



Global Network of Regional Sustainable Energy Centers and Possible Contribution to Data Collection

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UNIDO's Mandate: Inclusive & Sustainable Industrial Development (ISID)

Thematic Areas:



**Poverty Reduction
Through Productive
Activities**



**Trade Capacity
Building**



**Energy and
Environment**

Achieving **equitable & sustainable** social, economic and environmental growth while mainstreaming women and youth.





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UNIDO's Energy Programme

Promoting sustainable energy solutions for productive capacities, industrial competitiveness and job creation



**Industrial
Energy
Efficiency**



**Renewable
Energy for
Productive
Uses**



**Low-Carbon
Low
Emission
Technologies**



**Climate
Policy,
Partnership
and Global
Forums**

UNIDO supports regional organizations in the creation and operation of regional sustainable energy centres



RCREEE
Regional Center for Renewable Energy and Energy Efficiency
المركز الإقليمي للطاقة المتجددة وكفاءة الطاقة

Austrian
Development Cooperation





RCREEE

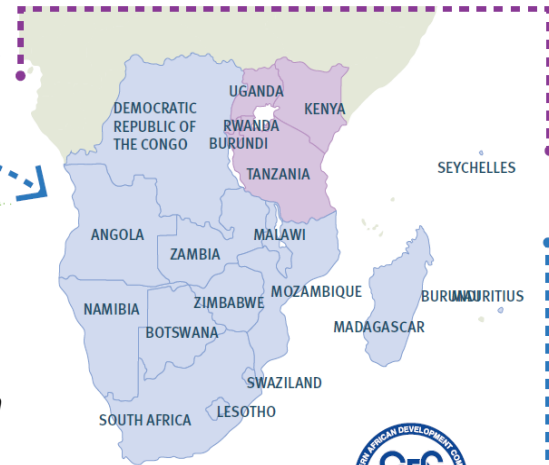
Regional Center for Renewable Energy and Energy Efficiency
المركز الإقليمي للطاقة المتجددة وكفاءة الطاقة



SPC
Secretariat
of the Pacific
Community



- Sub-network Africa
- Sub-network SIDS
- Upcoming LAC network





Global network as facilitator for the implementation of Global Agreements on Energy and Climate Change

Post 2015 Development Agenda leading to SDGs

- Energy recognized as a SDG
- Inclusive and Sustainable Industrial Development (ISID) part of SDG on Energy

International Climate Agreement 2015

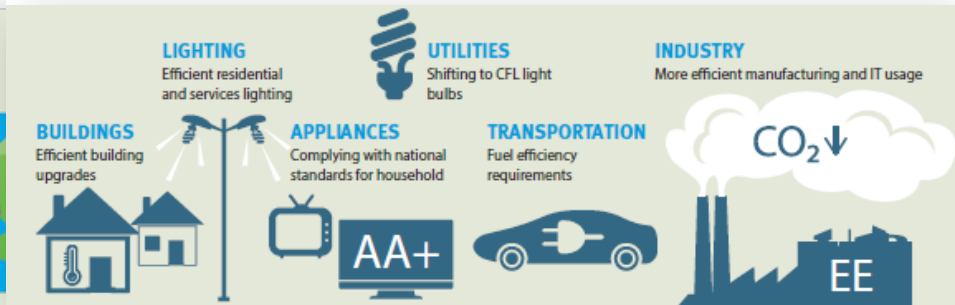
- Energy linking to Climate change
- Nexus of Energy-Water-Food-Health impacting Climate Change

Sustainable Energy for All (SE4ALL) Goals

- Regional Centers
- Accelerator Programmes on Industrial Energy Efficiency and Renewable Energy
- High Impact Opportunities

