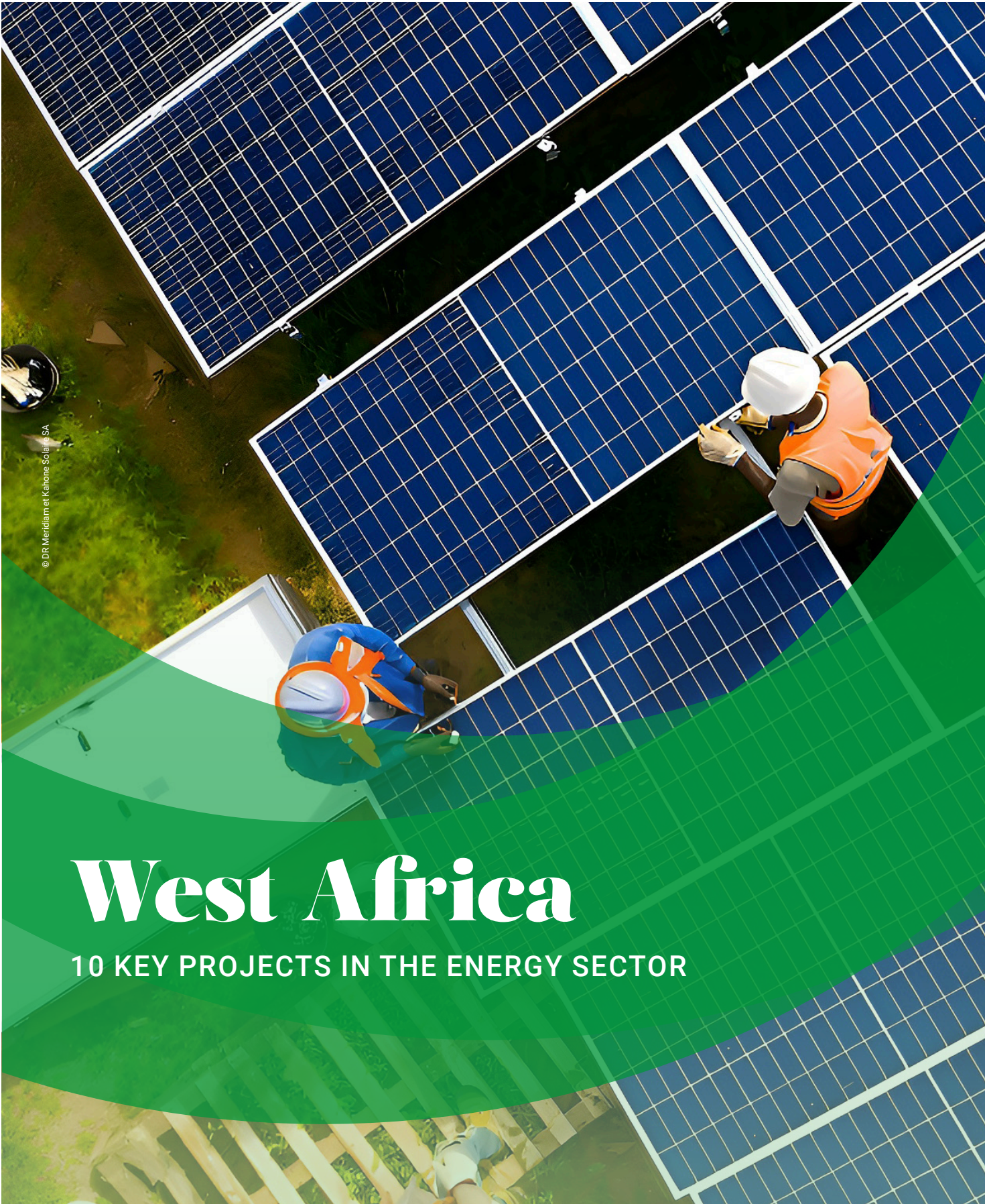




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West Africa

10 KEY PROJECTS IN THE ENERGY SECTOR

#WorldInCommon

ACCELERATING THE ENERGY TRANSITION IN WEST AFRICA

Studies show that around 43% of the population of Africa, or 600 million people, do not have access to electricity. In West Africa, this figure stands at 46%. Access to energy is a major challenge in this region, which is facing significant population growth, as well as urbanization and industrialization that are causing demand to skyrocket, estimated at +8.9% per year between now and 2040. This situation is hampering human, economic and social development, despite the region's considerable potential in renewable energy.

In response to this challenge, AFD Group is supporting African countries and the private sector to accelerate the energy transition and meet three imperatives :

environmental (reducing CO2 emissions), economic (creating local value) and social (ensuring universal access to affordable energy).

