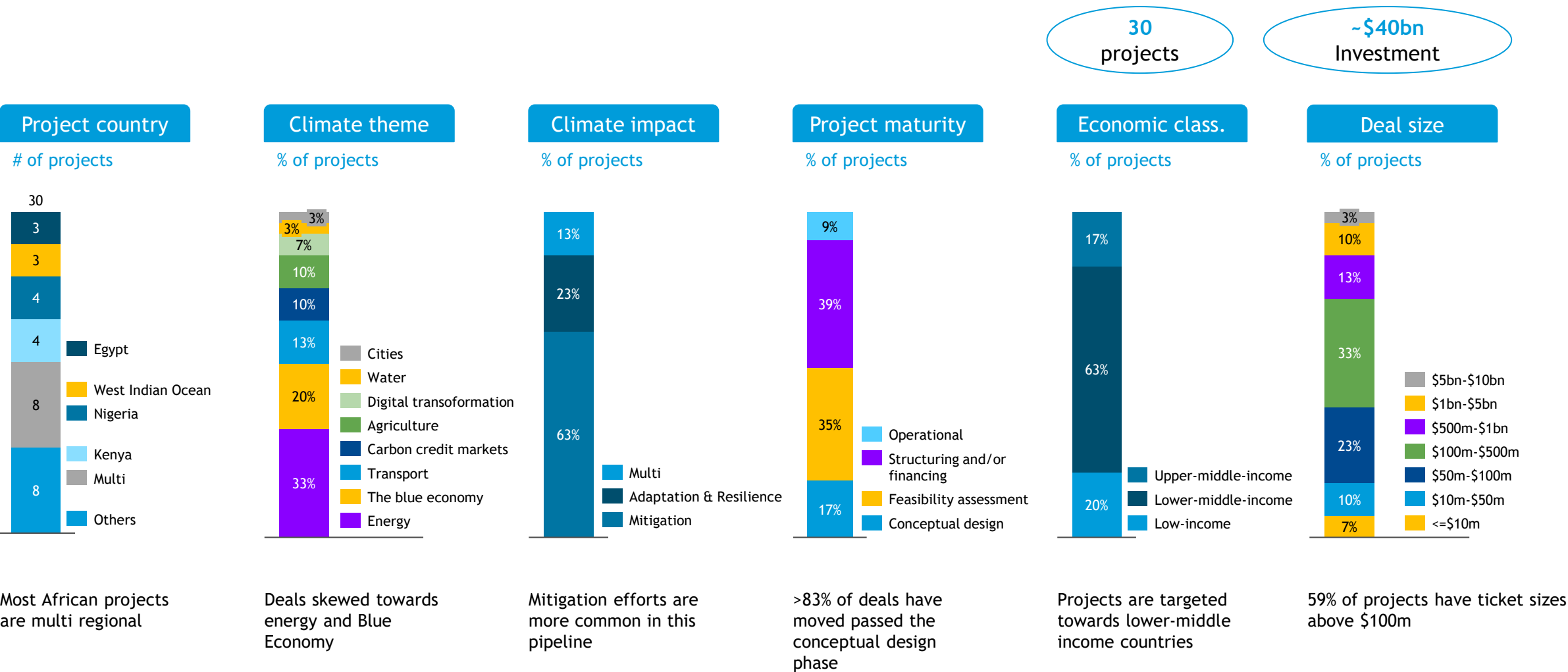
Theme	Project	Country	Cost(m\$)
Agriculture	Crop adaptation in the Nile Valley and Delta	Egypt	800
	Regenerate 30	Multi	500
	Victory Farms Kenya	Kenya	TBD
Carbon credit markets	Conservation of Forests in the COMIFAC Area	Multi	7
	Mangrove restoration	Nigeria	10
	Restoration of degraded land	Multi	10000
Cities	Construction of primary drainage channels in 4 regions in Lagos State	Nigeria	2530
Digital transformation	Mauritius water infrastructure SCADA system	Mauritius	10
	Transborder Submarine Fiber PoPs and Regional Smart Hub	Kenya	70
Energy	150 MW Regional Solar Power Park Project in Mali	Mali	250
	3 GW Mambilla Hydroelectric Power Project	Nigeria	5800
	Arch Holdings Clean Cooking Programme [Replacing Woodfuel Use with LPG (Clean Cooking Option)]	Ghana	124
	Dibwangui hydroelectric power plant (Eranove)	Gabon	138
	Pioneer Energy Investment Initiative: Powering Livelihoods Using Solar (PEII+)	Kenya, Nigeria, India	25
	Phoenix Edison Anambra Power (Waste-to Energy)	Nigeria	115

Theme	Project	Country	Cost(m\$)
Energy	Renewable Energy Performance Platform ("REPP")	London	500
	Replacement of thermal power with renewables	Egypt	10000
	Schonau Solar Energy	Namibia	107
	Sistema.bio - Creating Value from Waste (enterprise)	Kenya	30
	7 Regenerative Seascapes	Western Indian Ocean	50
Blue Economy	Blue Bond and debt for Nature Swap	Western Indian Ocean	5
	Blue carbon accelerator fund	Multi	50
	Blue Natural Capital Financing Facility (BNCFF)	Western Indian Ocean	120
	Congo Basin solid river waste treatment	DR Congo	41
	Regenerative Blue Entrepreneurship Accelerator	TBD	20
Transport	Ampersand	Rwanda, Kenya	22
	BasiGo Bus Electrification in Kenya (enterprise)	Kenya	5
	Egypt electric light rail network	Egypt	6020
	Metro Africa Xpress Electric Mobility Platform	Cameroon, Egypt, Ghana, Nigeria, Rwanda, Uganda	TBD
Water	Lesotho Botswana Water Transfer	South Africa	2700

