



PREPARATORY PHASE FOR THE CENTRE FOR RENEWABLE ENERGY AND ENERGY EFFICIENCY OF CENTRAL AFRICA (CEREEAC)

Questionnaire to Assess Added Value and Feasibility

28 May 2020



with technical and financial assistance of the United Nations Industrial Development Organization (UNIDO) under the umbrella of the Global Network of Regional Sustainable Energy Centres (GN-SEC) Programme



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



Global Network
Regional Sustainable
Energy Centres

and consulting support of:



ITPENERGISED



ECREEE
TOWARDS SUSTAINABLE ENERGY

Please do not hesitate to contact the project team by e-mail:

cereec@gn-sec.net

Regular updates on the process will be published at:

<http://cereec.gn-sec.net>



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1. Introduction

The United Nations Industrial Development Organization (UNIDO) and the Economic Community of Central African States (ECCAS) are partnering on the potential establishment of a Centre for Renewable Energy and Energy Efficiency for Central Africa (CEREEAC) as part of the Global Network of Regional Sustainable Energy Centres (GN-SEC).¹

The potential centre would assist ECCAS Member States in the creation of inclusive regional markets for renewable energy (RE) and energy efficiency (EE) products and services, by promoting equal progress, coordination, joint learning and knowledge exchange. It is based on the assumption that some of the existing barriers for RE and EE can be addressed more effectively and at lower cost through regional tools and methodologies. CEREEAC would partner closely with the other regional centres created by the Arab League, ECOWAS, EAC and SADC.²

Therefore, over the next months, the partners are implementing a consultative needs assessment, which will determine the added value and potential technical and institutional design of the potential regional centre. The assessment will be undertaken with consulting support of ITP Energised and in partnership with ECREEE. The provided inputs will form an important basis for the project document on the 1st operational phase of the centre.

This questionnaire has been developed to capture the views, interests, priorities and expectations of energy key stakeholders in the ECCAS region and internationally, with regard to such a regional centre. In particular, the questionnaire will assist in the identification of the following key aspects:

- Understanding the relevance of RE&EE for ECCAS countries and the current status of deployment and policies.
- Assessing the added value and scope of the mandate of a potential CEREEAC and assess its priority areas for assistance.
- Understanding the expectations of the different stakeholders regarding the functions and provided services of the CEREEAC.
- Identifying regional priority interventions of a potential CEREEAC to address existing RE&EE barriers in ECCAS complementary to national efforts.
- Identifying options for an effective, efficient, sustainable and institutional set-up for CEREEAC.
- Identify potential countries with an interest to host the CEREEAC Secretariat.

Our priority is to capture information on the value, functions and mandate of the CEREEAC, which are found in Section 2. Therefore, please treat this section as a priority if you are unable to complete the full questionnaire including the country assessment information in Section 3.

Your participation in this survey is greatly appreciated. Any comments and suggestions you provide will be invaluable to the design and successful operation of a centre that addresses the energy challenges facing countries in ECCAS. The project document which will be informed by the results of the survey (without identifying the authors of specific responses) and will be discussed in a validation workshop webinar to be held in 2020. Word forms are to be sent to: cereecac@gn-sec.net. Further information on the process is available at: <http://cereecac.gn-sec.net>.

¹ <http://cereecac.gn-sec.net>

² www.ecreee.org, www.sacreec.org, www.eacreee.org, www.rcreee.org



Your Details

| | |
|---|-----------------|
| Name: | |
| Organisation: | Country: |
| Telephone/Skype username: | |
| E-Mail: | |
| Area of expertise in Sustainable Energy: | |
| Date: | |

2. Value, Functions and Mandate of the CEREEAC Questions

2.1 Added Value of the CEREEAC

1. Do you think a specialised regional ECCAS centre to promote the uptake of RE and EE markets is needed and would add value?

