Overview of AfDB's Energy Initiatives

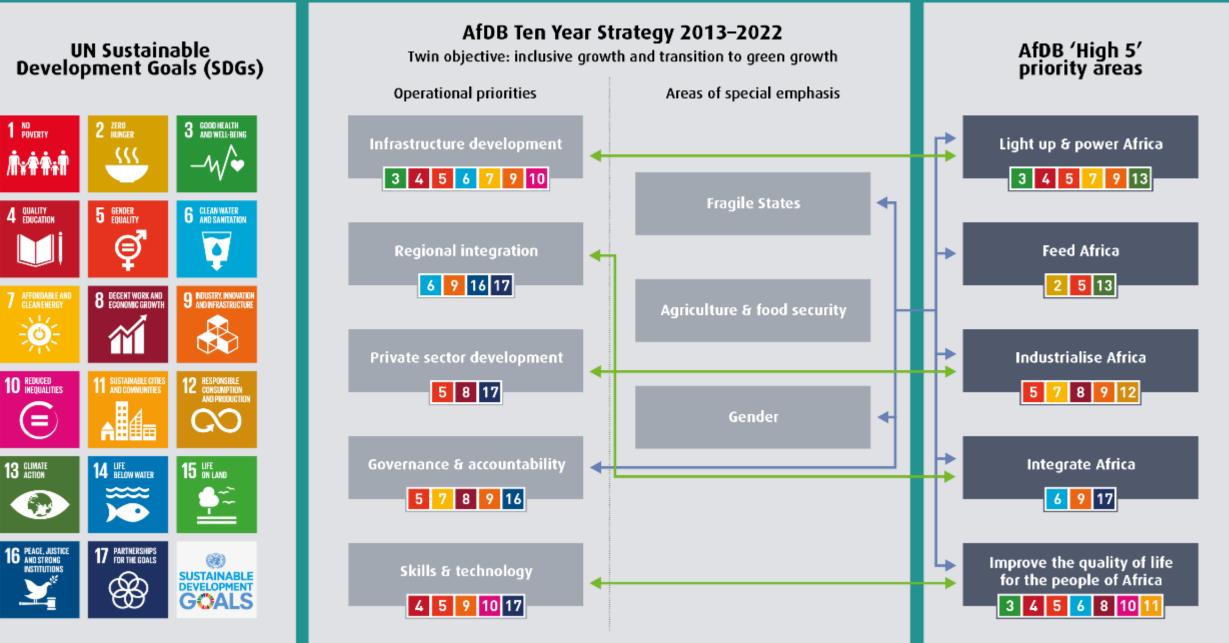
Meeting With Energy And Health Business Councils Of Foreign Economic Relations Board (DEIK)

16th November 2023



GROUPE DE LA BANQUE AFRICAINE

AfDB: At the Center of Africa's Transformation



The Mandate of The Power, Energy, Climate Change and Green Growth Complex is to implement the New Deal on Energy for Africa and deliver on the Bank's Climate/Green Growth Strategic objectives (SO/NSO)

KEY REPONSIBILITIES



Originating, designing & implementing energy projects



Driving policy dialogue in the climate/energy space



Serving the entire Bank on Climate Change and Green Growth issues



Developing, implementing & driving innovative initiatives



Mobilizing climate finance at scale

TWO GOALS

Delivering on the first High 5 priority area "Light-Up and Power Africa" and meeting targets under the Bank's Strategy for the New Deal on Energy for Africa

