



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION



**SUSTAINABLE DEVELOPMENT GOAL 9**  
INDUSTRY, INNOVATION AND INFRASTRUCTURE

# Global Network of Regional Sustainable Energy Centers (GN-SEC) Program

– Looking back and going forward –





## UNIDO supports the establishment of regional sustainable energy centers

- Regional accelerators for the energy and climate transition
- Owned by and part of the integration efforts of the regional economic communities
- Eight operating centers covering 108 countries, incl. most LDCs and SIDS
- Setting frameworks for more than a billion energy consumers in developing countries
- High level approval by Ministers and/or Heads of State
- Implements activities through Networks for National Focal Institutions (NFIs)
- Works in five official languages, incl. Portuguese



- **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)



## Benefits of regional energy and climate cooperation

- *Missing link between int. climate agreements (instruments) and national implementation*
- *Address barriers jointly at lower cost with shared resources and “makerspace”*
- *Economies of scale through common markets following harmonized standards*
- *Strengthen regional capacities to plan, coordinate, implement and monitor*
- *Promote equal progress between countries*
- *Ownership and priority-setting by the region for the region*
- *De-risking through joint standards/regulation*
- *Donor harmonization and coordination*
- *Enhanced inclusiveness through regional local content requirements, entrepreneurship and innovation support*





# GN-SEC Platform for south-south and triangular cooperation

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

## A platform for joint:

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



***South-south and triangular cooperation on issues and solutions of joint interest (e.g. e-mobility, storage, digitalisation, gender)***