Project sources: UNECA, Breakthrough, PIDA, GBW, CBCC

To be put in touch with the relevant project owner(s), please reach out to the High-Level Champions Finance Team at hlcfinanceprojects@climatechampions.team and UNECA at deka.moussaragueh@un.org

UNECA | 30 projects included in this document



Most African projects are multi regional

Deals skewed towards energy and Blue Economy

Mitigation efforts are more common in this pipeline

>83% of deals have moved passed the conceptual design phase

Projects are targeted towards lower-middle income countries

59% of projects have ticket sizes above \$100m

Note: Not all data is currently available for all projects, e.g., latest milestone data missing for a few projects; Project countries classified as "others" have frequency <3 and include Tanzania, South Africa, Mali, Mauritius, Ghana, Gabon, Rwanda, Namibia and DR Congo; Source: UN Regional Economic Commissions; CDCC; Breakthrough; PIDA; GBW; To be put in touch with the relevant project owner(s), please reach out to the High-Level Champions Finance Team at hlcfinanceprojects@climatechampions.team and UNECA at deka.moussaragueh@un.org

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30 projects included from UNECA

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Key info



Agriculture
(crops)



Program

Egypt is planning to carry out several activities to encourage farmers to adapt new genotypes and technologies. Also, Egypt is planning to build resilience to unusual weather events in the delta and to address the effects of climate change on agricultural productivity, livelihoods and food security

Timelines

Project stage: Feasibility

Project timelines: 2023-2030 duration of implementation

Location

Country: Egypt

Project structure

Owner

Ministry of Agriculture and Land Reclamation, Egypt

Impact



Adaptation &
resilience

The project will target 1.5m ha of land and 30m people in rural areas, aiming to ensure 20% of Nile Delta and Valley communities are resilient and aware of adaptation options. The program will also aim to increase annual production of wheat, barley, maize and sorghum to 12.2m, 0.45m, 10.6m, and 1.5m tones, respectively, with a total value of more than \$54bn by 2030

1.5mn ha land

Financing

\$800m

Total project
cost



Key info



Agriculture



Revenue generating programs

Project overview

Regenerate 30 is a farmer and business centered initiative that will deliver impact by scaling proven, locally owned and nature-based solutions. It will test new innovations and scale what works across four key areas: Agriculture (Farmers Regenerate), Blue Economy (Blue Business), Micro and small entrepreneurs (Regeneration Factory), Food processing (Food for the Future)

Timelines

Current project stage: Conceptual design

Conceptual design period: 2021-2022

Feasibility assessment period: 2022-2023

Structuring/financing period: 2022-2023

Construction/development period: 2023-2030

Operating period: 2023-2030

Location

Countries: Benin, Botswana, Burundi, DR Congo, Ethiopia, Ghana, Kenya, Madagascar, Malawi, Mozambique, Nigeria, Rwanda, Senegal, South Africa, Tanzania, Uganda, Zambia, Zimbabwe

Impact



Mitigation (avoidance)

By 2030, the initiative will result in: 30% average income increase for small-scale farmers and businesses, 30 million tons of CO2e cut, 30 million acres of land sustainably managed, protected or restored, 30 million people in Sub-Saharan Africa, Latin America and India benefitting, \$300 million in private sector investment in farms and businesses

SDGs: 1, 2, 5, 8, 10, 12, 13, 14, 15

3M

beneficiaries of initiative

30mt CO2e

carbon sequestration

Project structure

Developer

Technoserve

Project partners

Nespresso, Danone, USAID, USDA, SIDA, Ikea Foundation

Financing

\$500m

Total project cost

Investment secured: \$100M

\$400m

Current funds required

Use of funds: Mobilization and establishment of flagship interventions

Financing instrument: Grant

Time frame for financing: 8years



Key info



Agriculture



Enterprise

Current revenue

+\$20m (2022)

Current production

8000 metric tones
fish (2022)

Target revenue

\$300m (2027)

Project overview

Victory Farms is a vertically-integrated white protein platform based in Kenya, with additional operations in Rwanda and Tanzania. Since its founding in 2015, Victory farms has built a core farm in Roo Bay, Western Kenya with 11k metric tones of production facility, 60+ wholly-owned branches across Nairobi and Western Kenya, and serves 12,000+ market ladies. Victory Farms has a world-leading ESG focus, and aims to be the first carbon negative fish farm.

Timelines

Current project stage: Operational

Feasibility: 2015-2016

Revenue generating: January 2017

Break-even point: 2020

Location

Countries: Kenya, Tanzania, Rwanda

HQ: Kenya

Impact



CO₂ Mitigation

Impact:

- Tilapia's carbon emission is 3x lower than chicken (1.5 kg CO₂/kg Protein vs 5.3 for chicken)

SDG: 1, 2, 3, 5,
8, 10, 12, 13

6k+

direct job
opportunities

150k+ indirect job
opportunities
(transport, selling etc.)

**400k MT
CO₂e
mitigation**

Project structure

Legal structure
Netherlands

Latest milestone
Operational

Financing

Available on request



Key info



Carbon credits



Non-revenue
generating
program

Forest conservation program to conserve forests in the COMIFAC area (Commission des Forêts d'Afrique Centrale) in Central Africa, through governance and local management, land rights, and sustainability policies. Potential scope for implementation of a carbon credits scheme

Timelines

Current Project stage: Feasibility assessment

Structuring phase: 2023-2024

Construction phase: 2024

Operational phase: 2024-2030

Region

Countries: Gabon, Rwanda, Congo Brazzaville, Burundi, Cameroon, Central African Republic, Chad, DRC

Project structure

Project sponsor

Responsable des communautés
autochtones d'Afrique chez (REPALEAC)

Project financing arrangers

REPALEAC

Impact



Mitigation
(REDD+)

The COMIFAC forest conservation project will lead to the conservation of forests in Central Africa, resulting in CO2e of sequestration

