



TAF Newsletter #18 | February 2019

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The EU's Technical Assistance Facility (TAF) for Sustainable Energy

What's new: Field Facts and Findings

Cabo Verde: Electricity Master Plan 2018 – 2040

The Council of Ministers of Cabo Verde approved the Electricity Master Plan 2018 – 2040, which was prepared with technical assistance from the TAF.



Botswana: National Energy Use Survey - NEUS

The TAF is supporting implementation of Botswana's National Energy Use Survey (NEUS). Survey Enumerators and Supervisors are being trained for the field work to be launched in February 2019.



Ukraine/ Regional: EU supports investment into sustainable energy in economies in transition

How to create the right integrated policy, institutional and regulatory frameworks for renewable energy (RE) and energy efficiency (EE) uptake in Neighbourhood-East countries and Central Asia to overcome energy poverty and improve quality of life? The TAF provided support to DGs DEVCO, NEAR and UNECE by sharing knowledge and promoting international best practice at a regional event held in Kiev.



What's next: Upcoming Missions

- **Pacific Region:** Project Pipeline in support to the Pacific Region ElectriFI Window
- **Sri Lanka:** Assessing Market Potential for Renewable Energy projects and Funding Opportunities for private sector investments
- **Uzbekistan:** Scoping Mission/ Market Assessment Study on Sustainable Energy

'The EU's Technical Assistance Facility for Sustainable Energy' newsletter covers items of news from all the countries of operation of the TAF: East & Southern Africa, West & Central Africa, East & South Neighbourhood, Asia & Central Asia, Latin America, the Caribbean and the Pacific.

If there is a particular topic that you would like to see covered in future newsletters, please write to us. We welcome your feedback!

With our best wishes,

The TAF teams

What we do: The EU's Technical Assistance Facility for Sustainable Energy

Focus on: Europe /Central Asia/ Neighbourhood South

Who's who: Meet the Team

What's new: Field Facts and Findings

Cabo Verde: Electricity Master Plan 2018 – 2040

Activity Areas: Policy and reforms; Investment projects planning

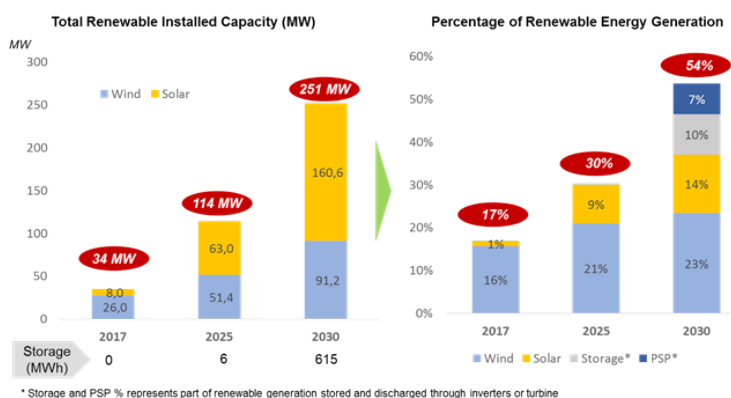
The Council of Ministers of Cabo Verde approved the Electricity Master Plan 2018 – 2040, which was prepared with technical assistance from the TAF.

Cabo Verde's newly approved Electricity Master Plan 2018-2040 defines power generation and grid expansion for the nine inhabited main islands of the country. Under the Least-cost Reference Scenario, the renewable energy (RE) based electricity generation to be developed from wind and solar will count for more than 50 % by 2030 as shown in the diagram below. Implementing the Master Plan' Reference Scenario will put the country in a position to achieve the targets committed at the COP 21 Conference in Paris.

For each island, a six-sector planning steps approach was undertaken: electricity demand analysis and forecast up to 2040; assessment of renewable electricity generation potential and identification of possible projects; planning of the phasing-out of thermal generation capacities; identification of electricity storage technologies including pump-storage for Santiago Island; least-cost generation expansion simulation ;and grid-stability analyses determining the back-up requirements.

The TAF team, jointly with the experts from the Ministry of Economy and Employment (MEE) and the national electricity company ELECTRA, carried out studies at the national and global level. A review of the regulatory framework, a forecast of fossil fuel prices and technology costs (wind, PV, storage technologies), an assessment of the financial and tariff impacts, and the establishment of an investment plan and action catalogue were included in the scope of work.