- Yes
- No
- Depending on the scope of the mandate

Please justify your opinion focusing on how the centre could add value in the regional context:

Comments:

2.2 Key functions of the CEREEAC

2. Which key functions should the regional centre have? (please tick as many boxes as you wish)
- Set regional RE&EE targets and priorities to ensure equal progress among all ECCAS countries
 - Strengthen technical capacities of the ECCAS Secretariat to assist and advice Governments on key questions of the energy transformation
 - Address barriers for RE&EE more cost-effectively through joint coordination and cooperation on programs and projects
 - Set regional RE&EE policies, regulations and standards and support/monitor their national implementation
 - Promote economies of scale and business opportunities through the creation of harmonised markets for sustainable energy products and services
 - Set regional content requirements to promote the participation of local energy entrepreneurs in value chains of sustainable energy manufacturing and servicing
 - Coordinate international donor support in line with regional priorities and ensure coordination and synergy building
 - Act as regional focal point for international climate sustainable energy finance and assist countries in the development and implementation of programs and project proposals
 - Act as knowledge and information hub for the region



- Create opportunities for domestic companies and training institutes through regional programs and the creation of tailored financial facilities
- Promote the region as attractive place to invest in RE&EE
- Promote joint learning and knowledge exchange
- Other suggestions:

3. Is there anything the CEREEAC regional centre should not do?



2.3 Scope of technical mandate of the CEREEAC

4. Please indicate in which technology areas regional coordination and cooperation could add value.

| Technology Areas | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in this technology area | Please describe potential regional activities which could add value in this technology area | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREEAC |
|---|--|--|---|---|
| Renewable Energy (RE) | | | | |
| Utility scale solar PV (feeding into the grid or serving industrial facilities) | | | | |
| Utility scale Concentrated solar power (CSP) (feeding into the grid or serving industrial facilities) | | | | |
| Small to medium scale run-of-river hydro power (feeding into the grid or serving industrial facilities) | | | | |
| Large hydro power dams (beyond 100 MW electric capacity) (feeding into the grid | | | | |



| Technology Areas | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in this technology area | Please describe potential regional activities which could add value in this technology area | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREEAC |
|---|--|--|---|---|
| or serving industrial facilities) | | | | |
| Utility scale onshore wind power (feeding into the grid or serving industrial facilities) | | | | |
| Utility scale geothermal power and heat (feeding into the grid or serving industrial facilities) | | | | |
| Medium or large scale bioenergy (e.g. biogas, gasification, combustion) heat and power systems (feeding into the grid or serving industrial facilities) | | | | |
| Sustainable production and use of biofuels (incl. 3 rd generation) | | | | |



| Technology Areas | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in this technology area | Please describe potential regional activities which could add value in this technology area | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREAC |
|---|--|--|---|--|
| Ocean energy technologies incl. offshore-wind, floating PV, wave, tidal and ocean thermal energy conversion (OTEC) and sea-water cooling (SWAC) | | | | |
| Small-scale distributed solar PV systems (e.g. net-metering) feeding into the grid (auto-producers) & solar home systems for private households | | | | |
| Solar-thermal for warm water heating (e.g. tourism, clinics, households) and industrial process heat | | | | |
| Rural RE (hybrid) mini-grids/standalone systems (powered by one or various | | | | |



| Technology Areas | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in this technology area | Please describe potential regional activities which could add value in this technology area | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREAC |
|--|--|--|---|--|
| renewables e.g. PV, wind, micro-hydro) | | | | |
| Energy Efficiency (EE) | | | | |
| EE in power generation, transmission and distribution (technical losses) | | | | |
| EE to address commercial losses (electricity theft) | | | | |
| EE in the petroleum sector, particularly addressing the issues gas-flaring/capture | | | | |
| EE in buildings (e.g. standards) | | | | |
| EE appliances and labelling (e.g. standards for heating and cooling appliances) | | | | |



| Technology Areas | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in this technology area | Please describe potential regional activities which could add value in this technology area | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREEAC |
|---|--|--|---|---|
| EE lighting (e.g. standards) | | | | |
| EE in industrial processes and SMEs (e.g. standards, energy management systems) | | | | |
| Energy saving and consumer behaviour | | | | |
| Efficient transport/ fuel economy solutions (e.g. standards for fuel, vehicles) and electric mobility combined with RE uptake | | | | |
| Energy efficient cooking (incl. switch to improved biomass stoves, LPG or NLG) | | | | |
| Cross Cutting | | | | |



| Technology Areas | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in this technology area | Please describe potential regional activities which could add value in this technology area | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREAC |
|--|--|--|---|--|
| Innovative industry 4.0 and digitalisation technologies in RE&EE (e.g. blockchain, internet of things) | | | | |
| Innovative business models (e.g. rural energy services, grid-to-vehicle and vehicle-to-grid services) | | | | |
| Battery and other storage systems | | | | |
| Sustainable cities (e.g. low-carbon urban development) | | | | |

*Government institution, university, research centre, Non-Governmental Organisation (NGO), development partner, etc.