As there are many different circumstances in West Africa, this brochure highlights the diverse range of solutions implemented by AFD Group to accelerate access to clean and sustainable energy. Discover ten key projects that illustrate the energy transition, from Senegal to Nigeria, including solar power plants, biomass power plants, hydroelectric dams, modernization of grids, and mini-grid programs.

A REGION AT THE HEART OF AFD GROUP'S STRATEGY

In order to meet the needs of communities while supporting countries' low-carbon transition, AFD Group's strategy centers on three priorities :



Decarbonized energy supply

Accelerating the development of renewable energies, modernizing electricity grids, and supporting innovation in storage and smart management.

For example, the AFD/GEAPP partnership signed in Togo symbolizes our commitment to accelerating the decarbonization of West African electricity systems through innovative solutions for storing and integrating renewable energy.



Access to energy services for all

Deploying appropriate solutions, including grids, mini-grids, and off-grid solar systems, and supporting public policies for sustainable electricity supply.

To this end, AFD and France have committed to supporting the Mission 300 initiative, providing €1 billion to accelerate access to electricity for 300 million people in Africa by 2030.



Management of demand and energy efficiency

Encouraging energy efficiency, modernizing productive sectors, and promoting low-carbon mobility. Energy efficiency is a pillar of competitiveness and resilience.

OUR LEVERS FOR ACTION

AFD Group draws on three complementary levers in putting its strategy into practice. It supports public policies to assist governments in planning and diversifying their energy mix towards renewable sources. It strengthens the capacities of stakeholders, including operators, institutions, and training centers, in order to create sustainable conditions for a successful energy transition. It also supports innovation and knowledge production by promoting technologies, financial tools and pilot projects that accelerate the emergence of low-carbon, inclusive solutions tailored to local contexts.

This integrated approach makes AFD Group a key player in the transition to a fair and sustainable energy sector in West Africa.

Defissol solar power plant

The Defissol project, supported by AFD, the European Union, and the Société Béninoise d'Énergie Électrique (SBEE - Beninese Electric Power Company), represents a major step forward in Benin's energy transition. In Illouloufin, in the south-east of the country, an initial 25 MWp solar power plant comprising more than 47,000 photovoltaic panels now supplies the national grid. This initiative saves 23,000 tons of CO2 emissions each year and represents an investment of €60.85 million. It improves access to clean energy, supports local employment, and helps protect the environment as part of the PREVER I program to promote Benin's green economy (Promouvoir l'Économie Verte au Bénin).



Key Figure : Providing access to clean and sustainable electricity for over 180,000 people



Construction firm : Eiffage Energie Systèmes



Location : Bénin



Kael and Kahone solar power plants

The Kael and Kahone solar power plants were built under the World Bank Group's Scaling Solar program in partnership with the Senegalese government and Proparco, and illustrate Senegal's commitment to accessible and sustainable energy. With a total capacity of 80 MWp, these plants offer among the most competitive solar electricity rates in West Africa and generated more than 330 local jobs during their construction. They also contribute to the fight against climate change, saving nearly 89,000 tons of CO2 annually, while strengthening the country's energy security.



Key Figure : Providing access to clean and sustainable energy for more than 600,000 people



Consortium : ENGIE, Meridiam, FONSI



Location : Senegal

Rehabilitation of the Buyo hydroelectric dam

The rehabilitation project for the Buyo hydroelectric power plant, backed by the Republic of Côte d'Ivoire with €18 million in funding from AFD, seeks to modernize a key piece of infrastructure in the national electricity system (165 MW). It boosts renewable energy production by 55 MW and contributes to the national target of 42% of electricity from renewable sources by 2030.



Key Figure : Providing access to sustainable energy for 1,100,000 people



Construction firm : CI Energies, GE hydro France (formerly Alstom Hydro)



Location : Côte d'Ivoire

Rehabilitation of the Kpong dam



The rehabilitation project for the Kpong hydroelectric dam involves upgrading a strategic 160 MW facility that provides over 5% of Ghana's annual electricity production. By improving turbine performance, it will extend the facility's lifespan by around 30 years and enhance the security of renewable energy supply. With €78 million in funding, the project improves the availability and competitiveness of electricity in Ghana. It has created around 100 local jobs and enabled the installation of 30,000 prepaid meters, reducing operating costs and improving grid management.



Key Figure : 400,000 tons of CO2 saved each year



Partnerships : European Union, Republic of Ghana



Location : Ghana

Rehabilitation and extension of the Conakry power grid



This project, funded by AFD and the European Union, aims to improve the coverage and reliability of the power distribution grid in Conakry. It involves rehabilitating existing grids in areas that already have electricity, as well as installing and modernizing 996 km of transmission lines. More than 60,000 new connections provide households with access to more reliable and affordable electricity. This initiative improves service quality, reduces network losses and supports the country's energy transition. It is part of the national strategy to achieve universal access to electricity in Guinea by 2030.