SDGs

1, 3, 7, 8, 10, 11, 12, 13, 15, 17

Financing



Total project
cost

Financing instrument: Grant funding, non-revenue generating

Type of finance required: grant



Key info



Carbon Credits



Program

Project overview

By 2030, 82% of wetlands will be inundated. If properly restored, they can provide a natural protection. 40% of Lagos State is covered with water bodies & wetlands providing a great opportunity for nature-based solutions to protect against climate change. However, the city's rapid urbanization resulted in reclamation of wetlands for housing and infrastructures leading to loss biodiversity & valuable ecosystem services. Restoration of mangroves in Amuwo Odofin, Ikorodu, Kosofe, Eti-Osa & Epe (116ha restorable area)

Timelines

Current project stage: financing

Location

Country: Nigeria

Project structure

Project sponsor

Lagos state
Government

Impact



Adaptation &
resilience



Mitigation

SDG: 11 & 13

\$23m fishery
activities
revitalized

**250k tons of
CO2e** stored

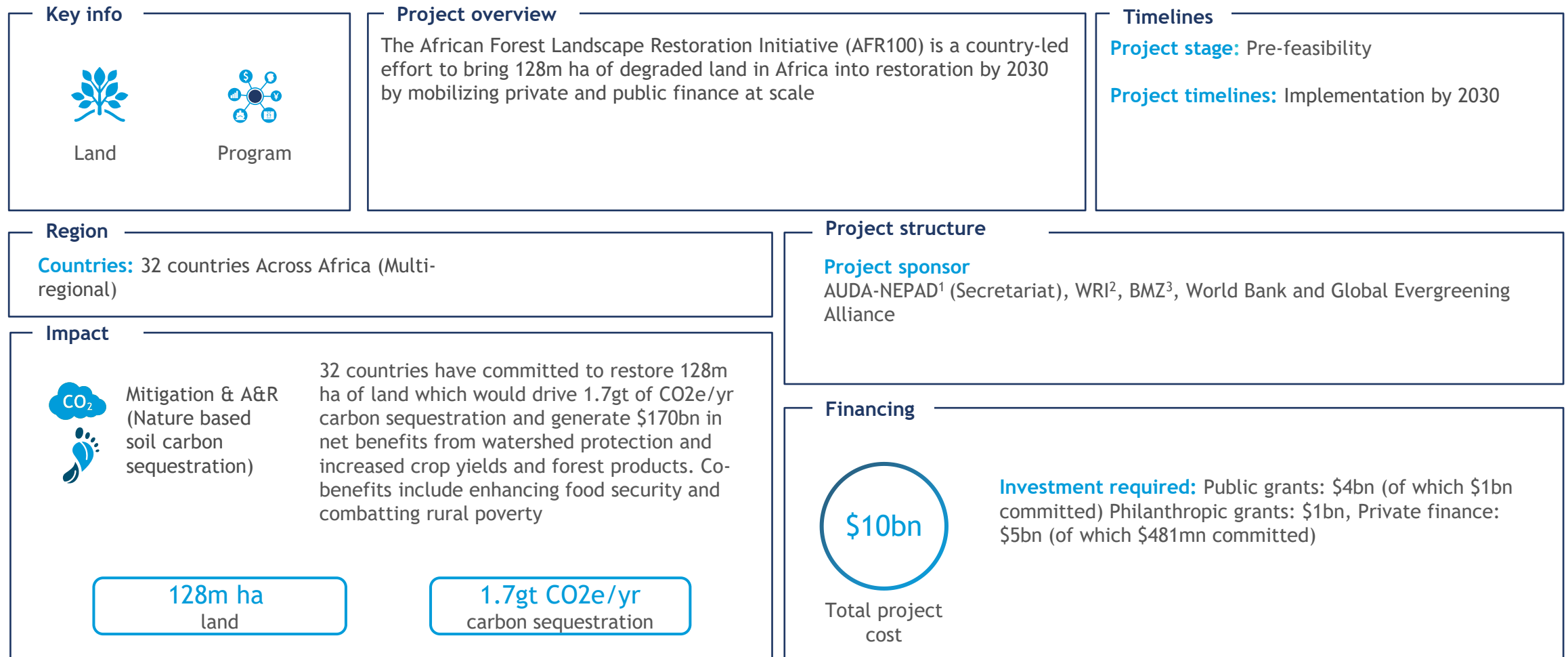
\$2.3bn GDP
loss avoided

>510k people
protected

Financing

\$10m

Total project
cost



Project source: UNECA

To be put in touch with the relevant project owner(s), please reach out to the High-Level Champions Finance Team at hlcfinanceprojects@climatechampions.team and UNECA at deka.moussaragueh@un.org

Construction of primary drainage channels in 4 regions in Lagos State

Cities



Key info



Cities



Infra asset -
Brownfield

Project overview

By 2030, 165km² will be inundated across 14 LGAs in Lagos leading to > 1.4M people affected by Sea Level rise and storm surges. Current drainage systems are inadequate and not resilient enough to face upcoming climate events. No existing engineered storm water drainage system in most areas, and where available, it is in poor condition. Lagos State has developed a detailed drainage master plan to assess current drainage systems and suggest modifications for a more resilient Lagos State

Timelines

Current project stage: Structuring

Conceptual design period: 2015

Feasibility assessment period: 2015

Structuring/ financing period: 2022-2023

Construction/ development period: 2023-2028

Operating period: From 2028

Location

Country: Nigeria

Project structure

Developer

Ministry of
Environment, Nigeria

Contractual structure

Design, build, operate

Impact



Adaptation
& resilience

Protection of 400K+ people living in exposed areas to flooding, Protection of 400K+ people living in exposed areas to flooding, \$759M of capital cost due to damaged infrastructures will be avoided, \$4.4bn in annual GDP will be protected (avoided disruptions from flooding)

