



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



SUSTAINABLE DEVELOPMENT GOAL 9
INDUSTRY, INNOVATION AND INFRASTRUCTURE

The ECO Clean Energy Centre and the Global Network of Regional Sustainable Energy Centers

“driving the energy transition from the region for the region”

Martin Lugmayr, UNIDO, GN-SEC Coordinator





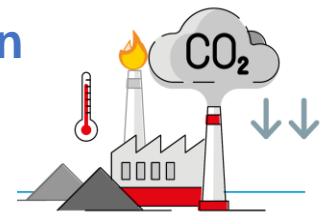
Regional accelerators for the energy and climate transition

- Owned by and part of the integration efforts of the economic communities
- Eight operating centers covering 108 countries, incl. most LDCs and SIDS
- Influencing the energy futures for more than 1,2 billion consumers
- New centers in the pipeline – Central Africa and **Central Asia**
- Agreements with OLADE and ASEAN envisaged
- High level approval by Ministers and/or Heads of State
- Accountable to the region and members states
- Working through National Focal Institutions
- Hubs for local and international partnerships



- **Sub-Network Africa and Arab:** SADC, EAC, ECOWAS, ECCAS (new), Arab League
- **Sub-Network Latin America and Caribbean:** SICA, CARICOM
- **Sub-Network Asia and Pacific:** ICIMOD, SPC, **ECO (new)**

Regional public climate infrastructure from the region for the region



CCREEE
CARIBBEAN CENTRE FOR RENEWABLE ENERGY AND ENERGY EFFICIENCY

CCREEE (Caribbean Centre for Renewable Energy and Energy Efficiency)
Bridgetown, Barbados

Antigua and Barbuda, Barbados, Bahamas, Belize, Dominica, Grenada, Guyana, Haiti, Jamaica, Saint Kitts and Nevis, Saint Lucia, Montserrat, Suriname, Trinidad and Tobago, Saint Vincent and the Grenadines

SICREEE
SICA CENTRE FOR RENEWABLE ENERGY AND ENERGY EFFICIENCY

SICREEE (SICA Centre for Renewable Energy and Energy Efficiency)
El Salvador

Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, Panama, Belize, Dominican Republic

ECREEE
ECOWAS CENTRE FOR RENEWABLE ENERGY AND ENERGY EFFICIENCY

ECREEE (ECOWAS Centre for Renewable Energy and Energy Efficiency)
Praia, Cape Verde

Benin, Burkina Faso, Cabo Verde, Cote d'Ivoire, Gambia, Ghana, Guinea, Guinea Bissau, Liberia, Mali, Niger, Nigeria, São Tomé and Príncipe, Senegal, Sierra Leone, Togo

olade ORGANIZACIÓN LATINOAMERICANA DE ENERGÍA

RCREEE
REGIONAL CENTRE FOR RENEWABLE ENERGY AND ENERGY EFFICIENCY FOR THE ARAB REGION

RCREEE (Regional Centre for Renewable Energy and Energy Efficiency) for the Arab region
Cairo, Egypt

Algeria, Bahrain, Djibouti, Egypt, Iraq, Jordan, Kuwait, Lebanon, Libya, Mauritania, Morocco, Palestinian Authority, Somalia, Sudan, Syria, Tunisia, Yemen

ECO Centre for Renewable Energy and Energy Efficiency

UNDER CONSTRUCTION

Afghanistan, Azerbaijan, Iran, Kazakhstan, Kyrgyzstan, Pakistan, Tajikistan, Turkey, Turkmenistan and Uzbekistan

REEECH
RENEWABLE ENERGY AND ENERGY EFFICIENCY CAPABILITY FOR THE HINDUKUSH-HIMALAYA

REEECH (Renewable Energy and Energy Efficiency Capability for the Hindukush-Himalaya)
Kathmandu, Nepal

Afghanistan, Bangladesh, Bhutan, China, India, Myanmar, Nepal, Pakistan

EACREEE
EAC CENTRE FOR RENEWABLE ENERGY AND ENERGY EFFICIENCY

EACREEE (EAC Centre for Renewable Energy and Energy Efficiency)
Kampala, Uganda

Kenya, Tanzania, Uganda, Burundi, Rwanda, South Sudan

ECCAS Centre for Renewable Energy and Energy Efficiency

UNDER CONSTRUCTION

Angola, Burundi, Cameroun, Centrafrique, Congo, RD Congo, Gabon, Guinée Equatoriale, Rwanda, Sao Tomé et Príncipe, Tchad