5. Please explain which regional interventions/services of the CEREAC would be a priority for your country/institution/company

| Regional Interventions/Services | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in the areas of intervention / please distinguish between RE and EE when completing this question. | Please describe potential regional activities in this area of intervention / please distinguish between RE and EE when completing this question. | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREAC |
|---|--|---|--|--|
| Improved policy and regulatory frameworks conducive for RE&EE market uptake and investment | | | | |
| Coordinate and harmonise regional donor and country activities, avoid duplication and create synergies on technical levels | | | | |
| Define regional RE&EE targets and priorities and assist ECCAS countries in the implementation and monitoring | | | | |
| Create regional RE policies, regulations and (quality) standards and support countries in national implementation (e.g. fiscal and non-fiscal RE incentives, net- | | | | |



| Regional Interventions/Services | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in the areas of intervention / please distinguish between RE and EE when completing this question. | Please describe potential regional activities in this area of intervention / please distinguish between RE and EE when completing this question. | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREAC |
|---|--|---|--|--|
| metering, equipment standards) | | | | |
| Create regional EE policies, regulations and (quality) standards and support countries in national implementation (e.g. MEPS, fuel and vehicle standards) | | | | |
| Advocacy and work to aim to reduce market distortion barriers (e.g. reduction of subsidies on fossil fuels) | | | | |
| Provide evidence-based advice to Governments, financial institutions, private sector and financiers/investors | | | | |



| Regional Interventions/Services | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in the areas of intervention / please distinguish between RE and EE when completing this question. | Please describe potential regional activities in this area of intervention / please distinguish between RE and EE when completing this question. | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREAC |
|---|--|---|--|--|
| Enhanced qualification, innovation and certification frameworks for RE&EE personal, products and services | | | | |
| Establish a regional framework for qualification and certification of RE&EE personnel, services and products and assist Governments and national institutes in the implementation | | | | |
| Strengthen the capacities of women in the sustainable energy sector (gender mainstreaming) | | | | |
| Promote regional training/train-the-trainer programs on RE&EE priority issues and convene implementation networks comprising national and | | | | |



| Regional Interventions/Services | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in the areas of intervention / please distinguish between RE and EE when completing this question. | Please describe potential regional activities in this area of intervention / please distinguish between RE and EE when completing this question. | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREAC |
|--|--|---|--|--|
| international institutes and businesses | | | | |
| Promote the creation of regional applied research and technology innovation networks, technology clusters and joint programs, involving national institutions and businesses | | | | |
| Enhanced knowledge, information and data management, as well as awareness raising | | | | |
| Establish a regional RE&EE information system which provides data and analytics to the public and private sector | | | | |
| Develop practical knowledge products, policy briefs, lessons learned, tools and | | | | |



| Regional Interventions/Services | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in the areas of intervention / please distinguish between RE and EE when completing this question. | Please describe potential regional activities in this area of intervention / please distinguish between RE and EE when completing this question. | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREAC |
|---|--|---|--|--|
| model templates which can be used by public and private key stakeholders in all countries | | | | |
| Organise regional conferences, meetings and capacity building workshops on RE&EE priority issues and solutions | | | | |
| Regional awareness raising and campaigns on RE&EE issues and solutions | | | | |
| Convene national key stakeholders and provide project development and implementation support regional programs and projects | | | | |



| Regional Interventions/Services | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in the areas of intervention / please distinguish between RE and EE when completing this question. | Please describe potential regional activities in this area of intervention / please distinguish between RE and EE when completing this question. | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREAC |
|---|--|---|--|--|
| Promotion of RE/EE for access to modern, affordable and reliable energy services in rural and peri-urban areas | | | | |
| Facilitate south-south and north-south knowledge and technology cooperation with other regions through the Global Network of Regional Sustainable Energy Centers (GN-SEC) | | | | |
| Improved access to RE&EE finance and innovative business models | | | | |
| Establish a user-friendly investment portal showcasing RE&EE investment and business opportunities to potential investors and financiers (to be published through the information system) | | | | |



