



## Delivering results in the Decade of Sustainable Energy for All

# The EU's Technical Assistance Facility (TAF) for the Sustainable Energy for All initiative

Reliable access to energy is essential for growth and job creation, for better public services, such as better education and health facilities and for productive agriculture. Energy is an essential element of the fight against poverty and is acknowledged as the 7th target of the sustainable development goals. The EU encourages the adaptation of energy policies in partner countries through comprehensive sector reforms and suitable regulatory frameworks aiming at increased access to energy services, promotion of renewable energy and greenhouse gas reduction. Creating an enabling environment for private investments is a crucial step towards reaching the energy access and renewable energy goals defined at country, regional and global levels.

These are the reasons why the EU has launched a **Technical Assistance Facility (TAF)**, to assist partner countries in fine-tuning their energy policies and regulatory framework that allow for increased investments in the energy sector. It supports countries which are committed to reaching the Sustainable Energy for All (**SE4ALL**) objectives, in particular those who selected energy not only as one of the priority areas of their national policy agenda but also as a focal sector in their bilateral cooperation with the EU for the period of 2014-2020.

The TAF purpose is to deliver high level technical assistance at country and regional level through expert missions mobilised at short notice and to support committed countries in significantly scaling-up investments in the energy sector.

In this direction and since December 2013, three EU TAF contracts have been signed. The first covers West and Central Africa, the second - Eastern and Southern Africa and the third - Asia (including Central Asia), Neighbourhood, Latin America, Caribbean and Pacific.

## Main objectives

Since its launch, the TAF has been working to fulfil its main objectives, namely to:

- Increase the partner countries' administrative and technical capacity for sector policy analysis, its devel-

opment and implementation,

- Accelerate and implement positively, efficiently and effectively sector reform policies on access to sustainable energy, energy efficiency and energy supplies, and
- Facilitate the implementation of the investment projects needed to meet the overall SE4All objective of making modern energy services accessible to all.

## Main activities of the TAF

Through targeted expert missions to the partner countries, five types of technical assistance packages are delivered:

- **Policy and reforms:** Following a comprehensive review of the institutional set-up in each country, the TAF assists the national stakeholders in defining a coherent way forward as regards the required national action plans, legislation and regulations and in creating enabling policies and regulatory frameworks as tools for advancing toward SE4ALL targets.
- **Capacity building:** The TAF focuses also on capacity building, as a prerequisite for a sustainable implementation of such policies and regulations, and a necessary step in the development of knowledge and skills on the use of Renewable Energy and Energy Efficient technologies in each country.
- **Investment projects planning support:** Towards the effective development of the energy sector,

this assistance package is taking a crucial role. The TAF supports the countries in prioritising and preparing their infrastructure projects especially in ensuring the projects' relevance and overall coherence with the national policies.

- **Mobilising funds and partnerships:** The leveraging of funds and their innovative use are key to revealing the existing energy potential in Africa. Funds from a diversity of sources, development banks, local and international private sector, public sources, are brought together with the support of the TAF to help bring selected sustainable energy projects to completion.

- **Industrial and technology cooperation:** Finally, in order to ensure a coherent and effective know-how exchange between the stakeholders, the TAF supports the establishment of regional networks gathering local and international professionals, at regional as well as country level, across the various technologies and sectors.

## Method of work :

The in-country missions are supported by full time key experts on the three contracts who provide guidance and support. The DEVCO C6 unit in charge of sustainable energy and climate change together with the EU Delegations are managing the contracts and following closely all activities.