400k

people living in susceptible
areas will be protected

Financing



Total project
cost

Financing instrument: Public-private
partnership



Key info



Digital
transformation



Program

Project overview

Mauritius plans to implement digital solutions to remotely monitor and control equipment and accessories (pumps, gensets, meters, water levels, etc.) at various pumping stations, service reservoirs, water treatment plants and its water distribution network to become more efficient in servicing water needs across sectors

Timelines

Project stage: S2A-Feasibility

Project timelines: Feasibility study, design and bid documents to be completed by April 2022. Implementation planned over 2 years from July 2022

Location

Country: Mauritius

Project structure

Owner: Central Water Authority, Mauritius

Impact



Adaptation
& resilience

The program will help transform existing water storage and distribution systems to become more efficient in servicing water needs across Mauritius and enhance the resilience of water distribution systems to adverse impacts of climate change

Financing

\$10m

Funds
required

Transborder submarine fiber PoPs and regional smart hub

Digital



Key info



Digital
transformations



Infra asset
(greenfield)

Kenya plans to develop a digital inter-connectivity infrastructure at its border points comprising 400 Gbps point-of-presences (PoPs) and Smart Hub data centers, aiming to provide connectivity between submarine fibre from the Indian Ocean and borders with other EAC countries

Timelines

Project stage: S3A-Project Structuring

Location

Country: Kenya

Project structure

Owner: Intergovernmental Authority on Development (IGAD)

Impact



Adaptation &
resilience

The fibre PoPs and regional smart hub data centers will help connect the country and region, increasing resilience and ability to adapt to the effects of climate change, with additional significant developmental co-benefits

Financing

\$70m

Funds
required

Project source: PIDA

To be put in touch with the relevant project owner(s), please reach out to the High-Level Champions Finance Team at hlcfinanceprojects@climatechampions.team and UNECA at deka.moussaragueh@un.org

150MW regional solar power park in Mali

Energy



Key info



Energy (solar)



Infra asset
(greenfield)

Project overview

The West African Power Pool (WAPP) aims to create a unified ECOWAS power market and exchange among members. To this effect, it is developing a solar PV power plant with a storage facility in Mali with capacity of 150 MW which will help Mali and other ECOWAS countries increase their supply and use of renewable energy

Timelines

Project stage: S3B - Transaction Support & Financial Close

Project timelines: Feasibility studies completed. SAPP-PAU is mobilising resources for project

Location

Operating country: Mali

Beneficiary markets: Mali, Burkina Faso, Cote d'Ivoire, Guinea and Senegal

Project structure

Owner

West African
Power Pool

**Contractual
structure**
TBC

Project sponsor
TBC

Impact



Mitigation
(avoidance)

The expected production of renewable energy is 498 GWh per year, which will help to decrease the power supply deficit in the region and increase the component of renewable energy in the regional energy mix with 24t CO2e avoided¹

498 GWh/yr
renewable energy

Financing

\$250m

Total project
cost

Investment secured: World Bank provided funding for completing the feasibility study

1. Estimated using Avoided Emissions Calculator of IRENA

To be put in touch with the relevant project owner(s), please reach out to the High-Level Champions Finance Team at hlcfinanceprojects@climatechampions.team and UNECA at deka.moussaragueh@un.org

3GW Mambilla hydroelectric power (PIDA PAP2)

Energy



Key info



Energy (hydro)



Infra asset
(greenfield)

Project overview

Hydroelectric facility being developed on the Dongo River in Nigeria with capacity of 3GW. The project is being undertaken by the Federal Ministry of Power. This will be Nigeria's biggest power plant, with produced energy to also be exported to other ECOWAS countries

Timelines

Project stage: S3A-Project Structuring

Project timelines: Plant expected to be fully operational by 2030

Location

Operating country: Nigeria

Beneficiary countries: Nigeria, Niger, Togo, Benin and Chad

Project structure

Owner: Federal Ministry of Power, Nigeria

Impact



Mitigation
(avoidance)

The asset will produce 5,457 GWh of renewable energy per year, helping Nigeria meet its target for 90% electricity access rate and 30% renewable energy use by 2030. It will replace a mix of grid, diesel and petrol generators worth 3,170Mt CO₂e¹

5,457 GWh/yr
renewable energy

Financing

\$5.8bn

Project cost

Investment secured: The Project will be financed in part through a loan from the Exim Bank of China

1. Estimated using Avoided Emissions Calculator of IRENA



Key info



Energy



Infra asset
(brownfield)

Project overview

Phase 2 of our clean cooking programme where we are replacing the use of woodfuels for cooking with LPG which is a safer and cleaner fuel. Phase 1 involved the investment of over \$130m to develop the necessary storage and discharge facilities to facilitate LPG available in Ghana. Phase 2 involves: (i) building 2 LPG Cylinder bottling and refilling facilities, (ii) Acquisition of over 2m cylinders, (iii) Establishment of over 5,000 LPG distribution centres and (iv) The construction of a composite cylinder manufacturing plant.

Timelines

Current project stage: phase 2, structuring and execution

Conceptual design: 2012 (phase 1, updated in 2020)

Construction: 2021-2023

Operating: 2023 onwards

Location

Country: Ghana

Project structure

Contractors

- Makeen
- Workfields Construction
- Gorilla Woods

Impact



Mitigation

Impact:

- Health benefits (reduced air pollution)
- Less trees cut down
- 250,000MT/yr at max capacity
- 7500 jobs created

SDG: 3, 5, 7, 8, 9, 11, 13

50%

Household
penetration in 2030
(vs 25% in 2022)

**3 million
households
reached** by 2030

**72 million
trees saved**

Financing

\$138m

Raised so far
(phase 1)

\$124m

Funding
required

Type of funding: debt, grants

Target gearing: 80/20 debt equity

Dibwangui hydroelectric power plant (Eranove)

Energy



Key info



Energy (hydro)



Infra asset
(greenfield)

Project overview

Dibwangui is a run-of-river hydroelectric power plant project with a capacity of 15MW, which will provide 90GWh of renewable energy in southern rural Gabon (interconnected grid of Louetsi). The project is part of the country's commitment to the Paris Climate Agreement to reduce its greenhouse gas emissions by at least 50% by 2025 by initiating an energy transition based primarily on hydropower. The power plant will supply energy to the interconnected grid of Louetsi in South Gabon.