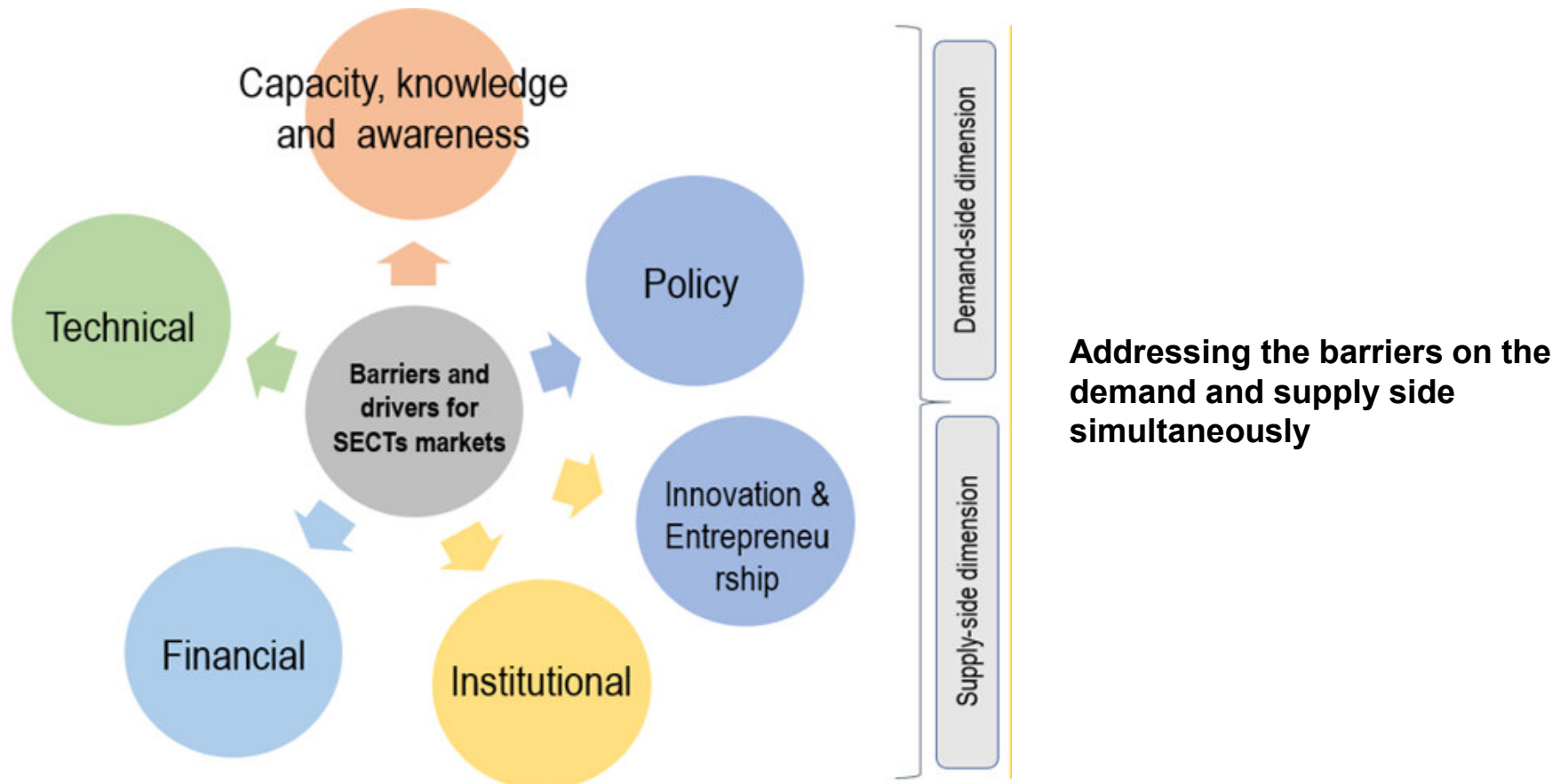


## Functions of the GN-SEC Platform:

- Raising the profile and visibility of the network on global level;
- Advocating for SDG-7, SDG-9 and SDG-13;
- South-south cooperation on common issues and solutions (e.g. SIDS, LDCs)
- Advocating for more inclusive SECT technology transfer processes;
- Joint policy inputs for international energy and climate processes;
- Effective communication, public relations and cooperate identity;
- Lessons learned and joint learning on technical and institutional aspects;
- Joint quality assurance and monitoring of results;
- Provision of global services and promote joint products;
- Promote Joint programs and projects;
- Joint fund raising;
- Strategic partnerships with int. organizations, industry, civil society, investors and foundations;

