Global Network of Regional Sustainable Energy Centers

– From the region for the region –

Martin Lugmayr, GN-SEC Coordinator, Department of Energy, UNIDO
Regional Validation Workshop on the Clean Energy Centre for the ECO region
23 June 2020, Iran, Tehran

Think globally, act regionally, implement nationally!
Global Network of Regional Sustainable Energy Centers

Vision: We accelerate the energy and climate transformation in developing and transition countries by creating regional markets for sustainable energy product and services

Mission: We support economic communities in the establishment of regional sustainable energy centers addressing market barriers through joint approaches

2010

Africa and Arab region

2020

Adopted by 108 Ministers of Energy!

Latin America and Caribbean

Asia and Pacific region

Under preparation

Clean Energy Centre for the ECO region

Central African Centre for Renewable Energy and Energy Efficiency

ICIMOD REEEECH
A platform for joint learning and south-south cooperation

- “Makerspace” to cooperate on issues and solutions of mutual interest
- Joint web-platform to disseminate information [www.gn-sec.net](http://www.gn-sec.net)
Benefits of regional sustainable energy cooperation

- Equal access to low-carbon resources through regional energy trade
- Address barriers more effectively and at lower costs regionally
- Avoid duplication of efforts and isolated national/donor approaches
- Equal progress of the region through joint learning and coordination
- Economies of scale through common RE&EE markets following joint standards
- Regional capacity to support and monitor national RE&EE implementation
- Ownership and priority-setting by the region for the region
- Missing regional link between international climate finance and national implementation
- Regional de-risking/mobilization of private sector participation, FDI and project finance (equity, concessional, non-concessional)
- Higher regional added value through local content requirements, supply chains, entrepreneurship and innovation
Mission and Vision of GN-SEC centres

The GN-SEC centers aim at creating integrated and inclusive regional markets for sustainable energy and climate technology (SECT) products and services.

- Create Demand
- Ensure quality supply

Addressing the barriers and drivers for the use and supply of SECT products and services through regional tools and methodologies

- Contribute to national policy objectives and priorities
- Contribute to global policy objectives and priorities

Environmental Impact

Social Impact

Economic Impact
Regional market introduction and industrial-upsacle of RE&EE technologies, products, services and business models

Diffusion stages of new low-carbon technologies and business models

Innovate
(Identify and develop new technologies, business model and policies)

Demonstrate
(Test new technologies, business models and policies)

Replicate
(Commercialisation and industrial up-scale of technologies and business models)

Demand and supply-side barriers to be addressed

Institutional capacity  Policy, regulation and standards  Knowledge management and awareness  Qualification and certification  Access to finance and technology  Entrepreneurship and Innovation

Towards low-carbon sustainable energy systems and infrastructure
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 project
- 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 GN-SEC Principles

• 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;
Examples: Regional plans, policies and national action plans

Towards a Harmonised African Electricity Market


National Energy Efficiency Action Plans (NEEAP) End Use Electrical EE Guidelines

RENEWABLE ENERGY ZONES FOR THE AFRICA CLEAN ENERGY CORRIDOR
Examples: Regional standards and certification of products and services
Examples: Regional de-risking and entrepreneurship support

Renewable Energy Entrepreneurship Support Facility for Southern Africa
Apply for technical support
Acquire knowledge to manage and grow your renewable energy business

Deadline: 15 November 2019 | Details: www.sacreee.org

ESF
ECOWAS Renewable Energy Entrepreneurship Support Facility

CALL FOR APPLICATION

PFAN
Save the Date! West Africa Forum for Climat
Clean Energy Financing, April 12, 2018

ECREEE
ECOWAS RENEWABLE ENERGY FACILITY - EREF
Examples: Regional information/data management and analytics

- Arab Future™ Energy Index
- GN-SEC library with more than 2,000 regional documents
Examples: Regional EV policies and programs in SIDS

PCREEE and UNIDO join efforts to develop a regional e-mobility policy for Pacific Island Countries and Territories (PICTs)
Examples: Regional guidelines, practical models and tool-kits

- Integrating Renewable Energy Projects into Grids
- Technical Requirements Guideline

- Explore the Renewable Energy Tariff Calculation Toolbox for West Africa

- Regional partnerships on technical guidelines and standards for small hydro power development

- Egyptian Solar PV Feed-in-Tariff Procedures for Large Scale Projects
  A guideline for investors

- COVID-19 and the Energy Sector: Perspectives for Policymakers

- Capacity Needs Assessment for Green Banking in the MENA Region
Examples Mainstreaming gender in sustainable energy

PFAN, ECREEE and CTCN Call for Proposals:
Women-led Sustainable Energy Enterprises in West Africa
Examples: Awareness and advocacy
Examples: Global GN-SEC advocacy

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:
info@gn-sec.net
www.gn-sec.net