Timelines

Current project stage: Financing phase

Conceptual design period: 2016-2019

Feasibility period: 2019-2022

Financial close: 2022-2023

Construction: 2024-2027

Operating period: 2027-2057

Location

Country: Gabon

Project structure

Sponsors

Eranove, FGIS and
Gabon Power Company

Contractual structure

Build, operate, transfer

Impact



Mitigation

Impact: clean electricity and transmission line to rural and local grid

MRV: ensured by Eranove Group's annual sustainable development report, which is audited by Mazars and available online as part of the annual non-financial reporting commitments

SDG: 13, 7, 11
and 8

90 Gwh
electricity per year

70,000
Gabonese
provided with energy

4 mton
CO2e avoided
over 30years

Financing

\$138m

Total project
cost

\$125m

Private Capital
required

Type of funding: Grants (for rural electrification)

Target gearing: 75/25 debt to equity

Phoenix Edison Anambra Power (Waste-to Energy)

Energy



Key info



Energy



Infra asset
(greenfield)

Project overview

This project is developing Nigeria's first (and Africa's second) waste-to-energy plant in Anambra State, southeastern Nigeria, that will generate 24MW of power by processing 275,000 tons annually of municipal solid waste (MSW) that would otherwise have gone into landfills. It aims to solve the twin challenges of power generation and sustainable waste management in Africa's fast-growing urban areas.

Timelines

Current project stage: Seed

Location

Country: Nigeria

Project structure

Project sponsor
Anambra State
government

Contractors

- Harvestwaste (NL)
- RDC Environment (BE)
- ESIA

Impact



Mitigation

Impact:

- Power supplied to Nigeria helping increase availability and reliability
- Enhance waste recycling
- Improve waste management
- Decarbonisation (120% of CO₂ emissions avoided compared to landfill)

SDG: 6,7,8

275k tonnes
of waste processed
per annum

24MW
electricity
capacity

0.3 mt CO₂e
avoided

200 jobs once
fully operational

Financing

\$115m

Total project
cost

\$30m

Amount
committed

Financing source: Anambra State,
Phoenix Edison Anambra Power, Equity
Fund

Target gearing: 70/30 debt equity

Type of financing required: Grant,
equity, convertible and debt

Of which public capital: \$2m

Pioneer Energy Investment Initiative: Powering Livelihoods Using Solar (PEII+)

Energy



Key info



Energy



Program

Project overview

PEII+ is a 5-year, \$25 million dollar initiative that will invest early-stage capital in companies that provide renewable energy-powered appliances- from mills and irrigation pumps to electric motorbikes and refrigerators- to microentrepreneurs and smallholder farmers in India and East and West Africa. The goal is to leverage these technologies to boost incomes and climate resilience in vulnerable communities.

Timelines

Current project stage: Seed (pre-revenue)

Location

Countries: Kenya, Uganda, Tanzania, Rwanda, Nigeria, Ghana, Sierra Leone, India

Project structure

Sponsors: IKEA Foundation, Charles and Lynn Schusterman Family Philanthropies, Autodesk Foundation, Distributed Power Fund, PEII+, UK AID TEA

Developers: Acumen

Impact



Mitigation

SDG: 1,2,7,13,8

Financing



Total project cost

Type of funding require: Grants (philanthropic)

Renewable Energy Performance Platform ("REPP")

Energy



Key info



Energy



Enterprise

Project overview

REPP is an innovative fund with the aim to accelerate the energy transition in Africa. REPP invests in small to medium-sized renewable energy projects (up to 25MW) and companies in Africa. With 56 investments across 17 African countries, REPP phase 1 is nearing the end of its deployment period. REPP2.0 will be a blended finance facility structured to scale up the work done in phase 1.

Timelines

Current project stage: Fundraising

Fundraising period: 2022-2023

Investment period: 2024-2030

Location

Countries: all African countries

Fund location: London

Project structure

Fee structure
Standard

Legal structure
LLP

Project sponsor
UK Government
Camco

First loss tranche
Minimum 30% first
loss

Impact



Mitigation

MRV: The Camco impact team has built a proprietary online reporting system used by REPP investees to report their progress towards KPIs on a quarterly basis. External audits and check are done on a regular basis

SDG: 7,13, 5, 1,
8, 11

Over projects lifetime:

1.4m MWh
renewable energy
produced

+103k jobs
created

12m people
access to clean
energy

31mt CO2e
Mitigated

Financing



Total fund
size

Min. ticket size: \$5m

Avg. ticket size: \$10m

Public investment secured: \$120m in
phase 1 (UK government)

Public investment expected: \$200m in
phase 2

Target gearing used: 70%, 30% equity

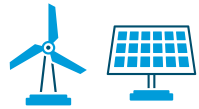
Target return: 12% IRR (equity)

Replacement of thermal power with renewables

Energy



Key info



Energy (wind and solar)



Infra asset (greenfield)

Project overview

Egypt will decommission 17 inefficient thermal power plants with combined capacity of 7.5 GW and replace them with 5.1 GW of wind power and 6.2 GW of solar PV. This project to be delivered mainly by the private sector

Timelines

Project stage: Feasibility

Project timelines: 2022-2035 duration of implementation

Location

Country: Egypt

Project structure

Owner: Ministry of Electricity and Renewable Energy and Ministry of Environment

Impact



Mitigation (avoidance)

Replacement of Egypt's inefficient thermal power with renewables will lead to GHG reduction of 7.7m t-CO₂e per year helping the nation to meet its 2030 emissions reduction targets

7.7M t CO₂e/yr
GHG reduction

Financing

\$10bn

Total project cost

Source: Egypt NCCS

To be put in touch with the relevant project owner(s), please reach out to the High-Level Champions Finance Team at hlcfinanceprojects@climatechampions.team and UNECA at deka.moussaragueh@un.org



Key info



Energy



Infra asset
(greenfield)

Project overview

Schonau Solar Energy is a 125 MWp solar PV plant being developed by Emesco Energy Namibia. near the town of Karasburg in the Kharas Region of southern Namibia. The project will generate and export the electricity with the purpose of selling energy into the Southern African Power Pool (SAPP) Competitive Markets. The plant will support carbon mitigation and reduce cost of energy across the SAPP member countries.