Along with the Council of Ministers' approval of the Master Plan, the Government endorses the need of the 20 MW pump storage project for Santiago Island. Based on a pre-feasibility study financed in 2011 by the Portuguese Government, the TAF presented in May 2017 up-dated investment costs with economic-financial simulations for this electricity storage project decisive for Santiago Island's electricity system. Potential financiers will welcome the approval of the Master Plan, as now financial discussions on the pump storage might resumed after being put on hold await for the Master Plan completion.



Source: TAF, Electricity Sector Master Plan 2017 - 2040, Draft Document, November 2018



On 6 December 2018, the Government of Cabo Verde approved the resolution approving the 2018-2040 Electric sector master plan at a meeting of the Council of Ministers – Here, the spokesman of this session of the Council of Ministers, Abraham Vicente, updates the Press.



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What's new: Field Facts and Findings

Botswana: National Energy Use Survey - NEUS

Activity Areas: Policy and reforms; Capacity building.

The TAF is supporting implementation of Botswana's National Energy Use Survey (NEUS). Survey Enumerators and Supervisors are being trained for the field work to be launched in February 2019.

The general objective of the requested technical assistance by the Ministry of Mineral Resources, Green Technology and Energy Security (MMGE) is to contribute to improving Energy Statistics and providing robust data for energy planning and policy formulation.

The TAF is supporting the Department of Energy to implement a National Energy Use Survey–NEUS, develop a robust Energy Information System (EIS) and planning tools, analyse the collected data and publish the survey findings. The survey results will be published in a report presenting the methodology of computation of the results and the main conclusions that are drawn from the data analysis.

The reference period for the NEUS will be the 12 months prior to the realisation of the survey. The survey will be performed with one visit to each unit of the sample over a period of three months. The surveys for households and enterprises will be done in parallel. Sampling performed by Statistics Botswana (SB) will be used for the survey. Furthermore, SB will also contribute during the realisation of the survey.



A total of 15 prospective supervisors were trained using the tools, questionnaire and manual developed by the TAF team.

The TAF has developed questionnaires and a manual for the enumerators and the supervisors who will conduct the survey. The supervisors and enumerators have been trained by the TAF team, using a Computer Assisted Personal Interviewing (CAPI) system and database, which will hold the raw survey data.

The fieldwork of NEUS will be coordinated by the Ministry's Department of Energy (DoE). The teams of enumerators and supervisors will conduct the survey in a period of three months. Pilot testing is under way, and the field work itself will be launched in late February, to be completed by May 2019.

The team will analyse the collected data, and the Ministry's Department of Energy will use the findings for policy formulation.

Procedures for the annual collection of data in the energy sector will also be set up, and the data will feed the Energy Information System - EIS with all the required data, hence the Department of Energy will be able to produce the actual updated detailed energy balance of Botswana and energy indicators.

A workshop will be held in order to present the outcome of the survey to all stakeholder of the energy sector.



What's new: Field Facts and Findings

Ukraine/ Regional: EU supports investment into sustainable energy in economies in transition

Activity Areas: Policy and reforms; Mobilising funds and partnerships; Industrial and technology cooperation.

How to create the right integrated policy, institutional and regulatory frameworks for renewable energy (RE) and energy efficiency (EE) uptake in Neighbourhood-East countries and Central Asia¹ to overcome energy poverty and improve quality of life? The TAF provided support to DGs DEVCO, NEAR and UNECE by sharing knowledge and promoting international best practice at a regional event held in Kiev.

The TAF was tasked by the European Commission's Directorate-General for International Cooperation and Development (DG DEVCO) and the Directorate-General for Neighbourhood and Enlargement Negotiations (DG NEAR), to organise two sessions during the United Nations Economic Commission for Europe - UNECE's 9th International Forum on Energy for Sustainable Development in Kiev on 13 November 2018. The objective was to highlight effective approaches and models to **foster investment in sustainable energy projects**, which is still lagging behind other similar regions. Successful RE and EE policy, investment and finance initiatives from the participating countries were showcased by a diverse set of speakers.

