



ECREEE
Towards Sustainable Energy

Achada Santo António, ECREEE Building, 2nd Floor
Praia – Cabo Verde
(+238) 2604630
ecreee@ecreee.org
www.ecreee.org

TERMS OF REFERENCE

Recruitment of Senior Consultant

Sustainable Energy Expert for EU Funded Project

ENERGY SYSTEM MODELLING FOR GREEN DEVELOPMENT OF AFRICA

(EMERGE)

Submission deadline: no later than 23:59 GMT-1 (Cabo Verde time) on the 11th December 2023



Type of contract: Project based.

Duration: 3 Years

Duty station: Praia, Cabo Verde

Scope: Regional - ECOWAS

Salary: EUR 3,000 per Month



1. Introduction

The ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE), with ten (10) other organisations, is implementing a project entitled: Energy System Modelling for Green Development of Africa (EMERGE).

“The EMERGE project seeks to provide African policy makers, academics, investors, and citizens with the tools and knowledge required to increase the production of clean energy and the sustainable use of resources while bridging cultural and socioeconomic divides. In order to simulate scenarios that optimize the use of current resources while taking into account social, climatic, economic, and technical constraints, EMERGE will co-design and test a Toolbox by integrating and building upon existing tools, methodologies, and approaches. Additionally, a Knowledge Base with a collection of initiatives, materials, and knowledge-exchange activities will be created. The North-Western Africa (Morocco), Niger river region (Mali/Nigeria), and east Africa (Mozambique) are three African ecosystems where EMERGE will develop knowledge communities through a participatory approach.

To this end, ECREEE is seeking to recruit a senior consultant who will serve as the ECREEE Project Manager for EMERGE.

The Senior Sustainable Energy Expert will be based in Praia, Cabo Verde and will be responsible for the daily planning, implementation, monitoring and reporting of the project’s activities.

2. Background

EMERGE aims to bring innovative solutions, knowledge transfer and capacity building approaches into the multi-faceted context of Africa through an open innovation methodology and developmental pathways focusing on practical problems and solutions, taking into account the economic, environmental, social and health benefits across African communities, and targeting the establishment of local business, employment opportunities.

The project will develop and implement strategic capacity building actions around renewable energy through trainings; leveraging of local supply chains to drive business development and opportunities; devising appropriate business models for replication and upscaling across other Africa countries; and engaging civil society organizations and investors, using the WEF Nexus (Water-Energy-Food) as the case-study.

EMERGE has the following **Strategic Objectives**:



- I. Specific Objective 1: Establish a network of African experts in energy system analysis through value-based design methodology that reflects on technical, economical, environmental and social aspects of energy planning;
- II. Specific Objective 2: Connect with other AU-EU cooperation activities by linking with similar project and initiatives;
- III. Specific Objective 3: Demonstrate innovative EMERGE Toolbox based on a cross-sectoral CSA for energy system analysis and planning as a support mechanism for the policy and decision-makers;
- IV. Specific Objective 4: Identify and evaluate regulatory frameworks, energy markets and potential opportunities for clean energy technologies integration to foster an enabling environment for current and future energy transition of the African countries;
- V. Specific Objective 5: Promote, raise awareness and facilitate the adoption of the solutions in EMERGE Toolbox to support the wide-scale energy transition of African countries through actions that contribute to the R&I strategy development and AU-EU cooperation.

The project has seven (7) Work Packages (WP), namely:

1. EMERGE Knowledge Base, engagement and value-based proposition design of the energy system models;
2. Definition of EMERGE CSA and database creation;
3. EMERGE Toolbox development;
4. EMERGE Research & Innovation and Policy Laboratory;
5. Demonstration and validation of the EMERGE solutions;
6. Dissemination, exploitation and impact creation;
7. Project management.

ECREEE will participate in each of the WP and lead two (2) tasks under WP T2.1 Analysis of existing databases and models [M1 – M6] and T5.3 Niger river region [M3-M36].

WP T2.1 will build on the ongoing EU project titled OnePlanET. The expert will therefore be expected to collaborate with the OnePlanET Project Manager to collate data for EMERGE.

3. Job description



The primary responsibility of the Sustainable Energy Expert recruited for this project is to execute ECREEE's responsibilities under this project in a timely manner and maintaining the highest quality. In addition, the Expert will work in ongoing initiatives of ECREEE that complement this project.

The specific duties and responsibilities of the Sustainable Energy Expert include:

- Develop, implement, and coordinate annual workplans and activities of ECREEE work packages and tasks under the EMERGE, ensuring that gender is mainstreaming through the process.
- Oversee daily management of relevant parts of the project - both organizational and substantive matters – budgeting, planning and general monitoring of the project in close collaboration with the ECREEE Renewable Energy Programme Officer (Technology) and under the supervision of the Director of Operations (DoO).
- Support Collect and review data collected from member states and other sources for accuracy and quality.
- Support in updating data points and country energy statistics on the interactive country profiles on ECOWREX
- Support with the development of the monitoring framework report on the implementation of the ECOWAS Sustainable Energy Policies
- Work with the ECOWREX team to review and reorganize the indicators and sections of the country profiles to provide the most relevant information to the ECOWREX target groups i.e. policy makers, promoters, investors and general public, while at the same time, making the process of updating the ECOWREX platform more efficient;
- Develop a data validation methodology that allows government stakeholders to fully explore the advantages of data sourced from non-state actors.
- Actively contribute to ongoing data collection activities such as (ECOWAS RE&EE Reports, GSR data collection, EAC Regional RE & EE Report)
- Develop information, communication, and education (IEC) materials and ensure regular dissemination of project implementation.
- Prepare terms of reference for national and international consultants and subcontractors as needed.
- Monitor and guide the subcontractors for compliance with the agreed work plan.
- Develop and implement self-monitoring, quality assurance and independent evaluation systems, including facilitated feedback from Member States and international partners, as a basis to sharpen and improve the objectives, strategy, and operations of the EMERGE.



- Monitor the expenditures, commitments, and balance of funds in line with the annual work plan and reporting requirements.
- Develop periodic project progress reports, as well as any other reports requested under the project Consortium Agreement and by ECOWAS Monitoring & Evaluation Unit.
- Build new partnerships with relevant institutions and identify funding opportunities for replicating and scaling up the project across West Africa.
- Undertake any other actions requested by your supervisor.

4. Qualification

- Master's degree in energy, engineering, economics, developmental studies, or any related field.
- At least 8 years of work experience in the sustainable energy sector.
- Sufficient knowledge of the ECOWAS energy landscape: policies, legal and regulatory frameworks, including the sustainable energy policies developed by ECEEE.
- Ability to undertake research and lead strategic dialogue on key development issues.
- Strong problem solving, communication, research, and analytical writing as well as organizational skills.

4.1 Competences

- Experience in System Dynamic modelling
- Complex Scenario definition
- Co-design methodologies
- Previous experience in WEF Nexus
- Experience in Nexus modelling
- Multidisciplinary approach in research
- Interactions with ECOWAS or AU based initiatives
- Policy development capacity
- Stakeholders' inclusion in governance definition processes
- Stakeholders' engagement strategies



- Project replication in complex environments
- Training about Nexus topics
- Communication & Dissemination
- Multi impact assessment
- Experience working in donor funded projects (EU, UN, etc.).

5. Submission

Interested applications should submit CV, cover letter and Certificates to se-expert@ecreec.org by **23:59 GMT-1 (Cabo Verde time) on the 11th December 2023.**