

## Job Description

### ECREEE Small Hydro and Ocean Energy Expert

**Post title:** ECREEE Small Hydro and Ocean Energy Expert  
**Duty station:** ECREEE Headquarters, Praia, Cape Verde  
**Duration:** 24 months (with the possibility for extension)

#### Background

The ECOWAS Small Hydro Power Program was developed in partnership with the United Nations Industrial Development Organization (UNIDO) and adopted by the ECOWAS Ministers of Energy in October 2012. The Program aims to contribute towards increased access to modern, affordable and reliable energy services, energy security and mitigation of negative externalities of the energy system (e.g. GHG emissions, local pollution) by establishing an enabling environment for small-scale hydro power investments and markets in the ECOWAS region. Based on the achievements, the program is currently entering the 2<sup>nd</sup> phase of implementation. The 2<sup>nd</sup> phase focuses on investment and business promotion and is expected to generate significant socio-economic and environmental benefits, including enhancement of capacities for climate resilience/adaptation.

SIDS DOCK<sup>1</sup> and UNIDO, under the Global Network of Regional Sustainable Energy Centres (GN-SEC)<sup>2</sup> program, are currently launching the Global Ocean Energy Alliance (GOEA), which accelerates the deployment of ocean energy (OE) technologies through partnerships that mobilize technical, human and financial resources. It aims to establish a global community of vested interest with the capacity to develop a pipeline of bankable OE projects to serve islands, cities and coastal developing nations in Africa. It builds a bridge between the industry and research players, which need to test new solutions in various climates and contexts, and the interest of SIDS and coastal countries in Africa to get access to technology and expertise. In partnership with the centres of the GN-SEC, it is envisaged to develop, raise financing for and implement regional packages of bundled industry-relevant demonstration and investment projects. The platform will put an extra-effort on solutions, which are - due to the varying potentials - of less interest for industrialized countries and of high interest for SIDS and coastal African nations, particularly Ocean Energy Conversion Technologies. A number of ECOWAS countries have one of the best feasible and viable OTEC potentials. OE is an important pillar of the blue economy strategies of ECOWAS countries.

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<sup>1</sup> [www.sidsdock.org](http://www.sidsdock.org)

<sup>2</sup> [www.gn-sec.int](http://www.gn-sec.int)

The SHP program and the GOEA contribute to the objectives of the ECOWAS Renewable Energy Policy (EREP) to increase the share of renewable energy (excl. large hydro) in the overall electricity mix to around 19% in 2030. These targets translate to the installation of additional 2.425 MW renewable electricity capacity by 2020 and 7.606 MW by 2030. It is estimated that SHP could contribute with 2449 MW (32%) by 2030 to this additional capacity. The SHP and ocean energy program also contributes to the objectives of the ECOWAS White Paper on Energy Access in Peri-Urban and Rural areas. It is expected that in 2030 around 25% of the rural population will be served either fully or partly through renewable energy powered mini-grids. Due to the infant stage of the technology, ocean energy was not considered seriously in the NREAP.

ECREEE will become a pioneer of promoting ocean energy as part of the blue economy aspirations of the ECOWAS member states. This is an important contribution to the goals of the Third Industrial Development Decade for Africa (IDDA III), the Agenda 2063 and Blue Economy Strategy of the African Union. ECREEE will facilitate south-south and triangular cooperation with the other GN-SEC centres. Under the program, ECREEE takes also leadership in the coordination of the joint south-south SHP activities of the Global Network of Regional Sustainable Energy Centres (GN-SEC). In this context, ECREEE is recruiting a SHP and OE expert to be based at ECREEE Headquarters. The expert will support the ECREEE SHP Program Manager.

## **General Description**

The expert will take leadership in the implementation of the ECOWAS SHP and OE programs. The expert will report to the ECREEE RE Program Manager and the UNIDO GN-SEC Program Manager and his team. The expert takes responsibility to implement the annual activities of the programs and provides technical advice to ECREEE staff and the National Focal Institutions (NFIs). The expert will work closely with the GOEA program management and the working groups for LDCs and SIDS.

## **Duties and Responsibilities**

### Assistance to the Program Management

- Take leadership in the finalisation of the project document for the 2<sup>nd</sup> phase of the ECOWAS SHP program; work with UNIDO and SIDS DOCK on the finalisation of the ECOWAS OE Program Component under the GOEA; include gender mainstreaming elements;
- Assist in the development and implementation of the annual SHP/OE work plans in alignment with the project document;