Through technical presentations and country case studies, complemented by animated panel discussions, the two sessions looked at the **required policy interventions and improving the regulatory and market frameworks**, while also addressing the specific barriers to investment in order to boost investor confidence in the region. Country examples – from Albania, Georgia, Kazakhstan, Kyrgyzstan and Ukraine – showed that diverse approaches were used based on the specific national circumstances, such as **RE feed-in tariffs and auctions**. At the same time, many countries were keen to develop joint policies for RE and EE. On energy efficiency, the flagship EU-supported **Ukrainian Energy Efficiency Fund** was showcased as an efficient



Assen Gasharov, TAF; Torsten Woellert, DG NEAR; Olga Buslavets, Ukraine's Ministry of Energy and Coal; Gianluca Sambucini, UNECE; Baltugan Tazhmakina, Kazakhstan's Ministry of Energy; Borys Dodonov, IEA-EU4Energy.

instrument to reduce energy poverty, while initiatives by the The European Bank for Reconstruction and Development- EBRD and the German development agency – GIZ, in municipalities, schools and hospitals were also discussed. On renewable energy, project development from the Georgia's Energy Development Fund and Ukraine's State Agency on Energy Efficiency and Energy Savings were showcased.

¹ 17 countries: Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Georgia, Kazakhstan, Kosovo, Kyrgyzstan, FYRO Macedonia, Moldova, Montenegro, Serbia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan



What's new: Field Facts and Findings

A wide range of stakeholders attended the sessions and contributed to the exchange – representing government departments and agencies, international institutions and finance organisations, industry, researchers and NGOs. During the event, TAF experts made technical presentations and moderated the panel discussions. In addition, a set of 10 selected case studies on sustainable energy investment projects was compiled, demonstrating local solutions and opportunities to overcome administrative, market and economic barriers. This collaboration with UNECE contributed to continue the joint effort to disseminate knowledge and information across this diverse region.

Overall, the overarching message that investment in RE and EE needed to increase significantly in the region was reinforced by flagging a number of programmes, initiatives and tools, through the EU and other donors such as World Bank, EBRD, GIZ, designed to accelerate deployment EE and RE.

What's next: Upcoming Missions

Pacific Region: Project Pipeline in support to the Pacific Region ElectriFI Window

ElectriFI encourages the adoption of renewable energy, with a particular emphasis on decentralised energy solutions by providing interim financing solutions to help projects overcome obstacles or otherwise reach a sufficiently mature stage that could attract private financiers. Under the supervision of DEVCO, ElectriFI is managed by the European Development Financial Institution (EDFI) Management Company (EDFIMC).

This mission targets to assist EU services in developing a project pipeline and provide additional support to EDFIMC to ensure the success of the implementation of the Pacific ElectriFI Window.

The specific objective of this assignment is therefore to identify projects and develop a pipeline suitable for ElectriFI, providing also active advice to project developers in view of submitting proposals under the Pacific Region ElectriFI Window. Simultaneously, the mission will provide on-demand support, approved by DEVCO C6, to EDFI Management Company in implementing the ElectriFI Window for the Pacific.

Energy security is a compelling reason to pursue EE and RE in the Pacific and PICTs are gradually increasing the contribution of RE resources to their energy mix. Investments in renewable energy are essential in achieving energy security and sustainable renewable energy in the region. National and international investments in energy efficiency and renewable energy are not enough to achieve energy security.

Sri Lanka: Assessing Market Potential for Renewable Energy projects and Funding Opportunities for private sector investments



A mission focusing on the market potential for renewable energy projects and funding opportunities for private sector investments will be organised in Sri Lanka. The key objective of this mission is to analyse the national sustainable energy context. In this framework, the experts will assess the private sector investment in this field. Depending on the outcome of the assessment, the team also will develop the needed instruments in considerable detail.



What's next: Upcoming Missions

To reach this strategic objective, several critical steps will be undertaken. The expert mission will provide: a clear description of the Sri Lankan sustainable energy market potential, an overview and assessment of all donor support to the sector, a comprehensive assessment of all financiers / investors in the sector, an overview of most suitable technologies and business models. The team aims also to prepare an energy sector country fiche and to formulate clear recommendations regarding possible financial instrument(s) to enable and scale up private sector investments in sustainable energy including their details, with an emphasis on Electrifi. The team will draft also recommendations for any complementary support to be provided through development partner.

Uzbekistan: Scoping Mission/ Market Assessment Study on Sustainable Energy



A mission to prepare an in-depth Market Assessment Study on Sustainable Energy (SE) will be organised in Uzbekistan. The assignment will put a specific emphasis on the deployment of Renewable Energy (RE) and Energy Efficiency (EE) and the right Investment Strategy in this sector, covering both, potential public as well as private investor, for this country in view of identifying and assessing possible options for EU sectoral interventions. Likewise, policy related recommendations in view of optimizing the impact of EU and Member States' development aid on SE have to be proposed by the experts' team, including possible options for EU intervention in the sector.

