

## Project Description and Budget

To support the implementation of the ECOWAS Master Plan for the Development of Regional Power Generation and Transmission Infrastructure 2019-2033 which was adopted by the ECOWAS Authority of Heads of State and Government in December 2018, through Supplementary Act A/SA.4/12/18, the World Bank provided a grant to the WAPP Secretariat under a technical assistance known as "Solar Development in Sub-Saharan Africa, Project #1 Technical Assistance to WAPP", for the preparation of regional solar power generation projects and technical study activities to facilitate the integration of Renewable Energy into the regional electricity system.

This assistance is intended to support the establishment of an enabling environment capable of accelerating the deployment of large-scale solar power plants within the WAPP region, through the identification of technical bottlenecks, the preparation of Regional Solar Parks and the sharing of knowledge among countries in the region. It is expected that the grant will be used to identify and prepare regional investments in solar power generation, infrastructure, distribution and storage, as well as support for capacity building with special emphasis on planning, regulation and technical knowledge of resource evaluation and validation. The assistance therefore provides for specific actions aimed at combating gender gaps and improving the empowerment of women or men through training and certification in Renewable Variable Energy for WAPP staff members, of which at least 15% are women.

The budget of the components of the project is as follows:

#	Activities	Budget (US\$m)
<b>1</b>	<b>Component 1: Regional Solar Integration, Dispatch and Capacity Building</b>	<b>8.0</b>
1.1	Operationalization of RE monitoring system for ICC (equipment, hardware, licenses, forecasting services, etc.)	1.5
1.2	Establishment of a Renewable Energy Task Force and capacity building	2.0
1.3	Development of a Regional Grid Code	1.0
1.4	Capacity building activities on grid integration and dispatch in partnership with CIGRE	2.0
1.5	Reinforcement of WAPP staff (financing key staff and consultants) to support the design and implementation of SOP #1	1.5
<b>2</b>	<b>Component 2: Regional Solar Parks Preparation</b>	<b>13.0</b>
2.1	Development of grid stability studies	2.0
2.2	Development of pre-feasibility and feasibility studies of Regional Solar Parks and their associated infrastructure	3.0
2.3	Development of safeguards instruments for Regional Solar Parks and their associated infrastructure, and network reinforcements	2.0
2.4	Transaction Advisory services for the development of Solar Auctions	3.0
2.5	Solar resource ground measurement campaign (28-30 sites)	3.0
	<b>TOTAL</b>	<b>21.0</b>

**Solar Development in Sub-Saharan Africa - Phase 1 (Sahel) (P162580)**

**Expected Disbursements (in US\$, Millions)**

Fiscal Year	2018	2019	2020	2021	2022	2023	2024
Annual	0.00	0.50	2.00	6.00	7.00	5.50	0.00
Cumulative	0.00	0.50	2.50	8.50	15.50	21.00	21.00