Timelines

Current project stage: Funding

Location

Country: Namibia

Other countries impacted: South Africa, Lesotho, Eswatini, Zimbabwe, Botswana, Zimbabwe, Mozambique, Zambia, Malawi & DRC

Project structure

Project sponsor

Emesco energy

Contractors

To appointed through competitive bid process

Impact



Mitigation

Impact:

- Reduce cost of electricity, improving access (600m people in SDAC region do not have access to power)

SDG: 7,8,9,13

75 seasonal and permanent jobs

400 temporary jobs created

332k ton CO2e avoided annually

Financing



Total project cost

Investment secured: \$5m

public capital committed: \$25m

Type of funds required: Senior debt, Concessional debt, Common equity, guarantee

Target gearing: 75/25 debt equity



Key info



Energy



Enterprise

Project overview

Sistema.bio is working on building food systems with net-negative emissions that feed a growing population and adapt to climate impacts. Starting with high-quality, affordable biodigester technology that converts organic waste to clean energy and fertilizer, Sistema.bio gives farmers the tools they need to improve their economic conditions, reduce GHG emissions, and build their soil productivity. Sistema.bio is a leader in the clean cooking and agricultural space, operating globally.

Timelines

Current project stage: operational, growth

Seed funding: 2013

Series A: 2019

Series B: 2021

Location

Country: regional hub in Kenya, active in Kenya and Uganda

HQ: Mexico

Project structure

Current investors: KawiSafi, Axa, Engie, Chroma, EU ElctriFi Fund Blink CV, Co Capital, Triodos Bank

Impact



Mitigation

Impact:

- 17,000 systems installed and ordered in Kenya and Uganda

Objective:

- Reach one million people / 250k farms by 2025
- Increase efficiency and farmer experience

SDG: 1,2,7,13

+89m3

biogas produced

+220k

people impacted

398k tons

CO2e mitigated

Financing

\$10m

Investment required in next 12 months

\$30m

Raised so far

Use of funds: working capital & manufacturing capacity increase (up to 60k units)

Type of funding required: debt (Senior Secured Debt 35 yrs or Unsecured Uncommitted 1 year)

Min investment size: \$1m

Current MDBs: FMO, EDFI

Of which public capital: none

7 Regenerative Seascapes



Key info



Blue economy



Program

Project overview

Program for the creation and management of regenerative seascapes and marine conserved areas in the Western Indian Ocean. Canada keen to initiate establishment in this Seascope areas, WIOMSA to provide scientific backstopping, and NC to provide the regional policy coordination mechanism

Timelines

Project stage: Structuring / execution

Region

Countries: Comoros, Kenya, Madagascar, Mozambique, Tanzania, Seychelles

Impact



Mitigation
(nature-based
sequestration)

The 7 regenerative seascapes program will lead to:

- The preservation of 1 million km² of marine and coastal area
- 100mt CO₂e of carbon sequestration
- Co-benefits of developing of local blue livelihoods

1m km²

marine and coastal area

100mt Co2

Sequestration

Project structure

Project sponsor

Great Blue Wall initiative

Financing

\$50m

Grant funding
required

\$10m

Funding
secured

Use of funds: to fund all seascope design, establishment and management activities (including blue economy related activities to engage actively local communities in management of these areas)



Key info



Blue economy



Program

Project overview

Structuring, pipeline building, and private investor coalition building for the blue bond and debt-for-nature swap program of the Great Blue Wall (GBW) initiative. An innovative financing mechanism in which the debt of developing countries is purchased in exchange for commitments to preserve blue natural environments

Timelines

Project stage: Design phase

Project timelines: Implementation by 2030

Region

Countries: Comoros, Kenya, Madagascar, Mozambique, Tanzania, Seychelles

Project structure

Project sponsor: Great Blue Wall initiative

Impact



Mitigation

The blue bond and debt-for-nature swap program will lead to the conservation of c.2 million km² of the Western Indian Ocean, leading to increased additional capacity of restored and rehabilitated blue ecosystems to sequester up to 100mt CO₂ by 2030

2 million km²

critical blue ecosystems restored, rehabilitated and effectively protected and conserved

100mt Co2

Sequestration by 2030

Financing



Required funding

Investment secured: The Nature Conservancy (TNC) involved in Seychelles Blue Bond

Use of funds: to establish a Blue Finance Hub that will spearhead the development of a pipeline of projects, support countries in developing relevant commitment/policies as counter part of debt swaps (end related mechanism to implement these) and engage with key partners to secure funding and technical support.