| Regional Interventions/Services | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in the areas of intervention / please distinguish between RE and EE when completing this question. | Please describe potential regional activities in this area of intervention / please distinguish between RE and EE when completing this question. | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREAC |
|--|--|---|--|--|
| Organize regular finance forums to promote match-making between project promoters, technology providers, investors and financiers. | | | | |
| Support countries in the development of bankable RE&EE projects through a Project Preparation Facility | | | | |
| Support countries in the development of climate mitigation programs to be submitted to international climate funds (e.g. GEF, GCF) | | | | |
| Regional programs, funding and policy mechanisms and networks to promote domestic RE&EE entrepreneurship and | | | | |



| Regional Interventions/Services | Indicate up to 10 priorities, ranking them 1 to 10 in order of priority (1 being the highest priority) | Please describe the specific needs of your country in the areas of intervention / please distinguish between RE and EE when completing this question. | Please describe potential regional activities in this area of intervention / please distinguish between RE and EE when completing this question. | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREAC |
|---|--|---|--|--|
| innovation (e.g. consulting, manufacturing, installation, maintenance) | | | | |
| Assist in the creation of regional/national financial mechanisms and incentive schemes for the promotion of RE/EE (e.g. feed in tariff, micro-credits, revolving funds) | | | | |

*Government institution, university, research centre, Non-Governmental Organisation (NGO), development partner, etc.



6. Please prioritise the sectors for RE/EE interventions

| Sectors | From 1 to 5, (with 5 being very high priority, and 1 being not a priority),how would you rate this technology area for your country. | Please describe the specific needs of your country in the sector / please distinguish between RE and EE when completing this question. | Please describe potential regional activities in this sector / please distinguish between RE and EE when completing this question. | For those areas indicated, please suggest 1-2 key partners* in the country who will be relevant to collaborate with the CEREEAC |
|---------------------------------------|--|--|--|---|
| Industrial sector | | | | |
| Commercial Sector | | | | |
| Agricultural sector | | | | |
| Transport sector | | | | |
| Residential sector (towns and cities) | | | | |
| Off-grid household and cooking sector | | | | |

*Government institution, university, research centre, Non-Governmental Organisation (NGO), development partner, etc



7. **In which areas CEREEAC should not work as it is already covered on national level or by other ECCAS institutions, programmes or projects?** (Please name which institutions are covering those areas and indicate their main function and headquarter location)
8. **How do you see the Centre assisting with the current and future RE and EE efforts in your country?** (Please comment on the potential synergies or the added value of CEREEAC to your organisation's/country's effort to promote sustainable energy)
9. **Which measures/actions could bring faster results and increase confidence in CEREEAC in the short-term?**
(For example: providing capacity building courses in country to support existing projects. This would show competency by the centre and allow the centre to access funding to implement a higher number of activities in the medium term)

2.4 Institutional Design of the Centre

10. **Do you agree with the current name of the proposed centre, the 'Centre for Renewable Energy and Energy Efficiency of Central Africa', which in French is the 'Centre Pour Les Energies Renouvelables et Efficacité Energétique de L'Afrique Centrale (CEREEAC)'. The acronym by which the centre will be referred to is CEREEAC.**

- Yes
- No

If 'No' please suggest your preferred name:

11. **In your opinion how should the Centre be set-up?**

- As an independent organisation hosted by an CEREEAC country
- As an independent organisation hosted by an existing regional organisation having a regional outreach
- Other set-up:

12. **Please suggest countries and/or organisations to host such a regional centre?**
(Please consider the advantage of sharing already built competences and the potential for regional outreach across ECCAS, the security, facility of access, willingness of country to host the centre.
Note: there will be a further transparent and fair selection process outlined and undertaken to select the host of the CEREEAC, this question is to gauge opinion.)

1st Preference:

2nd Preference:

3rd Preference:

- Do not have an opinion



13. FOR GOVERNMENT REPRESENTATIVES ONLY: Would your country be willing to host the Centre?
 (Note: there will be a further transparent and fair selection process outlined and undertaken to select the host of the CEREEAC, this question is to try to understand your country’s willingness to host the Centre.)