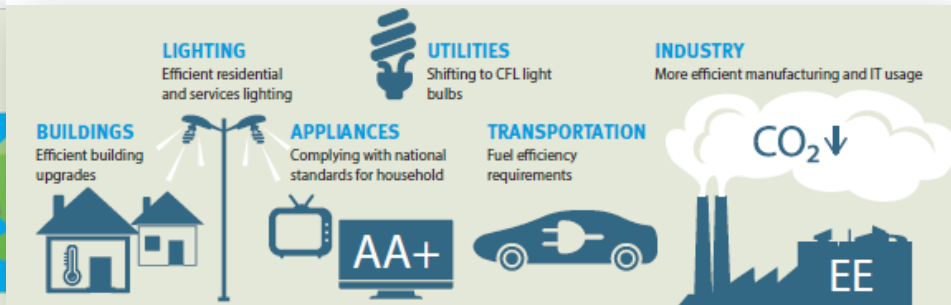
Assumptions and rationale

- **Assist countries to translate adopted sustainable energy policies and targets into real investments, markets and business**
- **“Leave nobody behind” and address common barriers more effective through regional exchange and methodologies**
- **Strengthen regional support frameworks, technical capacities and knowledge management to take ownership and leadership in the energy sector**
- **Address the “Missing link” between global energy agenda and climate commitments and implementation at the national level**



Impacts and Results

- Strengthened regional cooperation and collaboration on sustainable energy policies, technologies and markets
- Promoting economies of scale and reducing transactional costs of sustainable energy projects and programmes
- Supporting programmatic approach over project by project interventions
- Linking sustainable energy with development, productive capacities and job opportunities through regional programmes (gender, south south cooperation and strategic partnerships)





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Accelerate and complement national efforts through regional interventions – incl. data collection





UNIDO's support model is implemented in three phases:

Preparatory Phase

Consultative needs assessment undertaken

A project document on the technical and institutional design developed

Consultative and validation workshops organized

Initial funding for the first operational phase mobilized

Approval of the project document and establishment of the Centre by Energy Ministers

1st Operational Phase

Selection of a host country/ organization

Selection of the Director and recruitment of local and international quality staff

Establishment of the Centre's Secretariat, its institutional structure and internal proceedings (staffing, finance, accounting, procurement)

Organization of the governing meetings and establishment of the National Focal Institutions (NFIs)

Development of a long-term Business Plan

Development and the start of implementation of RE&EE flagship programs and projects

Continued fundraising

Preparing for independent work without UNIDO's institution-building support

2nd Operational Phase

Further consolidation of the institutional structures and expansion of technical program portfolio based on an external evaluation

The Centre starts to implement major donor-funded RE&EE programs and projects

Partnership with UNIDO transforms into a partnership for project execution

If necessary, UNIDO continues to provide limited capacity-strengthening support to the Centre





Guiding Principles of the Regional Sustainable Energy Centers:

- ☐ Tailored to the individual needs of the region**
- ☐ Demand-driven and ownership**
- ☐ High level legitimacy**
- ☐ Well integrated and use of local systems**
- ☐ Small is beautiful and form follows function**
- ☐ Network of national focal institutions and partners**
- ☐ Checks and balances**
- ☐ Financial sustainability**





PEOG and PEAG



PCREEE Executive Board (EB)



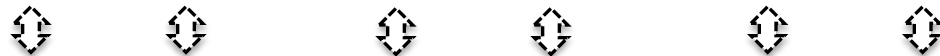
PCREEE Secretariat (based in the Kingdom of Tonga)



National Focal Institutions (NFIs)

Thematic Hubs (THs)

Target Groups (e.g. policymakers, developers, utilities, SMEs, civil society)



Final Beneficiaries in the Pacific

Oversight on PCREEE operations: provision of strategic guidance and ensure coherence; monitoring of PCREEE performance; appoint the executive director and external evaluators;

Technical review and approval of major planning and execution documents (e.g. business plan, work plans & budget, status and other technical documents); review procurements and co-funded projects above a certain level;

Preparation and execution of business plan, annual work plans and budgets; preparation of annual status reports; develop, coordinate, co-fund and execute activities; preparation and execution of tenders and call for proposals; appraisal and contracting of projects;

National Focal Institutions (NFIs) and Thematic Hubs (HBs) - Participate actively in the identification, appraisal, execution and monitoring of projects and activities of PCREEE; provide data and information on the national RE&EE sector;



ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE)