SACREEE
SADC CENTRE FOR RENEWABLE ENERGY AND ENERGY EFFICIENCY

SACREEE (SADC Centre for Renewable Energy and Energy Efficiency)
Windhoek, Namibia

Angola, Botswana, Democratic Republic of Congo, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Seychelles, South Africa, Swaziland, Tanzania, Zambia, Zimbabwe

PCREEE
PACIFIC CENTRE FOR RENEWABLE ENERGY AND ENERGY EFFICIENCY

PCREEE (Pacific Centre for Renewable Energy and Energy Efficiency)
Nuku'alofa, Tonga

American Samoa, Cook Islands, Fiji, Federated States of Micronesia, Guam, Kiribati, Marshall Islands, Northern Mariana Islands, New Caledonia, Nauru, Niue, French Polynesia, Papua New Guinea, Pitcairn Islands, Palau, Solomon Islands, Tokelau, Tonga, Tuvalu, Vanuatu, Wallis and Futuna, Samoa



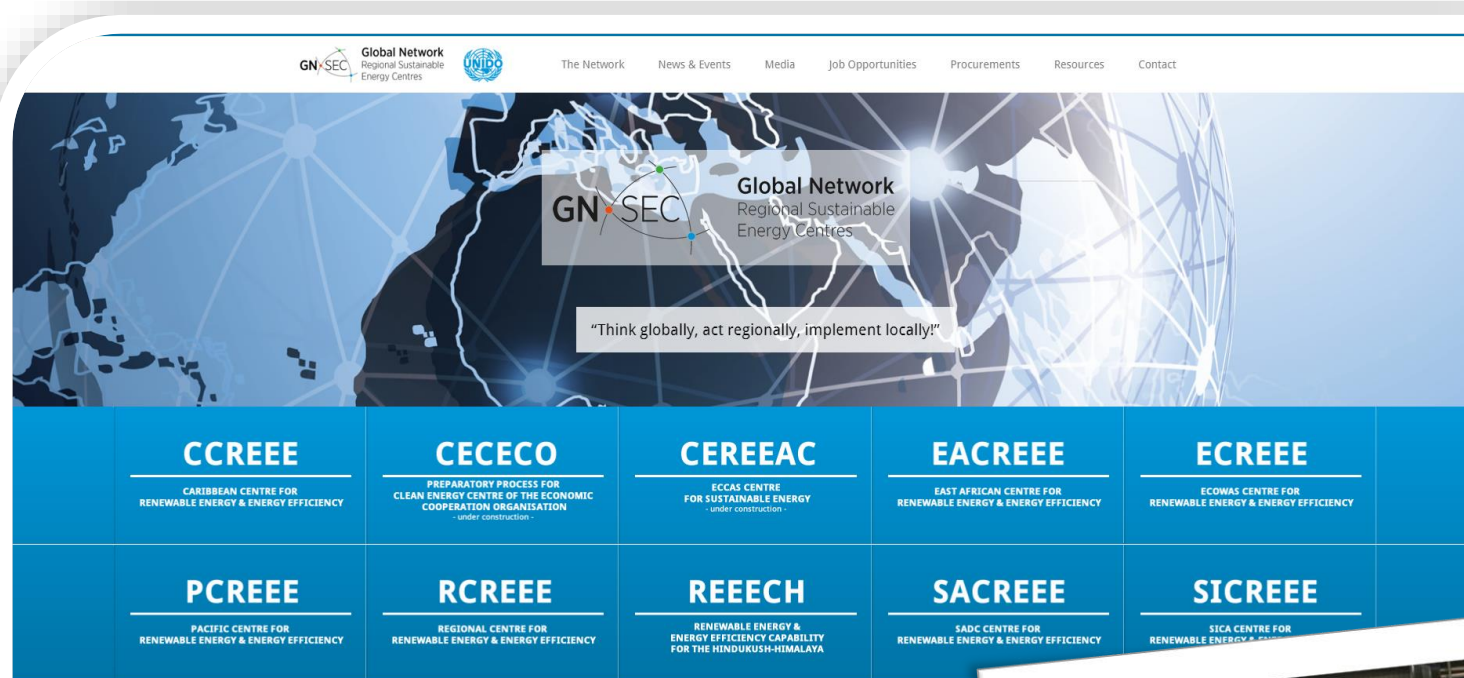
GN-SEC Platform for south-south and triangular cooperation

We work more than 24 hours for the energy and climate transition!