- Yes
- No
- Unsure

Further Details:

14. FOR GOVERNMENT REPRESENTATIVES ONLY: Would your country be willing to provide limited in-kind and financial support to the centre? (Note: there will be a further transparent and fair selection process outlined and undertaken to select the host of the CEREEAC, this question is to try to understand your country’s willingness to host the Centre.)

- Yes, cash (annual financial contributions to the centre) of more than 70.000 EURO
- Yes, cash (annual financial contributions to the centre) of less than 70.000 EURO
- Yes, in-kind (e.g. focal point in the Ministry, training and conference venues)
- No

Further Details:

15. How can it be ensured that CEREEAC responds to the needs of ECCAS countries?

16. In your view which stakeholders should be represented in the governing bodies of the centre?

3. Country Assessment Questions

3.1 Country Situation

17. In your opinion what are the most reliable sources of information regarding the RE & EE potential in your country? (Please also include household energy and energy for cooking)

| Focus Area | Study title and date | Website | Contact Person or Author |
|------------|----------------------|---------|--------------------------|
| | | | |
| | | | |
| | | | |

(Please add rows if necessary)



18. In the table below, please list any relevant private sector actors in energy matters in your country.
(NGOs, Energy Supply Companies (ESCOs), business associations, equipment manufacturers, financial institutions, etc.)

| Organisation/ Institution/companies | Address | Contact Person | E-mail | Telephone/Skype | Describe their role |
|--|---------|-------------------|--------|-----------------|------------------------|
| | | | | | |
| | | | | | |
| | | | | | |

(Please add rows if necessary)

19. Which educational institutions/organisations are offering specialized trainings or educational programs in the RE/EE sector in your country?

| Organisation/ Institution | Address | Contact Person | E-mail | Telephone/Skype | Describe focus of program/trainings (e.g. financing, installation) |
|------------------------------|---------|-------------------|--------|-----------------|---|
| | | | | | |
| | | | | | |
| | | | | | |

(Please add rows if necessary)

20. Which regional or international organisations/donors are financing RE and EE projects in your country? Please answer using the table below.

| Organisation/ Institution | Address | Contact Person | E-mail | Telephone/Skype | Describe their role |
|------------------------------|---------|-------------------|--------|-----------------|---------------------|
| | | | | | |
| | | | | | |
| | | | | | |

(Please add rows if necessary)

21. Thinking back on your country's experience with RE&EE promotional activities...
(e.g. law & regulations, subsidies, capacity building, access to finance)

| ...which have been the most successful promotional activities? | ...which have been the main challenges impeding RE&EE development? |
|--|--|
| | |
| | |
| | |

(Please add rows if necessary)

22. Can you think of an area where your country has been quite successful, in a way that would lend itself to sharing experiences with other ECCAS countries? If yes, please describe and explain:

23. Are there any success stories arising from RE&EE activities / implementation in other Sub-Saharan African countries (in ECCAS or otherwise) that you would like to learn from? If yes, please provide details:

3.2 Promotion of Renewable Energy (RE)

24. Which of the **capacity building** activities below have been implemented in your country to assist with the deployment of RE technologies and services?

| Activities | Please provide details of actions and implementing institutions |
|---|---|
| Scholarships for BSc and Master, Ph.D. programs at universities | |
| Hands on training for developers and/or installers of RE | |
| Certification program for RE professionals/installers | |
| Capacity building on Clean Development Mechanism (CDM) and carbon finance | |
| Capacity building for the business sector relating to RE | |
| Capacity building for the utility or rural electrification agencies | |
| Consumer awareness programme on RE | |
| National online portal to disseminate information related to RE | |

(Please add rows if necessary)

25. Which of the **financial incentives / financing mechanisms** below are currently in place for energy users to support implementation of RE technologies in your country?

| | (yes/no) | Please provide details of any laws, regulations and/or strategies |
|--|----------|---|
| Capital subsidy, grant or rebate for RE installations | (yes/no) | |
| Tax credits for Investments in RE | (yes/no) | |
| Reductions or tax exemptions for taxes on sales for RE equipment | (yes/no) | |
| Reductions or exemptions for import duties on RE components | (yes/no) | |
| Production tax credits (e.g. for biofuel production) | (yes/no) | |

| | | |
|---|----------|--|
| RE fund/ credit lines at the national level | (yes/no) | |
| Commercial loans for RE projects | (yes/no) | |
| Country approved CDM project or a project under GCF or GEF to support RE activities | (yes/no) | |
| Competitive public bidding | (yes/no) | |
| Feed-in Tariff/premium payment | (yes/no) | |