Key info



Blue economy



Program

Project overview

Part of the International Union for Conservation of Nature and Natural Resources' (IUCN) Great Blue Wall (GBW) initiative, BCAF is a funding scheme supporting entrepreneurs and developers of blue carbon restoration and conservation projects, through readiness, implementation, and technical support

Timelines

Project stage: Initiative is fully operational

Project timelines: First Call for Proposal issued in 2022 with four initial projects selected for support

Conceptual design period: 2022

Structuring/financial close period: 2023

Region

Countries: Comoros, Kenya, Madagascar, Mauritius, Mozambique, Seychelles, Somalia, South Africa, Tanzania

Project structure

Project Sponsor

Great Blue Wall initiative

Project arrangers

IUCN

Impact



Mitigation

BCAF will increase the supply of investment-ready blue carbon restoration projects, supporting key carbon sinks such as mangroves, tidal marshes and seagrasses, while also protecting biodiversity and supporting livelihoods by 2030

40k ha Mangroves

10k ha Seagrass

Financing

\$50m

Program cost for scaling the formulation of a solid and robust pipeline of bankable blue carbon projects

\$500m

Direct investment required for operationalizing priority pipeline initiatives

Investment secured:

Initial funding by the Australian Government in partnership with IUCN

Blue Natural Capital Financing Facility (BNCFF)

Blue Economy



Key info



Blue economy



Program

Project overview

Part of the International Union for Conservation of Nature and Natural Resources' (IUCN) Great Blue Wall (GBW) initiative, BNCFF supports the development of investable blue natural capital projects, by helping developers build business cases, prepare for investment, and showcase their projects to potential private investors

Timelines

Project stage: Fully operational and already supporting projects in Africa and beyond

Project timelines: 12 projects already supported, aim to support additional projects going forward

Project timelines: 5 to 7 years

Location

Countries: Comoros, Kenya, Madagascar, Mozambique, Tanzania, Seychelles

Project structure

Owner

Great Blue Wall initiative

Impact



Mitigation
(nature-based sequestration)



Adaptation &
resilience

BNCFF will increase the supply of investment-ready blue natural capital projects, driving climate adaptation and nature-based sequestration in coastal and marine environments, as well as preserving functioning ecosystems and create estimated 5,000 blue jobs, at a proxy 10 jobs per ocean venture

500

Ocean ventures by 2030

Financing

\$120m

Total project
cost(Grant)

\$5m

Investment
secured

Investment secured: Ocean Hub Africa providing direct funding to projects, and incubation support for supported initiatives, however no funding has been raised for the GBW. Additional commercial funding will be invested into incubated/accelerated ventures

Project source: GBW

To be put in touch with the relevant project owner(s), please reach out to the High-Level Champions Finance Team at hlcfinanceprojects@climatechampions.team and UNECA at deka.moussaragueh@un.org

Congo River Basin solid river waste treatment

Blue Economy



Key info



Blue economy



Infra asset
(greenfield)

Project overview

Sorting, treatment, transformation, and recycling plant on a 100ha site in Brazzaville, intended to clean solid waste, such as plastic bags, out of the Congo river. The facility will include a fleet of 45 garbage trucks, and will commercialize the recycled waste as glass powder, granules of plastic, iron plates, fuel, green manure, etc.

Timelines

Project stage: Feasibility assessment

Project timelines: Within 5 years

Location

Country: Congo

Project structure

Available on request

Impact



Adaptation
& resilience

The plant will contribute towards the preservation of the urban water in the waterways of the Congo Basin and Atlantic Ocean, while also creating 2.2k jobs, directly and indirectly

Financing



Total project
cost

Project source: CBCC

To be put in touch with the relevant project owner(s), please reach out to the High-Level Champions Finance Team at hlcfinanceprojects@climatechampions.team and UNECA at deka.moussaragueh@un.org



Key info



Blue Economy



Fund

Project overview

This project aims to drive the creation and development of conservation enterprises in coastal and marine areas that will deliver socioeconomic and conservation outcomes. The Regenerative Blue Entrepreneurship Accelerator will focus on business models that have the potential to implement and scale-up nature-based solutions and other business solutions that have the potential to (i) regenerate coastal and ocean health and (ii) become a driver of socioeconomic development of local communities

Timelines

Current project stage: Operational

Conceptual design period: 2020

Feasibility assessment period: 2021

Structuring/ financing period: 2021

Construction/ development period: 2022

Operating period: 2022-2030

Region

Countries: East Africa

Project structure

Developer

IUCN, OHA, TNS, BFA
Global and WEF

Project sponsor

Germany, Ireland, Sweden and
FSD Africa

Impact



Mitigation (avoidance) 500 ocean ventures will create at least 5000 direct, blue jobs

SDGs: 1, 2, 5, 6, 8,
11, 12, 13, 14

5000
blue jobs created

Financing

\$20m

Total project
cost

Investment secured: \$2M

\$18m

Funds required

Use of funds: Venture building, incubation
and acceleration programmes

Financing instrument: Grant



Key info



Transport



Enterprise

Current revenue

\$2m (2022)

Current production

1000 (2022)

Target revenue

\$55m (2024)

Project overview

Ampersand's mission: To put electric vehicles that cost less to buy and less to operate on the road, creating a major carbon impact. Founded in 2016, in 2019 we started a pilot of 20 bikes and 3 battery swap stations in Kigali, Rwanda. Following a Series A raise of \$4M in early 2021 we now have over 600 bikes on the road and 11 swap stations in Kigali, and 3 swap stations in Nairobi (new expansion pilot). Plans to expand to secondary cities and rural areas in Kenya and Rwanda. Plans to expand to Tanzania, Uganda in 2024

Timelines

Operations started: 2019

Series A: 2021

Break-even: Q4 2023

Location

HQ, R&D and Factory: Rwanda (160 FTE)

Sales and service: Kenya (25 FTE)

R&D satellite: Berlin (4 FTE)

Holding company: USA (1 FTE)

Project structure

Investors

Shell Foundation, USAID, FONERWA, DFID

Latest milestone

Operational

Impact



Mitigation

Impact:

- 750,000 vehicles on the road by 2031
- 2,5 tons of CO2 avoided per vehicle per year
- 35% increase in driver take home pay vs ICE motor (due to less energy and maintenance costs)

TAM

- 6m boda drivers in east Africa, 30m+ in SSA (2031)