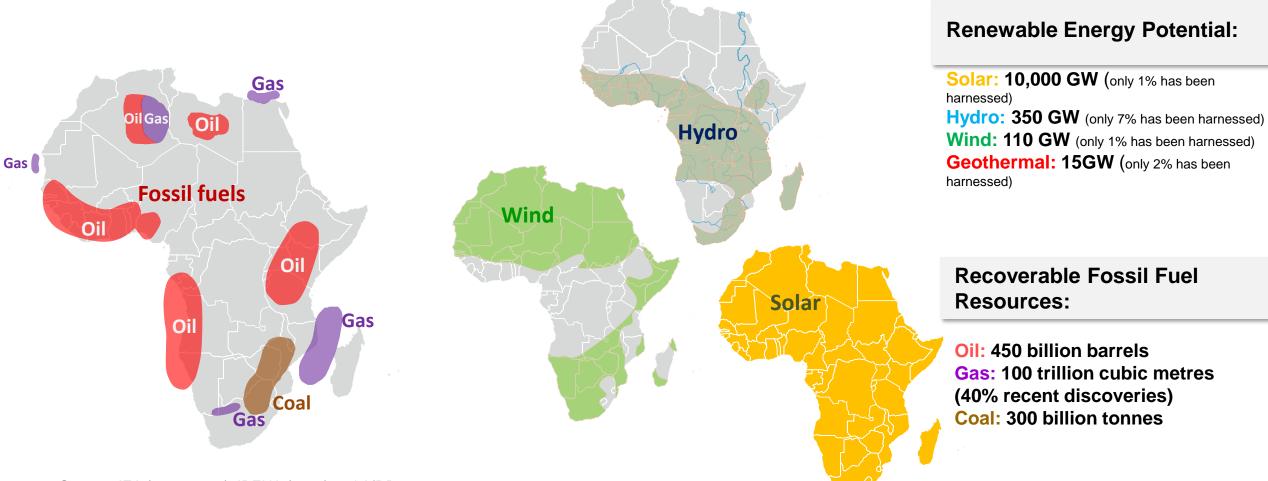
+160 GW of new grid capacity +130 million +75 million new new off-grid connections to connections the grid +130 million households with access to clean cooking Delivering the Bank's strategy on transitioning to green growth while mobilizing climate finance at scale for all sectors in line with the Climate Change Action Plan

Increase climate finance share of all Bank investments to 40% Mobilize a cumulative total of US\$25 billion of climate finance between 2020 and 2025

Achieve a 50/50 allocation between adaptation and mitigation finance

Context of Priorities

Africa is rich in energy resources ...



Source: IEA (2014, 2019), IRENA (2014) and AfDB

Context of Priorities

...but poor in terms of energy access and supply



Africa accounts for only 6% of global energy demand and little more than 3% of electricity demand.

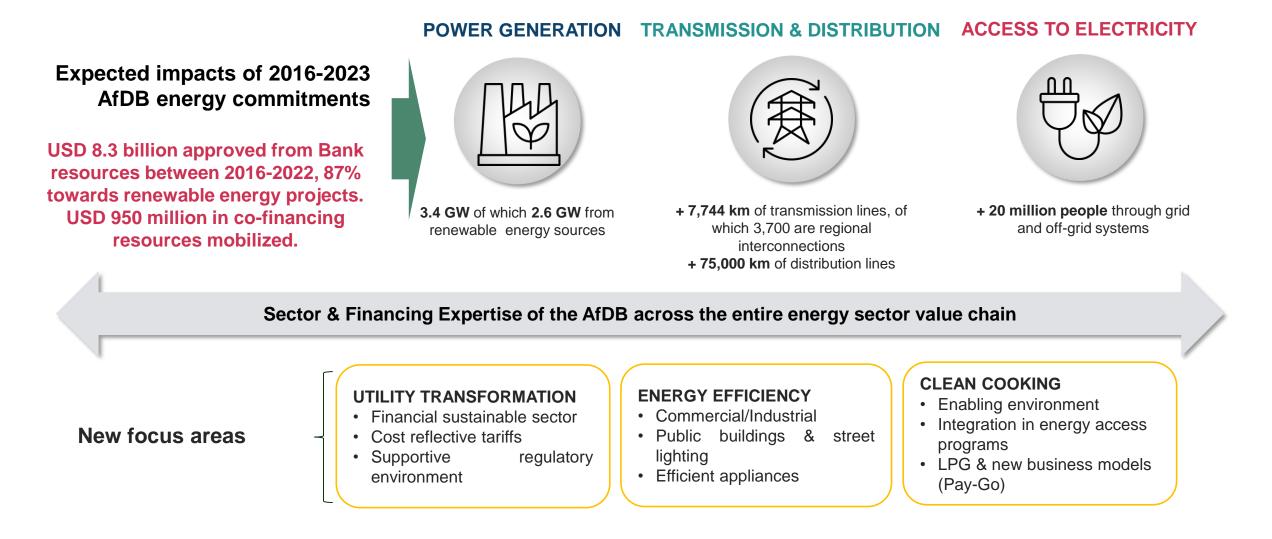
Africa's share of historical emissions < 3%

solutions.

access to electricity.