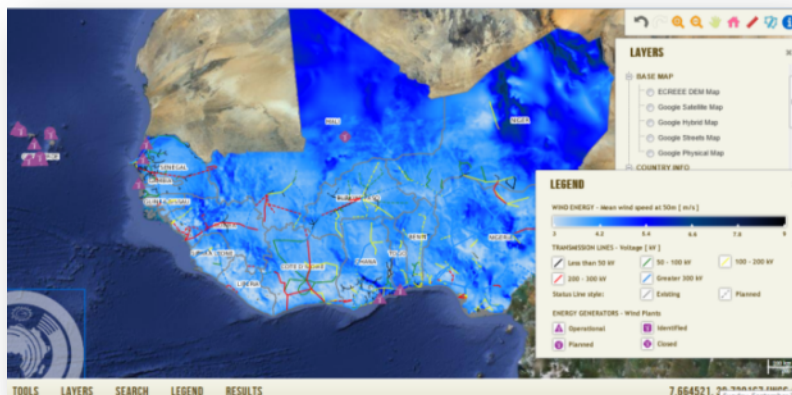
- Specialized Agency of the Economic Community of West African States (ECOWAS) to promote RE&EE
- Covering 15 Member States and 300 million energy consumers
- Established in 2010 with support of UNIDO, Austria and Spain
- Secretariat in Praia, Cape Verde
- Concrete GEF funded Projects





ECOWAS RE&EE Observatory (www.ecowrex.org)

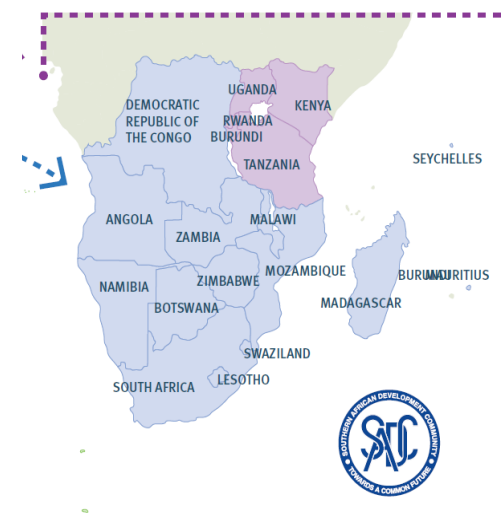
- ❑ RE&EE market data for investors and developers
- ❑ GIS Maps on RE potentials, and other planning data (e.g. lines, roads, existing and planned stations and systems)
- ❑ Ongoing Initiatives (e.g. GEF, ACP-EU Facility, ECREEE)
- ❑ Country profiles and statistics
- ❑ Document library (e.g. studies, policies, project documents)





Southern African Centre for Renewable Energy and Energy Efficiency (SACREEE)

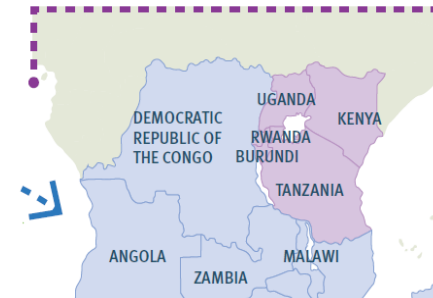
- The Southern African Development Community (SADC) comprises 15 Member States and represents 280 million energy consumers.
- At the 32nd SADC Ordinary Summit in Maputo, Mozambique, the Ministers of Energy directed the SADC Secretariat to create a regional sustainable energy centre.
- A baseline report and a needs assessment on the technical and institutional design of the Centre were prepared.
- The design of the Centre was validated by all Ministries of Energy during a consultative workshop held from 14 to 15 March 2013 in Kempton Park, South Africa, and at a validation workshop held from 18 to 19 July 2013, in Gaborone, Botswana
- On 24 July 2015 the SADC Ministers responsible for Energy approved SACREEE and nominated Namibia as the host country of the Secretariat of the centre.





East African Centre for Renewable Energy and Energy Efficiency (EACREEE)

- The East African Community (EAC) represents a growing population of 133 million energy consumers.
- At the 7th and 8th meetings of the Sectoral Council on Energy, the governments directed the EAC Secretariat to move forward to establish a regional sustainable energy centre.
- A RE&EE baseline report and a needs assessment on the technical and institutional design of the Centre were developed.
- The EACREEE design was validated successfully during an inception workshop, held from 11 to 12 March 2013 in Arusha, Tanzania, and a final workshop, held from 6 to 7 May 2013 in Kampala, Uganda.
- EACREEE was approved by the Ministers of Energy during the 9th Meeting of the EAC Sectoral Council on Energy, 21 April 2014 in Nairobi, Kenya.
- In September 2015 the EAC Sectoral Council on Energy approved Kampala, Uganda, as the host country of EACREEE.