The effects of climate change are already visible in Uzbekistan with reduced snow falls, the increasingly erratic climate patterns, the drying up of the Aral Sea and the higher water losses through evaporation. In the same time, demand for energy in Uzbekistan is constantly growing, due to strong economic growth and improved living standards of the population. In this specific context, the objectives of the mission will be to take stock of the current situation in the Sustainable Energy (SE) sector and also, to identify possible actions that might be supported by the EU and if so, in which conditions and partnerships, to improve the performances of this sector.

What we do: The EU's Technical Assistance Facility for Sustainable Energy

The 'EU's Technical Assistance Facility (TAF) for Sustainable Energy'

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

Through targeted expert missions to the partner countries, five types of technical assistance packages ('Activity Areas') are delivered:

Policy and reforms; Capacity building; Investment projects planning; Mobilising funds and partnerships; Industrial and technology cooperation.



What we do: The EU's Technical Assistance Facility for Sustainable Energy

Supporting the **#EU's vision** and strategies at national and regional level
 Provision of **#high quality** technical assistance at Partner Country and Region
#Low lead times from ToR preparation to assignment launch
 Efficient and **#effective management** of each mission
#Control mechanism and QA for coherent deliverables

Overview of TAF support:

Since its launch in 2013, the TAF has provided technical assistance for some 240 missions in Sub-Saharan Africa.

A year after the Sub-Saharan Africa TAF launch, TAF operations were extended to also accommodate regions beyond Sub-Saharan Africa, and to date over 30 technical teams have been deployed by the TAF 'Rest of the World' Facility – ranging from the East and South Neighbourhood and Asia to Latin America, the Caribbean, and the Pacific.

Focus on:

Europe /Central Asia/ Neighbourhood South



Who's who: Meet the team

CONTACTS

Newsletter Contact

Eleni Karfaki | eleni.karfaki@hcl-consultants.com

TAF for East and Southern Africa

European Commission Contact

Miguel Angel Varela Sanchez
Miguel-Angel.VARELA-SANCHEZ@ec.europa.eu

Team Leader, Key Expert

Rachid Bendaly
rachid.bendaly@atkins-se4all.com

Key Expert for Rural Electrification

Balthasar Klimbie
balthasar.klimbie@atkins-se4all.com

Key Expert for Energy Efficiency

Dimitris Papastefanakis
dimitris.papastefanakis@atkins-se4all.com

Consortium Contact

Dominic Bacon
dominic.bacon@atkinglobal.com

TAF for West and Central Africa

European Commission Contact

Thierry Bertouille
Thierry.BERTOUILLE@ec.europa.eu

Project Manager, Team Leader

Joséphine Arpaillange
taf.j.arpaillange@gmail.com

Key Expert for Rural Electrification

Martin Ehrlich
mpgehrlich@aol.com

Key Expert for Renewable energy

Luc Chancelier
chancelierluc@gmail.com

Consortium Contact

Magda Popescu
magda.popescu@stantec.com

Anca Andreescu
anca.andreescu@stantec.com

TAF for Neighbourhood (East and South), Asia (including Central Asia), Latin America, Caribbean and Pacific

European Commission Contact

Anca-Maria Simion
Anca-Maria.SIMION@ec.europa.eu

Team Leader, Project Manager, Coordinator and Key Expert for Asia

Thierry Lefevre
T.LEFEVRE@ceerd.net

Key Expert for EU Neighbourhood (East and South) and Central Asia

Emmanuel Bergasse
Emmanuel.BERGASSE@sofreco.biz

Key Expert for Latin America, Caribbean and Pacific

Federico S. Fische
Federico.FISCHE@sofreco.biz

Consortium Contact

Majda Bunjevcevic
Majda.BUNJEVCEVIC@sofreco.com

DISCLAIMER

This newsletter update has been drafted by the EU's Technical Assistance Facility (TAF) for Sustainable Energy. The aim is to update EU Delegations regarding news and findings from the TAF missions and areas of assistance. The data has been collected from various sources by the TAF Experts in the context of the ongoing TAF missions, and is not exclusive. Please feel free to contact us with any feedback on the information provided, or other areas of support you would like to be informed of.