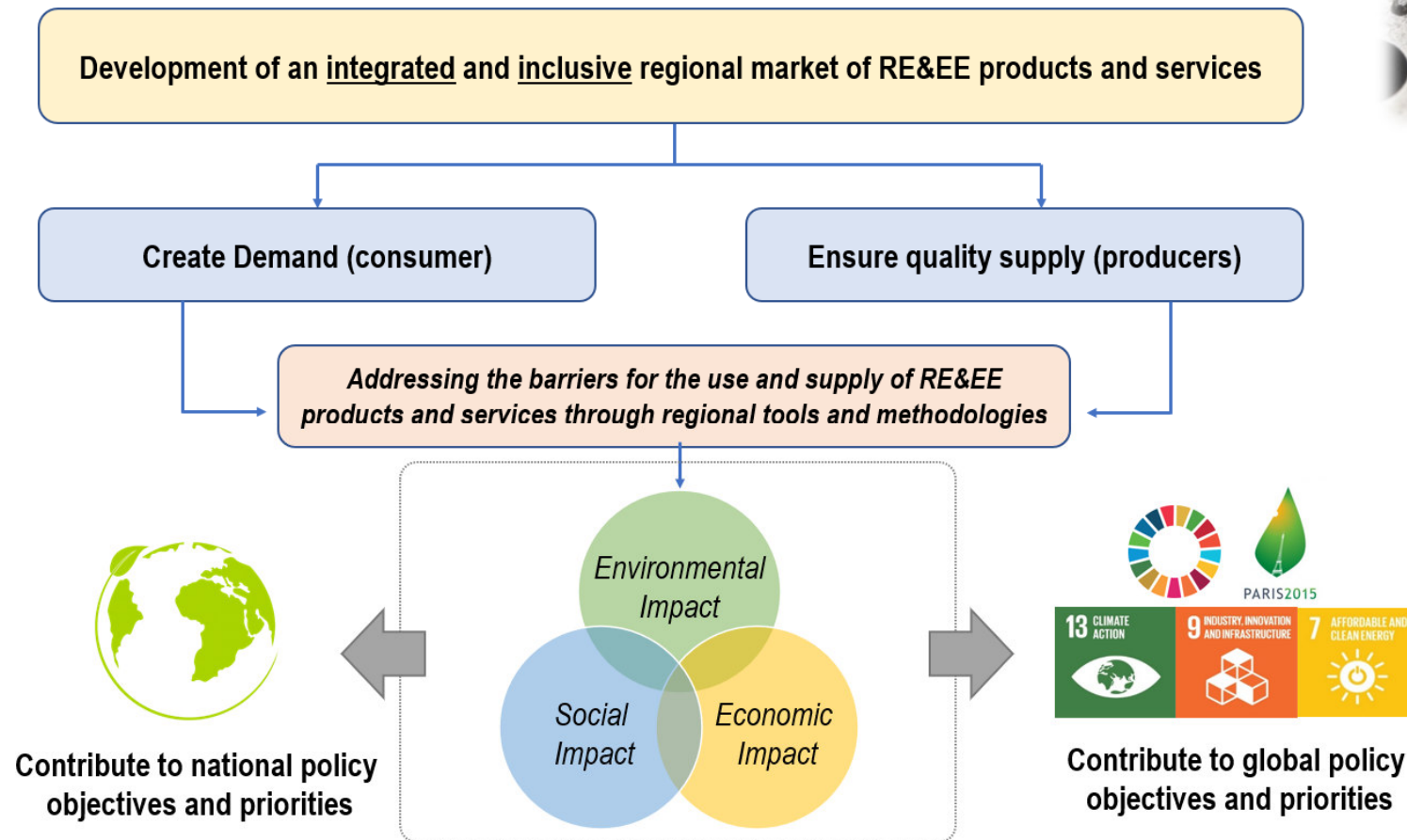


# Addressing the barriers for inclusive sustainable energy and climate technology markets regionally





## GN-SEC Mission and Vision





## Introduction of innovative RE&EE products and services in emerging markets

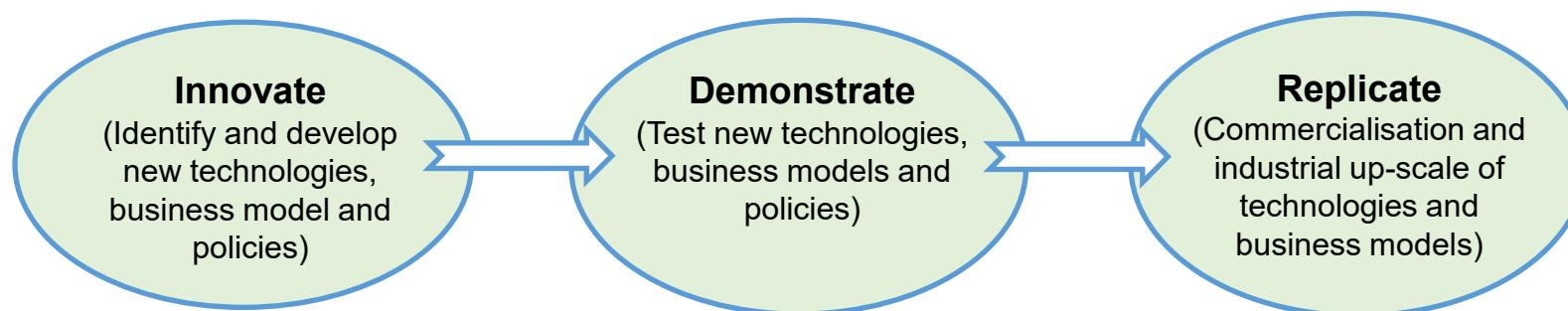


***Regional cooperation to address demand and supply-side barriers***



*Potential joint CPLP activities!*

***Supporting the diffusion of new low-carbon technologies and business models***



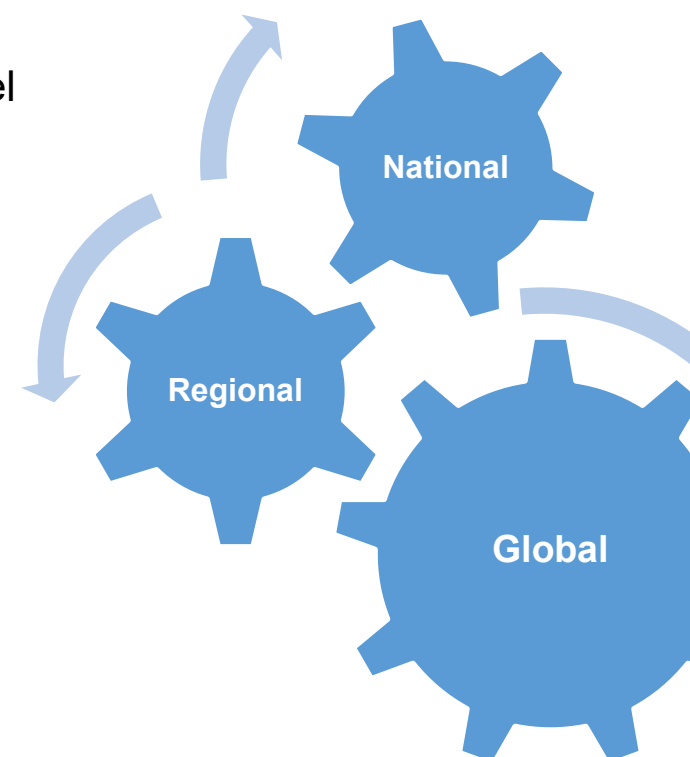
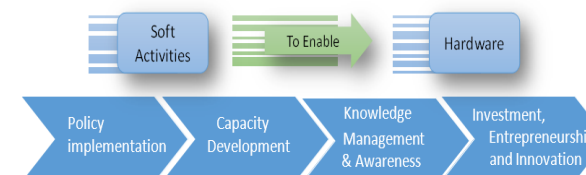
Examples: e-mobility, digitalisation and industry 4.0 solutions

*Towards low-carbon sustainable energy systems and infrastructure*



## Selected results/impacts

- **Innovated the regional institutional set-up for RE&EE in 6 regions** mainly covering LDCs and SIDS with population of more than 1,1 billion
- Institutionalized the **sustainable energy agenda in regional policy processes** and top-decision making-level
- Adopted by more than **97 Ministers of Energy and Heads of State** in mostly LDCs and SIDS
- Employs around **90 regional staff** (excl. consultants and temporary assistance)
- **Leveraged more than USD 300 million direct funding** for GN-SEC Programs (excl. investment leveraged through these activities)
- Developed **4 regional RE&EE policies** (incl. one on **gender**) and **15 national action and investment plans**
- **Develops regional EE standards covering more than 50 countries** (e.g. appliances, solar thermal)





## Selected results/impacts

- **Operates 3 regional RE&EE information systems** with more than 2.000 documents/studies and GIS data
- **3 regional GIS based small hydro, solar and wind power potential assessments in 15 countries**
- **At least 15.000 participants in GN-SEC RE&EE Conferences** and events (excl. trainings)