Key Figure : Providing access to sustainable electricity services for over 362,000 people.



Construction firm : INEO (Bouygues Group)



Location : Guinea

Supporting the electricity sector and strengthening electricity supply in Abuja



The Abuja Feeding Scheme project, financed by AFD to the tune of €130 million, aims to strengthen and secure the supply of electricity to the Nigerian capital. It involves the construction of two new 330 kV sub-stations, three 132 kV sub-stations and the creation of a 280 km high-voltage power line connected to the national grid. The project will improve the continuity and reliability of energy supply and modernize the infrastructure of the network operator TCN. This is a key project in the partnership between France and Nigeria, and will directly contribute to the reliability and sustainability of the national power grid.



Key Figure : Providing a greatly improved electricity service to 1,000,000 people



Construction firm : GE Grid Solutions (formerly Alstom)



Location : Nigeria

Lomé power grid extension project

The Lomé power grid extension project (PEREL), financed by AFD and KfW with support from the European Union, aims to improve access to reliable and affordable electricity in the capital of Togo and the surrounding area. In addition to rehabilitating and extending the power grid in Lomé, it also provides for the construction of the Lomé grid control and command center. With a total budget of around €40 million, this project will strengthen the grid's capacity, reduce technical losses, and support sustainable urban electricity supply in Togo.



Key Figure : Providing access to sustainable electricity services for over 100,000 people



Construction firm : ACTIA Group



Location : Togo



© Photo projet : Extension du réseau électrique de Lomé

Program to strengthen and upgrade Senegal's power grid

This program, funded by AFD, aims to upgrade Senegal's power grids to facilitate the integration of renewable energy and improve electricity supply throughout the country. It involves the construction and rehabilitation of 160 km of medium-voltage (backbone) lines, the integration of 305 MW of renewable energy capacity, and the installation of 56 MW of energy storage. The project also provides for a dispatch center to manage the electricity transmission and distribution networks, as well as a remote management system for renewable power plants, which will make the network "smarter" and more responsive. These improvements will make it possible to better manage the intermittent nature of renewable energy, stabilize the grid, and strengthen sustainable access to energy, particularly in rural areas.



Key Figure : 160 km of medium-voltage power lines, integration of 305 MW of renewable energy capacity



Construction firms and suppliers : GE Vernova, Eiffage Energie Systèmes, LSE, Cegelec and Schneider



Location : Senegall

National electricity supply program and rural mini-grids in Guinea

This project is co-financed by AFD and the World Bank, and supports the national electricity supply program to improve access to energy in Guinea. It combines the rehabilitation and extension of the power grid around Conakry with the deployment of hybrid solar mini-grids in two large isolated rural areas: Kalenko and Siguirini. This part of the project, dedicated to the deployment of mini-grids, is implemented under a public-private partnership and will provide access to electricity for

24,000 people. This landmark AFD project is making a real difference in improving the quality of the electricity service and accelerating the country's energy transition.



Key Figure : More than 700,000 people will benefit from secure, sustainable access to electricity



Partners : Agence Guinéenne d'Electrification Rurale, World Bank, SGG (JV Orange - IPT)



Location : Guinea

BIOVEA biomass power plant



Key figure : Over 1.2 million people benefit from an improved electricity service



Partners : EDF International – Biokala (SIFCA / Meridiam)



Location : Côte d'Ivoire

The BIOVEA project, located near Aboisso in south-eastern Côte d'Ivoire, is a first in West Africa, involving the construction of a 46 MW biomass power plant fueled by 450,000 tons of agricultural waste from oil palm plantations. The project was developed by EDF International and Biokala, a joint venture between SIFCA and Meridiam, and recycles agricultural waste to produce local, continuous renewable energy. This innovation, financed by Proparco, will provide more than 1.2 million people with a more reliable and sustainable electricity service, while cutting CO2 emissions by 171,000 tons per year and supporting more than 46,700 direct and indirect jobs in the agricultural and logistics sectors.




For a world in common

AFD Group finances, supports and accelerates the transition to a fairer and more sustainable world. AFD Group contributes to implementing France's policy for sustainable development and international solidarity. In association with our partners, we build shared solutions with and for the populations of more than 160 countries, in addition to 11 French Overseas Territories and Departments.

Our goal is to reconcile economic growth and the safeguarding of common goods, such as climate, biodiversity, gender equality, education and health. Our teams are actively engaged in over 3,600 projects in the field, thus contributing to the commitment of France and the French people to the Sustainable Development Goals (SDG). For a world in common.

AGENCE FRANÇAISE DE DÉVELOPPEMENT
IN WEST AFRICA



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