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## Technical Assistance Facility Country Missions<sup>1</sup>



### Algeria

- Stocktaking to identify fields of cooperation in the energy sector (*completed*)



### Benin

- Stocktaking of the energy sector (*completed*)
- Institutional capacity strengthening in the Ministry of Energy (*completed*)
- Regulatory mission to ARE (regulation authority) (*completed*)
- Technical assistance for the implementation of the national energy information system (SINEB)



### Burkina Faso

- Development of the country's SE4ALL action agenda and investment prospectus (*completed*)
- Support to the Zagatouli solar power plant
- Assistance in setting up technical and economic conditions to support the development of the photovoltaic sector connected to the network in Burkina Faso



### Burundi

- Master plan for the sustainable management of fire wood sector (*upcoming*)
- Support for the establishment on decentralized (off-grid) rural electrification master plan (*upcoming*)

- Identification of partners for the implementation of the emergency action "Supporting the resilience of populations in Burundi" in its energy sector (*ongoing*)



### Cameroun

- Stocktaking of the energy sector
- Development of a manual of procedures for the decentralized generation of green electricity connected to the interconnected power grids
- Assistance for the development of a manual of procedures for the implementation of rural electrification projects connected to the national network

1. For the period: January 2014 to February 2017



## Cape Verde

- Stocktaking of the energy sector
- Desk study and preparation of bankable pumping storage project for energy produced by wind
- Detailed financial feasibility analysis and operational and cash flow simulation of a 20 MW pumping storage hydropower project in the island of Santiago in view of a possible PPP (*ongoing*)
- Energy master plan in 9 islands (*upcoming*)



## Caribbean

- Presentation on EU support on sustainable energy at the EC Regional Water and Energy Workshop, Barbados, May 2015
- Presentations on EU technical know-how, expertise and experience in the energy field at the Caribbean Renewable Energy Forum in October 2015
- Caribbean identification and formulation mission for the energy sector (*completed*)
- EU-Caribbean Sustainable Energy Event - technical support for the organization of a business event (*completed*)



## Central African Republic

- Stocktaking of the energy sector (*completed*)



## Cote d'Ivoire

- Support to the identification/formulation of the ENERGOS project of extending the grid in Abidjan, Bouake and San Pedro (*completed*)
- Electricity, renewable energy and energy efficiency regulatory support, drafting of legal decrees of the new electricity law (*completed*)
- ECOFIN analysis of the ENERGOS project (*completed*)

- Assessment of the financial equilibrium of the electricity sector (*completed*)
- Environmental and social appraisal of the ENERGOS project
- Long term support to the Ministry of Energy (*ongoing*)
- Support to the actors involved in the renewable energy sector in Côte d'Ivoire
- Support to ANARE for establishing rules of accounting separation in the electricity sector
- Assistance for an environmental and social impact study (*completed*)



## Cuba

- Stocktaking to identify fields of cooperation in the energy sector (*completed*)
- Identification and formulation of cooperation projects in the energy sector (*completed*)



## DRC

- Feasibility study for the transport network in the Province of Nord Kivu, Virunga natural park
- Stocktaking mission (*upcoming*)
- Electricity tariff study (*upcoming*)
- Feasibility study of the electricity transmission network for the interconnection of hydroelectric generation and rural electrification plants in the Province of North Kivu (*completed*)
- Identification of opportunities for the use of energy sources adapted to the rural environment located on the periphery of the Yangambi biosphere reserve and the Garamba national park (*completed*)



## Eritrea

- Scoping mission for 11th EDF focal sector (*completed*)
- Project identification mission (*completed*)

- Formulation mission and action document for off-grid, grid rehabilitation and renewable energy projects (*completed*)
- Technical support in the identification and elaboration of energy efficiency activities for the development of an energy efficiency action document (*ongoing*)
- Technical support for identification of appropriate options for increasing and improving LPG storage and distribution facilities in Eritrea (*ongoing*)



## Ethiopia

- Long term support to the newly created Ethiopian Energy Agency (*completed*)
- Support in development of an Energy Efficiency Least Cost Energy Plan (LCEP) (*completed*)



## The Gambia

- Stocktaking in the energy sector (*upcoming*)



## Ghana

- Stocktaking and appraisal of energy-related project proposals
- Identification and formulation of activities in support to the energy intensification of the irrigation sector in Northern Ghana
- Identification and formulation of activities in support to sustainable energy solution for agro-processing