- **At least 5.000 experts and trainers on various RE&EE issues trained** (excl. train the trainers effects)
- **At least two regional RE&EE certification schemes on PV and solar-thermal established**
- **Operating three regional facilities to promote RE&EE projects and entrepreneurship**
- **National RE&EE Investment Plans** with a volume of several billions developed
- **Platform for south-south cooperation** and the **implementation of priority global climate actions** (e.g. e-mobility)



## 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

### 1<sup>st</sup> 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

### 2<sup>nd</sup> 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 GN-SEC Principles – A „new deal“ for inclusiveness**

- Programmatic approach (individual centres are part of a wider program);
- Demand-driven (based on requests by the regions);
- „No blueprints“ and tailored design to the individual needs of the region;
- Ownership and leadership by the regional organisation and their Member States;
- Hosted by an existing domestic institution or a Member State;
- High level of legitimacy based on legal agreements and approval by Ministers;
- Well embedded in sub-regional decision-making and policy processes;
- Well-connected to national Ministries and policies;
- Complementary to existing regional energy institutions (e.g. utility organizations);
- Use of domestic processes and systems (e.g. procurement, recruitment);
- Sustainability through domestic contributions, int. partnerships, fee-for-service and participation in call for proposals;
- „Small is beautiful“ and „form follows function“;
- Institutional "check and balances" through Governance (e.g. Executive Board);
- Timely-limited UNIDO support for institution building;





## ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE) – *Third Operational Phase*

- Specialized agency of ECOWAS
- Covers 15 Countries with 376 million energy consumers
- Established by the ECOWAS Commission with support of UNIDO
- Based on the Ouagadougou Declaration adopted on 12 November 2007 and a regulation passed by the ECOWAS Council of Ministers in November 2008
- ECREEE officially inaugurated Praia, Cabo Verde in July 2010
- National Focal Institutions among all ECOWAS countries
- Around 50 staff employed
- Comprehensive technical program
- Core partners: ADA, AECID, EU, GIZ, USAID, WB, AfDB, IRENA
- Website: [www.ecreee.org](http://www.ecreee.org)



Country
Benin
Burkina Faso
Cape Verde
Ivory Coast
Gambia
Ghana
Guinea
Guinea-Bissau
Liberia
Mali
Niger
Nigeria
Senegal
Sierra Leone
Togo



**Mr. Mahama Kappiah,**  
Executive Director





## Regional Centre for Renewable Energy and Energy Efficiency (RCREEE) – *Third Operational Phase*

- Intergovernmental organisation with diplomatic status
- Covering 17 Arab Countries (mostly MICs)
- Based on the Cairo Declaration signed in June 2008
- Established in alliance with the League of Arab States with initial support of GIZ and DANIDA
- Host country agreement signed with Egypt in August 2010
- National Focal Institutions among all Member countries
- Around 20 staff employed
- Comprehensive technical program
- Core partners: GIZ, DANIDA, NREA, UNIDO, WB, IRENA, UNEP
- Website: [www.rcreee.org](http://www.rcreee.org)



### Member Countries

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



**Mr. Ahmed Badr**  
Executive Director



## SADC Centre for Renewable Energy and Energy Efficiency (SACREEE) – *First operational phase*

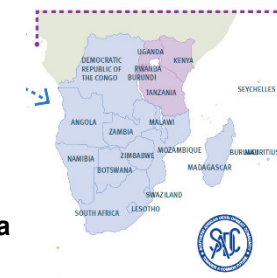


- Specialised SADC agency based on a legal agreement
- Represents 16 Member States (many of them LDCs) and represents around 300 million energy consumers
- Established by SADC in partnership with UNIDO
- Approval in principle by the SADC Energy Ministers at their 33rd and 34th meetings held in May 2013 and July 2015
- Nomination of Namibia as host country in August 2015
- Launch of first technical SACREEE operations in 2016
- Official Inauguration on 24 October 2018
- National Focal Institutions among all SADC countries
- Core partners: ADA, SIDA, EU, USAID, IRENA
- Website: [www.sacreee.org](http://www.sacreee.org)

Country
Angola
Botswana
Comoros <sup>[4][5]</sup>
Democratic Republic of Congo
eSwatini (Swaziland)
Lesotho
Madagascar
Malawi
Mauritius
Mozambique
Namibia
Seychelles
South Africa
Tanzania
Zambia
Zimbabwe



**Mr. Kudakwashe Ndhlukula**  
Executive Director





## East African Centre for Renewable Energy and Energy Efficiency (EACREEE) – *First operational phase*

- EAC Centre of Excellence based on Ministerial decisions
- Represents six Partner States with a population of 171 million energy consumers
- Established by the EAC Secretariat in partnership with UNIDO
- Validation workshops: 11 to 12 March 2013 in Arusha, Tanzania, and 6 to 7 May 2013 in Kampala, Uganda
- Decision to establish EACREEE at the 9th Meeting of the EAC Sectoral Council on Energy, 21 April 2014 in Kenya
- 33<sup>rd</sup> EAC Council of Ministers, held on 29<sup>th</sup> February 2016 in Tanzania, decided to establish EACREEE at CEDAT in Kampala, Uganda
- Since 2018 full legal identity as non-profit company of CEDAT
- National Focal Institutions in all EAC Partner States
- Core partners: ADA, SIDA, ISA
- Website: [www.eacreee.org](http://www.eacreee.org)