(Please add rows if necessary)

26. Which of the policy/ regulatory/ programmes/ support mechanisms below are currently in place to promote RE projects in your country?

| | (yes/no) | Please provide details of policies, laws, regulations, strategies and/or action plans |
|--|----------|---|
| National targets for RE | (yes/no) | |
| RE targets for rural areas | (yes/no) | |
| National RE Investment Action Plan with priority projects | (yes/no) | |
| Power Purchase Agreements and enabling environment for IPPs | (yes/no) | |
| Electric utility RE quota obligation | (yes/no) | |
| Competitive public bidding | (yes/no) | |
| Net metering and other energy production payments | (yes/no) | |
| Energy certification (including RE) for buildings | (yes/no) | |
| Demand side management and/or pre-payment models by the electricity provider | (yes/no) | |
| Subsidies by utilities for the purchase or import of RE equipment | (yes/no) | |
| Public investment, loans or grants | (yes/no) | |
| Incentives for start-up companies (e.g. grants) | (yes/no) | |
| Penalties for non-compliance in any of the above standards/ guidelines | (yes/no) | |



| | | |
|--|----------|--|
| Rural electrification schemes (e.g. concessions for solar mini-grids) | (yes/no) | |
| Finance payment Guarantees | (yes/no) | |
| Penalties for non-compliance in any of the above standards/ guidelines | (yes/no) | |

(Please add rows if necessary)

27. Please list any major ongoing or planned RE programs, projects or activities in your country.

(E.g. If a proposal for support from the Green Climate Fund is developed or under development, this may be entered here. A significant volume of potential projects can, in theory, attract investors as it ensures the continuity of their activities in the country)

| Name of program/project | Focus/ Description | Implementing partners and financiers | Contact | Description of possible synergies or added value to potential CEREAC activities |
|-------------------------|--------------------|--------------------------------------|---------|---|
| | | | | |
| | | | | |
| | | | | |

(Please add rows if necessary)

28. What challenges/ barriers, in your opinion, are there currently that are impeding the development of RE in your country?

| Type of challenges/ barriers | Please mention the specific barriers |
|------------------------------|--------------------------------------|
| Institutional | |
| Policy & regulatory | |
| Market | |
| Financing | |
| Informational | |

(Please add rows if necessary)

29. Is there a pipeline of bankable projects or potential priority investment/demonstration projects in your country in the RE sector, yet to be funded? Could you please provide details and contacts? (E.g. if a proposal for support from the Green Climate Fund is developed or under development, this may be entered here.)

| Name of program/project | Focus/Description | Implementing partners (if any) | Contact |
|-------------------------|-------------------|--------------------------------|---------|
| | | | |
| | | | |

3.3 Promotion of Energy Efficiency (EE)

For the purposes of this questionnaire, the scope of EE includes but is not limited to the following:

- a. industrial EE
- b. building EE
- c. energy efficient transportation
- d. energy efficient cooling
- e. energy efficient cooking
- f. electric mobility
- g. digitalization for EE
- h. use of solar thermal for cooling & heating

30. Which of the capacity building activities below have been implemented in your country to assist with the deployment of EE technologies and services?

| Activities | Please provide details of actions and implementing institutions |
|--|---|
| Scholarships for BSc and Master, Ph.D. programs at universities. | |
| Consumer awareness program on the benefits of energy conservation measures | |
| Capacity building for the business sector (industrial and commercial) relating to EE | |
| Hands on training for EE installers and/ or service providers | |
| Promotional campaigns for facilitating EE Market | |

| | |
|--|--|
| Training and / or certification program for EE professionals | |
| National online portal to disseminate information related to EE | |
| Institutional capacity building program targeted at specific industrial sectors (such as mining) | |

(Please add rows if necessary)

31. Which of the financial incentives/ financing mechanism below are currently in place for energy users to support implementation of EE technologies in your country?