## Guinea

- Analysis of the energy sector for better defining the EU actions under the 11th EDF



## Guinea Bissau

- Stocktaking of the energy sector (*completed*)



## India

- Assessment on the feasibility of SEWA projects on solar water pumping, Gujarat state (*completed*)



## Iran

- Elaboration of a country fiche (*completed*)



## Kenya

- Assessment of energy projects under the 11th EDF (*completed*)
- Support for the development of a bio-digester access fund in Kenya (*completed*)
- Preparation of a training program for Kenya counties on renewable energy (*completed*)
- Identification of the need for support to Nairobi county council for waste to energy (*completed*)
- Support to Nairobi city council for a waste to energy plant procurement study (*ongoing*)
- Support under 11th EDF for off-grid electrification (*ongoing*)



## Lesotho

- Scoping mission for preparation of 11th EDF NIP (*completed*)
- Development of criteria for call for proposals for household energy efficient devices (*completed*)
- Long term capacity building support to the Department of Energy (*ongoing*)



## Liberia



- Stocktaking of the energy sector, proposals for capacity building

and restructuring of the Ministry of Energy (*completed*)

- Support to the Bureau of Electricity and Renewable Energy (*ongoing*)
- Detailed design of the Monrovia consolidation and grid extension project and support to the Liberia Electricity Company (*completed*)
- On site reconnaissance survey for updating the tender documents prior to launching the "Monrovia Consolidation Project" (*completed*)
- Electricity tariff study (*completed*)
- Design of the concession model and business model for the off-grid electrification of the secondary cities in Liberia, setting up the enabling environment prior to the implementation of the pilot project(s) with the Ministry of Land, Mines and Energy of Liberia (*upcoming*)



## Madagascar

- Stocktaking in the energy sector and analysis of HV transmission project (*completed*)
- Preparation and organisation of a workshop on financing of renewable energy in Madagascar with side event on ElectrIFI (*completed*)



## Malawi

- Stocktaking on potential EU funding to the Malawi- Zambia interconnector (*completed*)



## Mauritania

- Stocktaking mission for the 11th EDF



## Mozambique

- Identification of a program/project(s) for 11th EDF with action documents on: i) infrastructure component for on

and off- grid, ii) energy efficiency and energy saving and iii) institutional support and capacity development (*completed*)



## Niger

- Stocktaking mission (*completed*)
- Elaboration of a document for national energy policy (planned)
- Advanced prefeasibility study for the construction of a hybrid power plant PV diesel for the city of Agadez (*ongoing*)



## Nigeria

- Stocktaking and project identification and formulation (*completed*)
- Concept note and action document development (*completed*)
- Projects formulation (*completed*)
- Evaluation of AFD proposal for vocational training for NAPTIN (*completed*)



## Occupied Palestinian Territories

- Pre-feasibility assessment of a solar PV system for the Gaza desalination plant (*completed*)
- Stocktaking review of the EU and EU member states interventions on sustainable energy (*ongoing*)



## Overseas Countries and Territories

- Desk study and support to the organization of International Workshop on Marine Energy for Europe's overseas countries and territories (*ongoing*)



## Pakistan

- Stocktaking on Pakistan energy policies (*completed*)
- Support to the organisation of the first EU - Pakistan Energy Meeting (*ongoing*)





## Philippines

- Elaboration of guidelines for the access to sustainable energy programme (ASEP) call for proposals (*completed*)
- Evaluation of the applications submitted under the ASEP call for proposals (*ongoing*)



## Rwanda

- Support for the preparation of the renewable energy law (*completed*)
- Identification of hydro power potential of Akanyaru river (*completed*)
- Elaboration of rural electrification strategy and action plan (*completed*)
- Mission to support EGL for the revision and validation of documents
- Formulation of EU support for the integrated water resource management of Lac Kivu and of Ruzizi Basin within the RIP under the 11th EDF