Name	
	Kenya
	Tanzania
	Uganda
	Burundi
	Rwanda
	South Sudan



**Mr. Mackay Okure,**  
Interim-Director



## Pacific Centre for Renewable Energy and Energy Efficiency (PCREEE) – *First Operational Phase*

- 22 Pacific Island States and Territories (PICTs) with around 10 million energy consumers
- Established by SPC, SIDS DOCK and UNIDO as part of a SAMOA Pathway Partnership
- Validation workshop, 12 to 13 March 2014, in Fiji, Nadi
- Endorsement at the Meeting of Pacific Ministers of Energy, 2 to 4 April 2014, in Nadi, Fiji
- Decision to host PCREEE at the SPC hub in Nuku'alofa, Tonga
- Inauguration of PCREEE at the 2<sup>nd</sup> Meeting of Pacific Ministers of Energy in April 2017 in Tonga
- National Focal Institutions in 22 PICTs
- Partners: SPC, Austria, Norway, Republic of Korea
- Website: [www.pcreee.org](http://www.pcreee.org)



**Mr. Solomon Fifita, Manager**



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## Caribbean Centre for Renewable Energy and Energy Efficiency (CCREEE) – *First operational phase*



- Covering 15 CARICOM countries with 18 million energy consumers
- Established by CARICOM, SIDS DOCK and UNIDO as part of a SAMOA Pathway Partnership
- Validation workshop, 21 to 22 July 2014 in Dominica
- Adoption and host country decision at the 36<sup>th</sup> Meeting of the CARICOM Heads of Government, held in Barbados, 2-4 July 2015
- Launch of interim-phase during a high-level ceremony in October 2015
- CCREEE legal agreement went into force on 19 May 2018
- Headquarters Agreement between CCREEE and Barbados signed on 22 May 2018
- National Focal Institutions in all CARICOM countries
- Core Partners: ADA, AECID, EU, GIZ
- Website: [www.ccreee.org](http://www.ccreee.org)



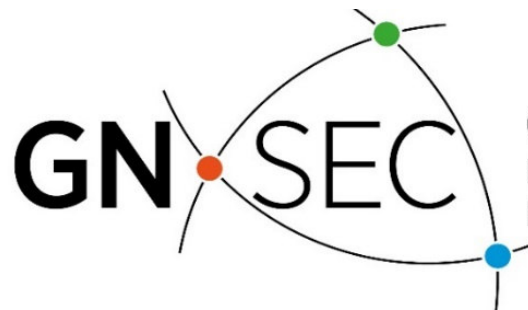
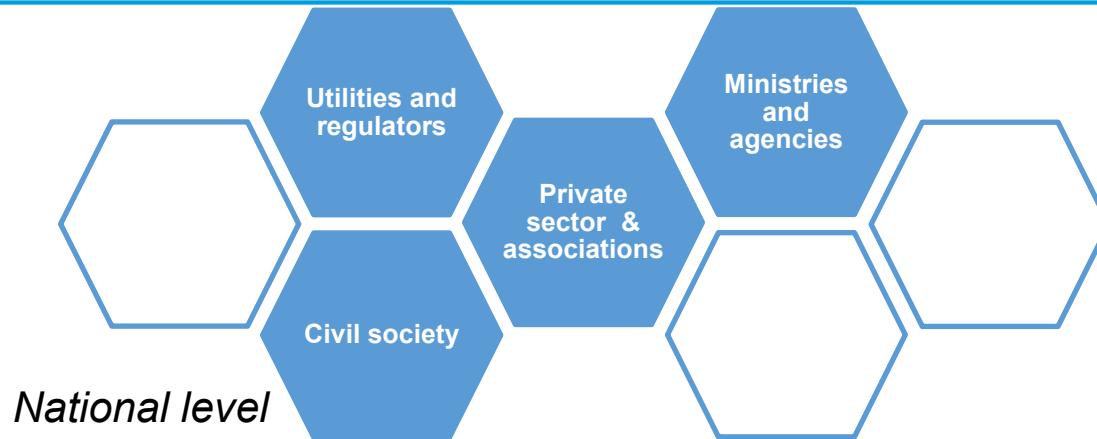
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	Antigua and Barbuda
	Bahamas
	Barbados
	Belize
	Dominica
	Grenada
	Guyana
	Haiti
	Jamaica
	Montserrat
	Saint Kitts and Nevis
	Saint Lucia
	Saint Vincent and the Grenadines
	Suriname
	Trinidad and Tobago