1000 units

sold in 2022

6000 units

to be sold in 2023

15,000 jobs

by 2031 (95% East Africans)

1.5-2.5m tonnes CO2e

avoided by 2031

Financing



Financing required

Use of funds: Growth

Type of financing required:

- Series B Equity
- Debt

Debt/equity ratio: 1.5 / 1

Of which public capital: \$1.8m



Key info



Transport



Enterprise

Current revenue

n/a

Target fleet

1000 busses (2025)

Project overview

BasiGo is proving a scalable financing model for electrifying the bus transport in East Africa. Buses are the most common mode of transportation in Africa and the largest source of toxic air pollution choking Africa's cities. Meanwhile, over 90% of Kenya's electricity already comes from renewable energy. BasiGo's Pay-As-You-Drive battery financing model makes the upfront cost of a modern electric bus the same as a diesel bus while also offering a 25% operational cost savings.

Timelines

Latest milestone: Feasibility assessment

Conceptual design period: 2021

Structuring assessment period: 2023

Construction/ development period: 2023

Operating period: 2024 onwards

Location

Country: Kenya

Impact



Mitigation

Impact:

- Air pollution from diesel buses will be eliminated
- Energy for public transport will transition from imported diesel to domestically produced renewable electricity
- Excess off-peak electricity from the grid will be consumed for charging, improving business viability of the national utility

SDG: 11

50 tonnes CO2

mitigated per bus
per year

300 jobs

created in Kenya

2m people

impacted

Project structure

Current investors

Novastar Ventures, Moxxie Ventures, Trucks.vc, Keiki Capital, My Climate Journey VC, Climate Capital, Third Derivative Accelerator, Nimble Capital

Financing

\$5m

Total project
cost

\$11m

Type of funds required: venture
debt

Target gearing: 33/67 debt equity

Time frame for financing: [xxx]

Min. ticket size: \$1m

Public capital invested: \$100k philanthropic



Key info



Transport
(electric)



Infra asset
(greenfield)

Project overview

Egypt plans to upgrade its transport services by building electric light rail transit (LRT) along 2 routes (Adly Mansour-New Administrative Capital and Port Saeed West-Abu Qir) to provide efficient, safe, and affordable transportation for passengers and freight across the country while reducing carbon emissions

Timelines

Project stage: Feasibility

Project timelines: Expected to be completed by 2025

Location

Country: Egypt

Project structure

Owner

Ministry of
Transport, Egypt

Impact



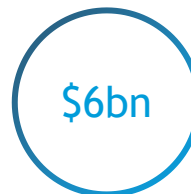
Mitigation
(avoidance)

Using electric LRT will reduce GHG emissions by 207,500t CO₂e/yr and save \$23M/yr. Reduced use of buses for transport will also reduce particulates (PM_{2.5}) by 340ton/yr and sulfur oxide (SO_x) emissions by 770ton/yr, helping Egypt meet its SDG31 targets of improved air quality

SDG: 3

207,500t CO₂e/yr
GHG reduction

Financing



Total project
cost

Investment secured: Govt. commitments (\$2.2Bn), foreign funds (\$3.6Bn), and development partners (\$240mn)



Key info



Transport



Enterprise/
venture

Enterprise overview

MAX is committed to electrifying the 2, 3 and 4 wheeled vehicle market in Africa. MAX will utilize its vehicle subscription platform to introduce electric motorcycles, tricycles and buses along with accompanying charging infrastructure and power utilization

Timelines

Current business stage: Growth

Seed (pre-revenue) period: 2015-2019

Location

MAX Headquarters: Nigeria

Countries impacted: Cameroon, Egypt, Ghana, Nigeria, Rwanda and Uganda

Project structure

Latest funding:
Series C

Sponsors:

Lightrock Capital, Global Ventures, Novastar Ventures, Capria, Shell Foundation, Yamaha, Goodwell Investments

Risk mitigants:

Hedged against credit risks

Impact



Mitigation (avoidance) 19,200 tonnes of CO2 will be avoided per annum for every 1,000 EVs. With this funding MAX will deploy a minimum of 2,000 EVs totalling 38,400 tonnes per annum.

15M

drivers across Africa

19,200t CO2e

For every 1,000 electric vehicles deployed

Financing

\$8m

Total project cost

Investment secured: \$70M

Use of funds: MAX needs to align financing for 2-, 3- and 4-wheel EV, batteries and charging infrastructure as well as access to energy source to reach the milestone

Financing instrument: Electric mobility and infrastructure grants, Regional and institutional funding and venture capital



Key info



Water



Infra asset
(greenfield)

Project overview

Development of a dam and water storage reservoir in the Lesotho Lowlands, and a 712km bulk water conveyance system through South Africa to Botswana. The project aims to ensure supply of water to the three countries, under the Integrated Water Resources Management Plan of the Orange-Senqu River Basin

Timelines

Project stage: Pre-Feasibility

Project timelines: MoU established in 2013 for desktop study framework. Pre-feasibility study started in 2018 with expected completion in 2021

Region

Countries: Lesotho, South Africa, Botswana

Project structure

Owner: Governments of Lesotho, Botswana and South Africa

Impact



Adaptation &
resilience

The Lesotho-Botswana water transfer project will help address the major short, medium and long-term problem of water security in the region, which is set to be exacerbated by climate change

150Mm³/yr

Pumped to Botswana

Financing

\$2.7bn

Total project cost

\$500m

Investment required

Investment secured

- NEPAD-IPPF: \$1.5bn
- Grant financing: \$0.4bn
- Counterpart contribution: \$0.3bn.

Project preparation cost

- Total: \$6.2m
- Secured: \$5.9m (NEPAD IPPF, SIWI, CRIDF, GWP-SA & ORASECOM)



UN CLIMATE CHANGE HIGH-LEVEL CHAMPIONS