## Senegal

- Stocktaking of the energy sector/ identification of rural electrification projects in favour of rural areas with agricultural potential production (*completed*)
- Harmonisation of electricity tariffs: gap analysis and conceptualisation (*completed*)
- Harmonisation of electricity tariffs: operationalization of the harmonisation mechanism



## Seychelles

- Stocktaking mission to assess strategy for Renewable Energy projects (*upcoming*)



## Sierra Leone

- Desk study (*completed*)
- Environmental, social and

climate change impact scoping study, Mano river hydro study appraisal (Sierra Leone, Liberia and Guinea)



## South-Africa

- Support for the development of a Non-Grid Electrification Agency to advance the non-grid rural electrification programme of the South African government (*completed*)



## Swaziland

- Support to renewable energy projects to reduce Swaziland's dependence on imported electricity (*completed*)



## Tanzania

- Budget support evaluation mission for preparation of the country NIP under the 11th EDF (*completed*)
- Formulation of a rural electrification programme for preparation of the country NIP under the 11th EDF (*completed*)
- Technical Assistance to EWURA for implementing responsibilities assigned under electricity supply industry reform strategy and roadmap (*completed*)
- Formulation of the roadmap towards the realization of energy performance in buildings regulatory framework including energy performance certification (*ongoing*)
- Identification of support for implementation of the biomass energy strategy in Tanzania (BEST) under the 11th EDF (*ongoing*)



## Togo

- Stocktaking and project identification and formulation (*completed*)
- Institutional capacity

strengthening proposal for the Togo Electricity Company (*completed*)

- Diagnostic and consolidation and extension of distribution network in Lome (*ongoing*)
- Evaluation of the hydro potential of Togo (*ongoing*)
- Project management support to the CEB (Togo-Benin Electricity Company) (*ongoing*)
- Contribution to the formulation of the first part of the program of support to the sector of the energy in Togo (PASET I) (*completed*)
- Social and environmental impact study for extension of the network of the CEET in Togo (*completed*)
- Assistance to the CEET for the negotiation of a PPA (planned)
- Assistance to CEET for mobilization of a long term expert (*upcoming*)



## Uganda

- Long term mission support to provide technical advisory services for Uganda's SE4ALL action plan implementation and support to the SE4ALL secretariat at the Ministry of Energy and Mineral Development (*completed*)
- Support to ensure the optimal visibility of Uganda's SE4ALL action agenda at national and international level (*completed*)
- Development of an SE4ALL energy database and monitoring & evaluation framework for promoting sustainable energy (*completed*)
- Prefeasibility studies for 15 localities in the northern region (*completed*)
- Capacity assessment mission for further support to the SE4ALL secretariat (*completed*)



**Viet Nam**



Stocktaking mission (*completed*)

- MIP inception workshop (*completed*)
- Energy policy assessment (*completed*)
- Support for organizing a workshop on the legal basis for energy data collection (*completed*)
- Organization of a regional training for EU Delegation in Hanoi (*completed*)
- Set up of the Vietnam Energy Partnership Group between Vietnamese Ministry of Industry and Trade, relevant Government Ministries and institutions and bilateral or multilateral institutions (*ongoing*)



**Zambia**

- Technical assistance for the Kariba dam rehabilitation project (*ongoing*)
- Project formulation under the 11th EDF for increased access to electricity and renewable energy production (*completed*)
- Policy support to improve the enabling environment of the Zambian energy sector for rural electrification and IPPs (*ongoing*)
- Identification of energy efficiency quick win actions and support for the development of energy efficiency indicators and monitoring system (*ongoing*)
- Capacity building and technical assistance to develop long term renewable energy targets (*ongoing*)
- Long-term mission to support the Zambezi River Authority's capacity to manage international dam projects (*ongoing*)