Bank Group's Operation

NDEA predicated on understanding that Africa's economic transformation, and the realisation of development ambitions in various sectors, depends on reliable and affordable energy access



The Bank's operations contributing to Africa's energy transition

Morocco: 510MW Noor Ouarzazate | World's Largest CSP Plant Kenya: 310 MW Lake Turkana Wind Power - Africa's largest wind farm



Kenya: MENEGAI Geothermal Energy Development Tanzania: JUMEME Award-winning Mini-grid

rura





Synergizing Africa's Energy Agenda with Turkey's Investment interest

Opportunities

Growth in electricity access in recent years....and the Bank will continue to support Africa's low carbon trajectory



Electricity access rates increased from 44% to 56% between 2010 and 2020— but gains concentrated in a few countries. Africa requires USD 100 billion annually to meet demand and SDGs between 2020 and 2040



Access rates have increased mainly based on grid connections — 75% of the of the world's rural population are without access to electricity, therefore **decentralised energy systems will continue to gain traction** given the imperative to reach distant communities and the high cost of extending the grid.

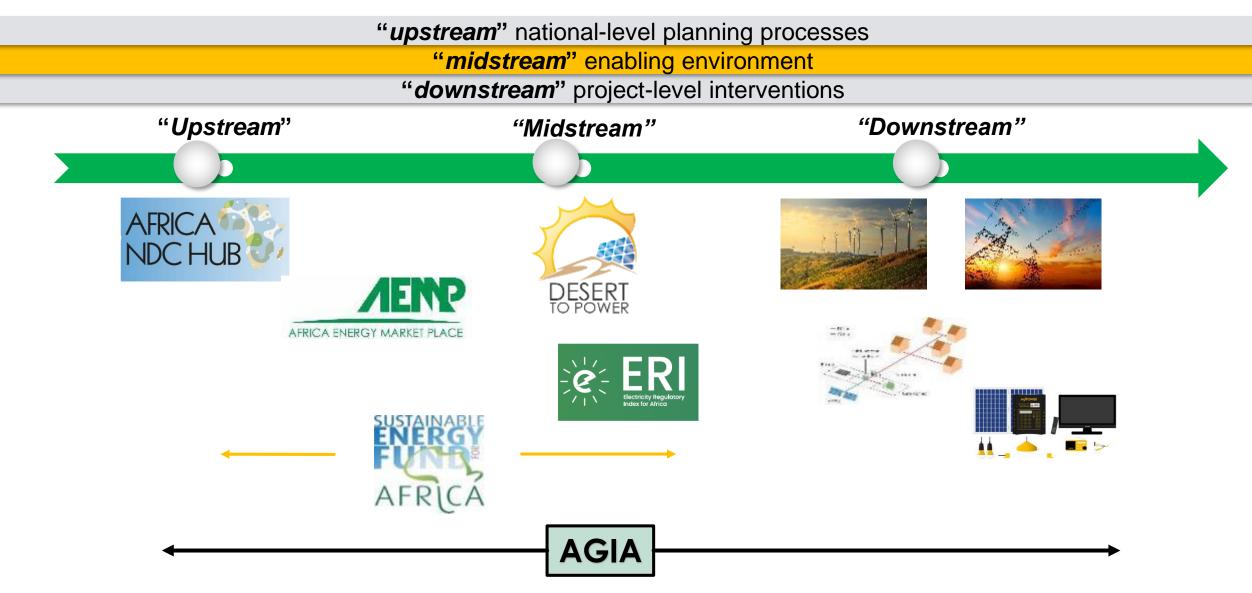


The Bank will continue to extend and strengthen national and regional grids — To build strong regional power markets in a bid to accelerating universal energy access and fostering regional integration in Africa. The Bank has a strong collaboration with the powerpools (SAPP, WAPP, EAPP, CAPP, COMELEC)



The Bank will support countries through all phases of their energy transition efforts

In order to accelerate the transition, the Bank will support:



Sustainable Energy Fund for Africa (SEFA)

SCOPE. Catalytic financial instruments to unlock private sector investment in renewable energy, from technical assistance to project finance.

- Capital Total capitalisation (paid-in and pledges) of US\$463 million from 10 donors.
- Deployment SEFA 1.0 First cycle spanned an 8-year (2012-2019) and funded 71 projects in 30 countries for a total of US\$84 million.
- Deployment SEFA 2.0 Second cycle initiated in 2020 and approved to date US\$128 million for 21 projects, including seven catalytic investments.

Three thematic areas

Green baseload

to increase the penetration of renewable energy in power systems, focusing on power systems stability and alternatives to fossil-fuel baseload generation options (e.g Gabon Kinguele Hydro project)

Green mini-grids for underserved populations in rural areas

Energy efficiency

focus on optimising generation capacity and reducing energy intensity

Different instruments

Technical assistance

Reimbursable grants for project preparation, and grants for activities that will directly unlock investments

Concessional investment

Investment grants including results-based financing mechanism; **Junior equity** in intermediated structures; **Concessional debt** in project finance structures.