| | (Yes/No) | Please provide details |
|---|----------|------------------------|
| Capital subsidy, grant or rebate for EE installations | (yes/no) | |
| Tax credits for investments in EE | (yes/no) | |
| Reductions or tax exemptions for taxes on sales for EE equipment | (yes/no) | |
| Reductions or exemptions for import duties on EE components | (yes/no) | |
| EE fund/ credit lines at the national level | (yes/no) | |
| Energy saving performance contracts | (yes/no) | |
| Commercial loans for EE projects | (yes/no) | |
| Electric utility led incentives such as On-bill financing for adopting EE | (yes/no) | |
| Financial scheme to support promotion of energy efficient cooling systems | (yes/no) | |
| Country approved CDM project or a project under GCF or GEF to support EE activities | (yes/no) | |

(Please add rows if necessary)

32. Which of the policy/ regulatory/ programmes/ support mechanisms below are currently in place to promote EE projects in your country?

| | (Yes/ No) | Please provide details of policies, laws, regulations, strategies and/or action plans |
|--|-----------|---|
| National EE action plan | (yes/no) | |
| National targets for EE | (yes/no) | |
| EE targets for rural areas (including efficient cooking stoves) | (yes/no) | |
| Designated EE agency | (yes/no) | |
| EE position paper or guideline at regional (ECCAS) level | (yes/no) | |
| EE law/ policy / regulation / guideline | (yes/no) | |
| A guideline or code for Building EE | (yes/no) | |
| A transportation Master Plan to make the current transport system more energy efficient, - whether in place or under development | (yes/no) | |
| Fuel efficiency standards for road vehicles | (yes/no) | |
| Any national or regional level programme to promote electric vehicles | (yes/no) | |
| National database or national reporting system to periodically track and report the EE metrics across all sectors | (yes/no) | |
| Electric utility EE quota obligation (similar to RE Purchase Obligation) | (yes/no) | |
| National level promotional plans for EE lighting | (yes/no) | |
| National or product-specific EE standards and/ or labelling program for appliances (e.g. Lighting, Air conditioners, Improved cook stoves) | (yes/no) | |
| EE mandates for large energy users | (yes/no) | |
| EE mandates for small and medium size enterprises | (yes/no) | |

| | | |
|--|----------|--|
| Standards for power factor maintenance in industries | (yes/no) | |
| Promotion of digitalization practices such as Industrial energy management systems, Intelligent building energy management systems, Smart Meters to promote EE | (yes/no) | |
| Programme to encourage Demand Side Management (DSM) | (yes/no) | |
| Programme to promote solar thermal systems for households, commercial (hotels) and industrial uses | (yes/no) | |
| EE guidelines for intensive / key industries such as mining | (yes/no) | |
| Standards for power quality (i.e. voltage, harmonics, power loss) in transmission & distribution grid | (yes/no) | |
| Penalties for non-compliance in any of the above standards/ guidelines | (yes/no) | |

(Please add rows if necessary)

33. Please list any major ongoing or planned EE programs, projects or activities in your country. (E.g. If a proposal for support from the Green Climate Fund is developed or under development, this may be entered here. A significant volume of potential projects can, in theory, attract investors as it ensures the continuity of their activities in the country)

| Name of program/project | Focus/ Description | Implementing partners and financiers | Contact | Description of possible synergies or added value to potential CEREEAC activities |
|-------------------------|--------------------|--------------------------------------|---------|--|
| | | | | |
| | | | | |

(Please add rows if necessary)

34. What challenges/ barriers, in your opinion, are there currently that are impeding the development of EE in your country?

| Type of challenges/ barriers | Please mention the specific barriers |
|------------------------------|--------------------------------------|
| Institutional | |
| Policy & regulatory | |
| Market | |



| | |
|---------------|--|
| Financing | |
| Informational | |

(Please add rows if necessary)

- 35. Is there a pipeline of bankable projects or potential priority investment/demonstration projects in your country in the EE sector, yet to be funded? Could you please provide details and contacts?**
(E.g. if a proposal for support from the Green Climate Fund is developed or under development, this may be entered here.)

| Name of program/project | Focus/Description | Implementing partners (if any) | Contact |
|-------------------------|-------------------|--------------------------------|---------|
| | | | |
| | | | |

- 36. Do you have any comments or suggestions on any issues that you feel were not covered by the questionnaire?**

END OF QUESTIONNAIRE