## Regional Organisations in Africa

- West Africa region (ECOWAS, UEMOA): Study for the identification and formulation of the energy governance component of the 11th EDF RIP programme of 30 million (*completed*)
- Missions to regional organizations/agencies of ECREEE, ERERA and WAPP in West Africa: i) Consolidation of SE4ALL action agendas in 15 ECOWAS countries ii) support to SE4ALL investment prospectus in 8 ECOWAS countries iii) 2GW solar corridor in West Africa iv) support to regional energy efficiency programme (*ongoing*)
- Missions to EGL, CEMAC, PEAC and CEEAC (in the Great Lakes region and Central Africa); support to Ruzizi III regional hydro project
- PEAC: Formulation of EU support for the energy sector within the 11th EDF RIP for Central Africa



**African Union Commission**

- Legal Framework Assessment Support in the development of a legal harmonised continental regulatory framework for the energy sector in Africa (*completed*)



**Common Market for Eastern and Southern Africa (COMESA)**

- Mission to analyse capacity building needs (*completed*)
- Regional Electricity Regulators Association (RERA) and Regional Association of Energy Regulators for Eastern and Southern Africa (RAERESA): Multi-country mission to Botswana, Namibia and Zimbabwe for formulation of a Regional Energy Regulation

Programme (*completed*)

- Energy efficiency training program in June 2015 for COMESA officials including a possible link to be established with ECREEE (*completed*)
- Energy policy and planning regional stakeholders' workshop in November 2015, experience exchange with ECOWAS and ECREEE, RERA, RAERESA, SAPP (*completed*)
- Technical assistance to develop a harmonised and efficient regulatory environment in the Eastern and Southern Africa and Indian Ocean region (*completed*)
- Technical assistance to COMESA and RAERESA in developing strategic, sustainable, integrated and coordinated governance (*ongoing*)



**ECREEE**

- Elaboration of the SE4ALL investment prospectuses in 8 of the 15 ECOWAS member states (Cape Verde, Cote d'Ivoire, Nigeria, Togo, Benin, Senegal, Liberia, Sierra Leone)
- Technical assistance to formulate the action agenda for a 2GW solar corridor in West Africa
- Consolidating National Renewable Energy Action Plans (NREAP) and National Energy Efficiency Action Plans (NEEAP) of the ECOWAS region



**Energy Charter Treaty**

- Providing support to Swaziland in cooperation with the Energy Charter Secretariat through activities aiming at promoting investment friendly regulatory environment on the basis of the Energy Charter Treaty
- Providing support to Chadian cooperation with the Energy Charter Secretariat through activities aiming at promoting investment friendly regulatory

environment on the basis of the Energy Charter Treaty



### (South Africa Power Pool) SAPP

- Study tour in June 2015 to European Network of Transmission Operators for Electricity (*completed*)
- Workshop in July 2015 for implementing balancing markets in the SADC region (*completed*)
- Training in September 2016 for SAPP system controllers on the operation of the SAPP Market Trading Platform (MTP) (*completed*)
- Study tour for SAPP energy traders and system controllers to European Power Exchanges and the European Network of Transmission System Operators for Electricity (*completed*)
- SAPP markets sub-committee study tour to Europe on electricity balancing and cross-border trading (*completed*)
- SAPP environmental sub-

committee study tour to Europe on environmental issues and regulation (*coming up*)



### Southern African Development Community (SADC)

- Develop a consultation process and communication strategy for the establishment of a SADC Renewable Energy and Energy Efficiency Strategy and Actions Plan (REEESAP) (*ongoing*)
- SADC Centre for Renewable Energy and Energy Efficiency (SACREEE) scoping and assessment for the design of an industrial energy efficiency programme for SADC member states (*ongoing*)



### Sustainable

### Energy Association of Singapore - Asian Development Bank

- Support to the organisation of a workshop on off-grid rural electrification for policy makers

from the Asia-Pacific Developing Countries (*completed*)



### Worldwide

- Production of a "Sustainable energy handbook" for energy project managers in EU Delegations
- Energy "Country fiches" and energy policy annexes providing condensed information for each country's energy sector
- Technical input for finalising the draft [Methodological guidelines for budget support in the energy sector](#) (*completed*)
- Support to the organization of the [Stakeholder consultation on women and energy](#) (*completed*)



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