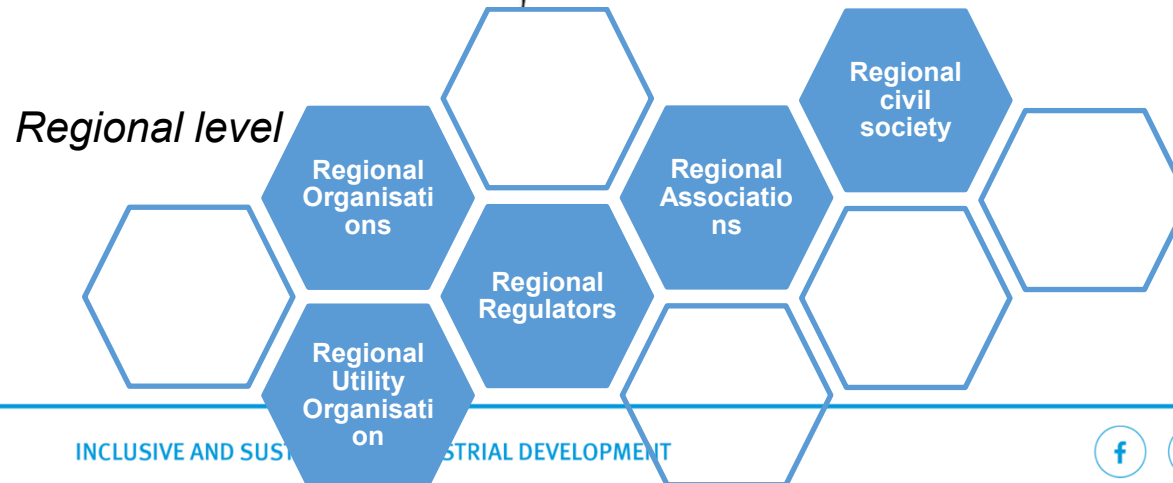
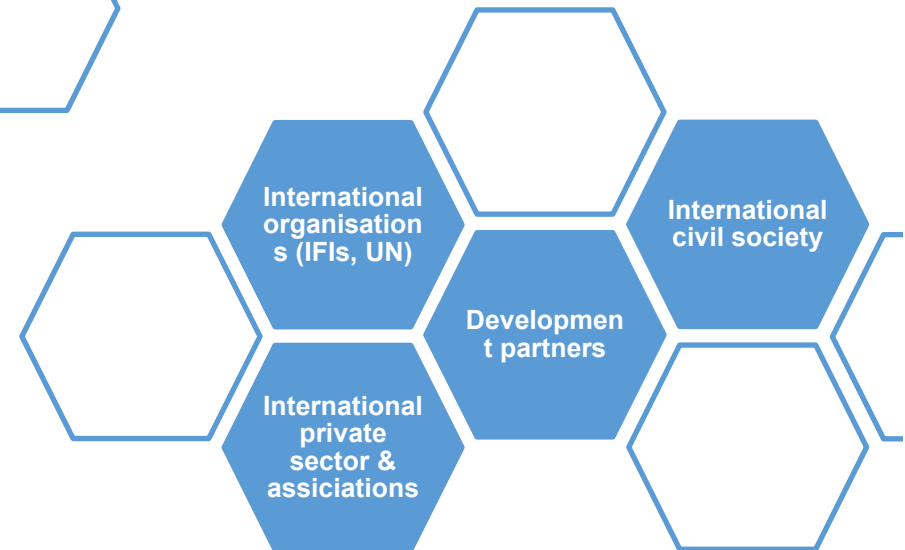
**Mr. Gary Jackson,**  
Executive Director







**Makerspace**  
**Global Network**  
Regional Sustainable  
Energy Centres





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INDUSTRY, INNOVATION AND INFRASTRUCTURE

# Welcome to the GN-SEC makerspace!

**Where the day has more than 24 hours!**

Mr. Martin Lugmayr,  
Climate Policy and Partnerships Division  
UNIDO

## **GN-SEC Contact:**

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