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Caribbean Centre for Renewable Energy and Energy Efficiency (CCREEE)

- Preparatory process with SIDS DOCK and CARICOM
- Needs assessment and project document on the design of the centre finalized
- Validation workshop, held from 21 to 22 July 2014 in Dominica
- CCREEE approved by the Ministerial COTEDs on Energy and Environment in Nov. 2014 and Feb. 2015
- The 36th Regular Meeting of CARICOM Heads of Government, held at Bridgetown, Barbados, 2-4 July 2015, endorsed the creation of CCREEE and confirmed Barbados, as the host country.
- Inauguration of the centre took place on 28 October 2015 in Barbados





Pacific Centre for Renewable Energy and Energy Efficiency (PCREEE)

- Preparatory process in partnership with SPC and SIDS DOCK
- Needs assessment and project document on the design of the centre finalized
- Validation workshop, held from 12 to 13 March 2014, in Fiji, Nadi
- Endorsement of PCREEE at the Meeting of Pacific Ministers of Energy and Transport, 2 to 4 April 2014, in Nadi, Fiji
- In September 2015, SPC was confirmed as the host for PCREEE by the Pacific Ministers of Energy.
- To be hosted by the Kingdom of Tonga under the SPC framework
- Planned inauguration in August 2016





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Women's Empowerment and Gender Mainstreaming

Best practice project

Empowering women beer brewers using energy efficient stoves in

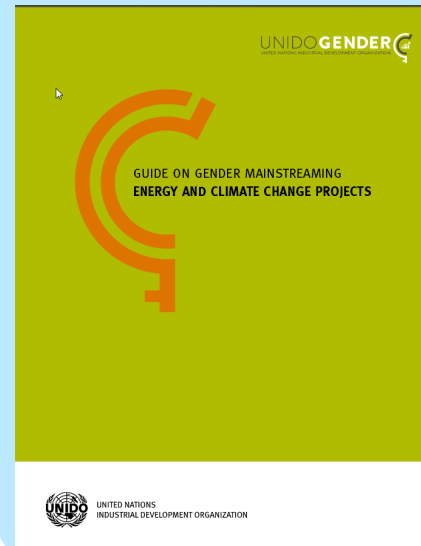
Burkina Faso

- Technical assistance to 1,600 women entrepreneurs
- Increased profits achieved by a 40-50% reduction in the amount of firewood consumed
- Foster women's access to financial institutions/ business and knowledge gateways
- Improvements to the health and environmental conditions



Publications

- 1- Sustainable Energy for all: the Gender Dimensions (UNIDO-UN Women joint publication)
- 2- Energy-Gender Mainstreaming Guide (UNIDO publication)





Public Private Partnerships

Transformational Partnerships

Multiple stakeholder coalitions

Catalyst for change to overcome development challenges

Strategic Partnerships

Multilateral donors
Bilateral donors
Private Sector

Optimize / increase impacts on local producers & development

Knowledge Partnerships

Institutions incl. universities & research institutes

Provision of best practices, norms and implementation support





South-South Cooperation

Technology Transfer and Knowledge Management

1. India (UCSSIC)-Benin-Nigeria: Biomass gasification technology
2. India(UCSSIC)- Bangladesh: Solar Micro-utility enterprises for promoting rural energy and productive uses
3. South Korea-Ghana: Supporting green industrial development through biogas technology and business for sustainable growth
4. China (International Centre for Small hydro Power and International Solar Energy Center): Renewable Energy based electricity Generation for Isolated Mini Grids in Zambia, Sierra Leone, Nigeria, LAC region
5. Brazil – Africa (International Biogas Centre, Itaipu): SADC, ECOWAS and EAC





Potential future activities in cooperation with REN21

- **Similar data collection and quality challenges in all regions**
- **Regional efforts to improve data collection and quality in most regions underway but underfinanced or with low impact**
- **Strengthen ownership in REN-21 regional reports through the centres**
- **Combine REN-21 reports with capacity development activities of centres for national statistic units**
- **Establishment of web-based data information systems (RE &EE Observatory) to be aligned with IEA or other data collection systems**
- **Regular data exchange and sharing of information on best practices**



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Thank You

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