Eligibility

Private sector*

Proven track-record, some pre-feasibility work carried out, evidence of Government's endorsement, equity available or evidence of interest, project in countries with limited/no experience in RE, etc (TA and CI)

Public sector

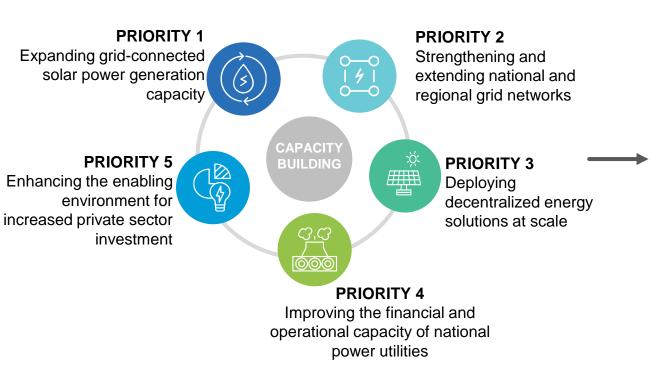
Regional member countries, energy sector agencies, parastatals and regional bodies (only technical assistance).

Overview of the Desert to Power Initiative



Build 10GW of new solar generation capacity to provide electricity access for up to 250 million people

Key priorities



Implemented across 11 countries: Burkina Faso, Chad, Djibouti, Eritrea, Ethiopia, Mali, Mauritania, Niger, Nigeria, Senegal, Sudan

First Phase prioritized G5 Sahel - Burkina Faso, Chad, Mali, Mauritania and Niger. Similar investments and opportunities will be identified in the remaining Sahel countries.

Expected results and impact

in



Accelerate economic development

innovation

agriculture





Strengthen power interconnections



Provide lowemission electricity access



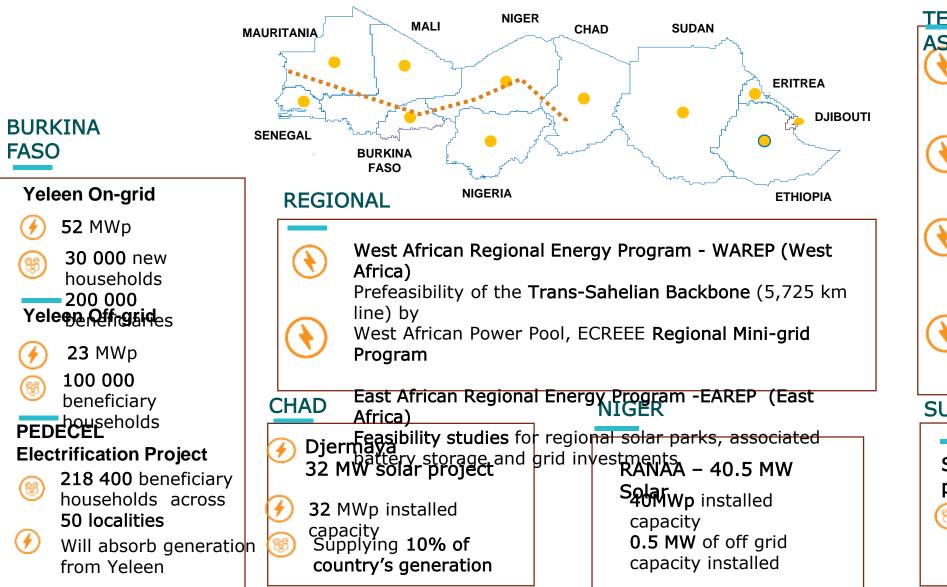
Expand opportunities for manufacturing



Promote financial inclusion for women & vouth

Implementation progress since the roll-out of DtP





TECHNICAL

ASSISTANCE SEFA DtP Technical Assistance (TA) program for: Burkina Faso, Chad, Mali, Mauritania and Niger Facility TA to Chad, Mali, and Niger

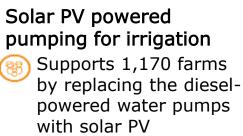


Mali Technical Assistance of under the Scaling-up Renewable Energy Program (SREP)



SEFA project preparation support for Nigeria Jigawa Solar Program

SUDAN



Opportunities for Turkish Investors (discussion)

□ Support to Africa's Just Energy Transition

PPPs in Transmission Lines

Development of Power Interconnectors

□ Battery Energy Storage systems

Commercial and Industrial Clients (C&I)

□Clean Cooking using natural gas

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AFRICAN DEVELOPMENT BANK GROUP GROUPE DE LA BANQUE AFRICAINE DE DÉVELOPPEMENT