Platform for joint:

- *coordination*
- *learning*
- *projects*
- *campaigns*
- *tools*
- *knowledge*
- *fund raising*



Joint cooperation on common issues and solutions (e.g. e-mobility, storage, digitalisation, gender)

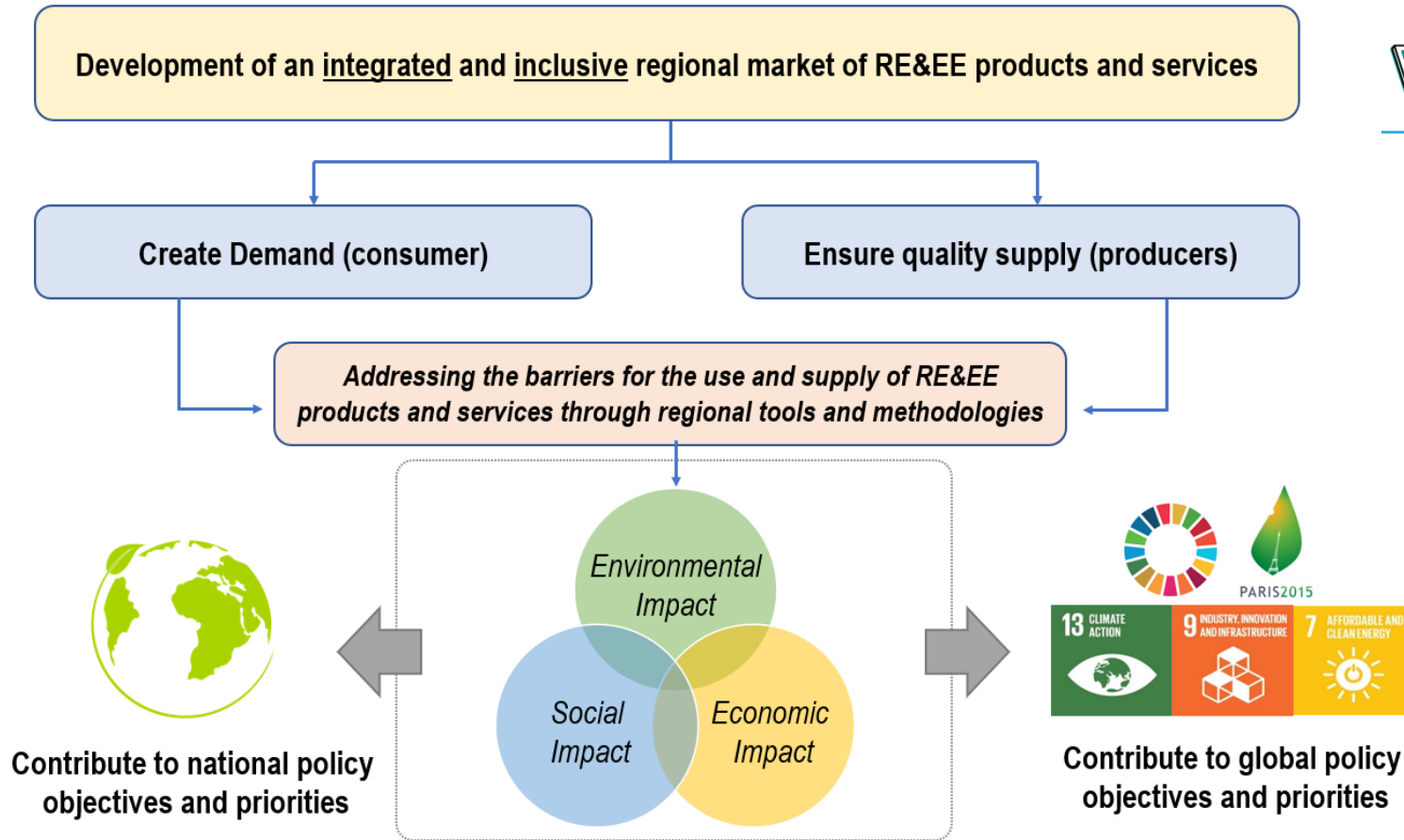
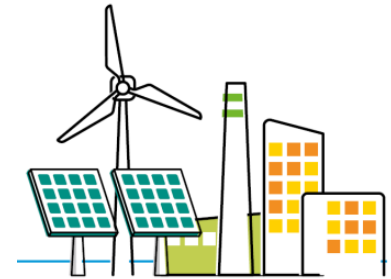