- Assist in elaborating periodical reports on the progress and achievements of the SHP/OE programs in relation to its objectives, results and indicators (incl. analytical recommendations for adaptations and revision of activities etc.);
- Assist the program managers at ECREEE and UNIDO in monitoring the progress of the programs and its administrative and financial execution;
- Contribute to the expansion of project portfolio of ECREEE regarding SHP/OE; develop high-standard concept notes and project documents in line with international donor requirements; work with other GN-SEC on joint project proposals;
- Assist in fund raising activities and contribute to preparation of project proposals to be co-funded by the European Union, the Global Environment Facility (GEF), the Green Climate Fund (GCF), the Climate Adaptation Fund or other partners; develop a strong theory of change for the use of OE in the context of climate change mitigation and adaptation;
- Contribute to the undertaking of independent evaluations and audits on ECREEE program and project activities;
- Assist in compiling the information provided by the National Focal Institutions (NFIs) about the progress of the execution of SHP/OE projects (e.g. feasibility studies, construction);
- Participate actively in the meetings of the GOEA and provide inputs to the LDCs and SIDS working groups; participate in international expert meetings on SHP/OE;
- Assist in organizing the ECREEE governance meetings;

### Technical Tasks

- Advice ECREEE staff and NFIs on SHP and OE issues and technologies (e.g. tidal, wave, OTEC, off-shore wind, floating PV);
- Advice governments, utilities and private sector on SHP/OE investment opportunities; assist with the integration of the OE dimension in energy/climate planning and scenarios; advice on socio-economic and environmental benefits, including for men and women, as well as climate change adaptation;
- Prepare and execute complex procurements and call for proposals;
- Effectively implement and monitor the assignments of contracted consultants and project implementers in cooperation with the int. program manager;
- Support the identification of attractive investment sites, development of feasibility studies and spearhead discussions with financiers and investors; take leadership in the development of regional project pipelines;
- Implement a wide range of different SHP and OE activities (e.g. trainings, conferences, policy activities, co-funding of projects)
- Assist in the development of online training tools and toolkits; promote the OE module of the GN-SEC Online Capacity Building Program on Sustainable Energy Solutions for Islands.

- Assist in the coordination of the joint SHP and OE activities of the GN-SEC and GOEA; lead the GN-SEC SHP working group;
- Work closely with UNIDO on the dissemination of the developed technical guidelines for SHP and ISO standards;
- Assure quality of approved projects according to donor requirements and ensure that pro-poor, environmental, and gender impacts have been assessed;
- Monitor co-funded SHP/OE projects in the field;
- Organize trainings and conferences;

### Communication

- Build collaborative partnerships between the Centre and other international centers, initiatives with a view to leverage know-how, resources, technologies;
- Ensure harmonization of SHP/OE program activities with other donor initiatives and alignment with local initiatives and support systems (local subsidy systems for renewable energy);
- Establish strategic links to loan and equity finance institutions (such as development banks in donor countries, national or regional development banks, World Bank);
- Establish policy dialogue with ECOWAS/WAPP/ERERA and national institutions on regional SHP policy aspects (e.g. providing feed-back from project experiences etc.);
- Network with national and regional chambers of commerce etc. in order to integrate representatives of the business community into the regional forums.
- Engage relevant stakeholders in renewable energy policy dialogue including public institutions, civil society and private sector;
- Create synergies to the other ECREEE, GN-SEC and UNIDO activities (e.g. workshops, conferences, trainings, call for proposals);
- Ensure effective public relations and publication of information on the SHP/OE Programs to different target groups (communication strategy, forums); disseminate the information throughout the ECOWREX and the GN-SEC information portal; ensure visibility of UNIDO and SIDS DOCK;
- Regularly update the SHP/OE website of ECREEE and GN-SEC;
- Contribute regularly to the GN-SEC newsletters and joint initiatives;

### **Qualification:**

- Candidate must be a Citizen of an ECOWAS Member State; Women are encouraged to apply;
- At least Master's degree in engineering, economics or another relevant discipline; background in renewable energy, particularly on SHP and OE is a strong comparative advantage;
- Minimum of three years of work experience in relevant fields of renewable energy in the private and/or public sector;
- Scope and quality of demonstrated knowledge of SHP/OE business trends, economic, technical, social, legal and financial issues;

- Scope and quality of provided track-record regarding SHP/OE in a broad range of fields (e.g. project development, construction, operation, policy issues, capacity building, knowledge management);
- Knowledge of the ECOWAS SHP/OE situation, issues and stakeholders is a strong added value;
- Experience in working with private sector;
- Have the capacities and attitudes in order to work with multidisciplinary groups
- Proficiency in the use of software packages;
- Analytical capacity and negotiation skills;
- Capacity to work under pressure and availability to travel;
- Ability to organize, analyze and synthesize different types of information in a systematic manner

**Languages:**

- Applicants must be fluent in English; knowledge of French or Portuguese is a strong added value;

**The electronic application contains the following documents:**

- Detailed CV
- Motivation or Cover Letter
- Track record of assignments of similar scope and focus (list of int. projects and descriptions)
- Scanned copy of highest university certificate and other technical certifications, licenses and quality standards related to the assignment
- Scanned copy of passport