CECECO Benefits for the ECO region

- Create regional capacity to plan, coordinate and monitor the transition
- Ownership and priority-setting by the region for the region
- Address barriers jointly at lower cost with shared resources
- Accelerate equal progress of the region “leave nobody behind”
- Economies of scale through common product and service markets
- Create spill-over effects between countries and sectors
- Donor harmonization and alignment with local demands
- Regional “infrastructure” for international cooperation and partnerships
- Missing link between environmental conventions and national implementation
- Advocates for an inclusive energy transition creating local jobs and revenues



Mission and Vision of the GN-SEC centres

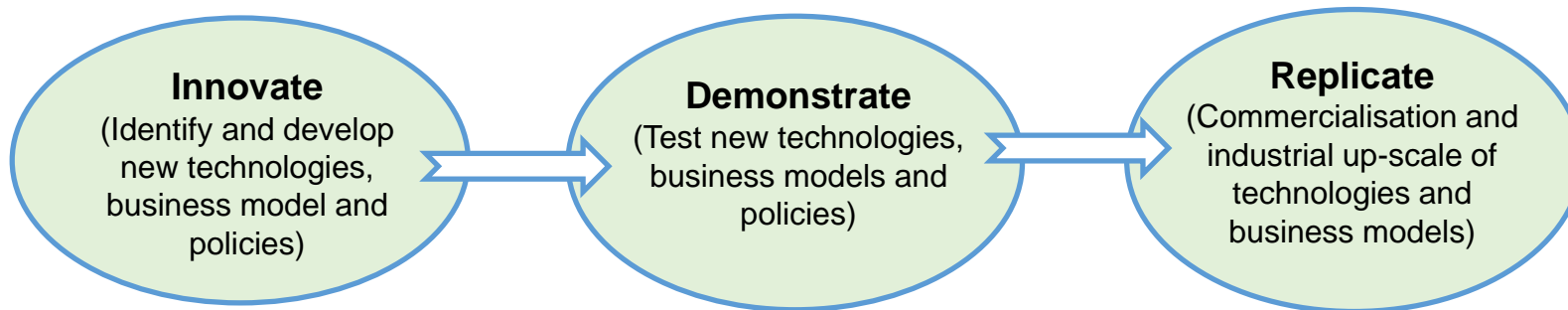


Activities and Services of GN-SEC centres

Create spill-over effects and address the barriers regionally



Promote regional diffusion and industrial up-scale of innovations



Examples: e-mobility, digitalisation and industry 4.0 solutions

*Towards low-carbon sustainable energy
systems and infrastructure*



GN-SEC regional results and impacts

- RE&EE policies, tracking frameworks and national action plans (e.g. ECREEE, gender)
- Integrated e-mobility and power frameworks (e.g. CCREEE, PCREEE)
- Integrated resource and resilient energy planning (e.g. CCREEE, PCREEE)
- Quality and certification frameworks for RE&EE services (e.g. RCREEE, ECREEE,)
- Quality standards and certification for RE&EE products (e.g. PCREEE, EACREEE, SACREEE, ECREEE)
- Sustainable energy information systems (e.g. ECREEE, PCREEE, CCREEE, REEECH)
- RE&EE entrepreneurship and innovation facilities, associations and clusters (e.g. SACREEE, ECREEE, PCREEE)
- Project preparation and concessional finance facilities in partnership with development banks (e.g. CCREEE, ECREEE)
- Demand and supply-side RE&EE market development programs (e.g. ECREEE)
- Train the trainer networks and capacity building tools
- Policy briefs and positions



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

UNIDO support:

- Peer to peer learning
- Mentoring
- Ownership-driven
- Partnership-oriented
- Timely limited





Thank you!



The sun never goes down in the GN-SEC!

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UNIDO

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