

Concept Note (CEM-RGEI)

The Clean Energy Ministerial (CEM) is a high-level global forum to promote policies and programs that advance clean energy technology, to share lessons learned and best practices, and to encourage the transition to a global clean energy economy. Initiatives are based on areas of common interest among participating governments and other stakeholders. The Framework for the Clean Energy Ministerial, adopted at the seventh Clean Energy Ministerial in 2016, defines the CEM governance structure and outlines the mission statement, objectives, membership, and guiding principles.

The Regional and Global Energy Interconnection(RGEI) Initiative was established at the 9th Clean Energy Ministerial meeting in Copenhagen/Malmö in May 2018. RGEI's objectives are to discuss conducive policy and regulatory framework regarding regional and global power system integration, build consensus on facilitating energy transition via increased proportion of renewable energy in energy consumption and enhanced grid interconnection, encourage CEM member countries to engage in the process of RGEI and seize collaborative opportunities. The members of the RGEI Initiative include China, Chile, Finland, Korea, South Africa, and United Arab Emirates. Global Energy Interconnection Development and Cooperation Organization (GEIDCO) is the operating agent.

Activities and Events

The RGEI Initiative organized series important events, workshops, webinars since its establishment as following:

High-level seminar: RGEI held a workshop on energy interconnections and solutions to address climate change, co-organized with Environmental Defense Fund, at COP24 Katowice, Poland. This seminar addressed the value and prospects of regional electricity system interconnection.

Case studies: RGEI developed case studies of regional power grid interconnection, focusing on issues of technical-economic, regulations coordination, and market design etc. The regions included in the case studies are European union, Central America, East Asia (Mongolia, Russia and Northern China), and Southeast Asia. Post CEM10, RGEI will continue developing case studies covering other regions, such as South America, and West Asia-North Africa.

Policy brief: Based on the case studies, RGEI developed a policy brief for CEM10, CEM11, which emphasis key policy and market design considerations on stakeholder coordination, transparent policy and planning, public private partnership on developing ecosystem for power transmission project, international power trading mechanism, and business enabling environment. RGEI will organize a series of webinars, workshops,

providing knowledge sharing platform for RGEI members, and open to wider CEM Members participation.

RGEI Webinars: Based on the sharing of the regional energy interconnection, the RGEI initiative invited the speakers from North America, South America, Europe, Northeast Asia, Southeast Asia, South Asia, Africa, Middle East & North Africa to share their individual experiences or lessons.

The past RGEI Webinars is as follows:

No.	List of RGEI Webinars	Prezentator	Time
1	Energy Interconnection Promoting Energy Transition and Sustainable Development: Case Study for Central and South America	Dr. Liang Caihao (GEIDCO)	November,2020
2	Building Stakeholder Consensus in Cross-Border Power Trade	Mr.Edmund Downie (Analysis Group)	February,2020
3	China's Perspective on Northeast Asia Electricity Interconnection	Mr. Lei Xiaomeng (China Electricity Council)	March ,2020
4	Electricity Trade in the GCC and Middle East Potential of a Pan-Arab Electricity Market	Mr. Phillip Cornell (World Bank Group/Atlantic Council)	April ,2020
5	Power Grid Connection and its Technical Issues	Prof. Ryuichi Yokoyama (Waseda University)	May ,2020
6	Five Ways to Accelerate Power Interconnection in Asia	Dr Yongping Zhai (Asian Development Bank)	June,2020
7	The practices and Experiences in Southern Africa Power Pool	Dr.BurakGuler (University of Waterloo)	July,2020
8	European Electricity Interconnections and Cross-border Electricity Trade Experiences, Opportunities and Challenges	Prof.Zhang Xiaoping (University of Birmingham)	August ,2020
9	RGEI Webinar Clean Energy Networks to Stimulate a Green Recovery(CEM11)	Mathew (ESCAP) Nobuo Tanaka (Former IEA Director General), Nuki Utama(ASEAN), Jorge Rivera Staff, Elijah Sichone, etc.	September ,2020

10	Mobilizing Private Sector Finance to Develop Undersea Intercontinental Clean Electricity Trade	Dr. Fraser Thompson(SunCable)	October ,2020
11	Integrating Renewable Energy within Cross-Border Power Trade	Mr. William Polen (USAID), Dr. Steven S. Burns (United States Energy Association)	December ,2020
12	Regional Power Grid Connectivity for Sustainable Development in Northeast Asia Policies and Strategies	Matthew Wittenstein (ESCAP)	January,2021
13	One Sun, One World, One Grid Integration in South Asia	Mr. Rajiv Ratna Panda (IRADe)	February,2021
14	Standardization an enabler and booster for a GEI effectiveness	Prof. Richard Schomberg (EDF)	April,2021
15	Energy Interconnection in Africa Opportunities It Creates and Challenges It Faces	Mosad Elmissiry (AUDA-NEPAD)	May,2021
16	The most cutting -edge technologies in cross-border transmission and power exchange that will enable new routes and possibilities for regional electricity integration and trade	1. Prof Coviello President of the Board of Terna Plus 2. Olivier Grabette, Senior Executive Vice President of RTE 3. Salge, CTO of Hitachi/ABB 4. Zhao Jing, CSO ,TBEA	June,2021
17	Cigre studies on Global Grids: a feasible and sustainable solution	Mr. ANTONIO ILICETO, Chairman, CIGRE Study Committee C1 System Developments & Economics	July 15,2021
18	A pragmatic assessment of power connectivity	Dr. Xunpeng (Roc) Shi, Principal Research Fellow at the Australia-China Relations Institute University of Technology Sydney and President of the International Society for Energy Transition Studies (ISETS)	August,2021
19	The State of the Canadian Electricity Sector and the Canada U.S. Electricity Relationship	Francis Bradley, CEO of Canadian Electricity Association	September,2021
20	The Future of Energy Infrastructure in the Context of International Climate Neutrality Commitments	Julian Popov, Fellow of European Climate Foundation, Chairman of the Building Performance Institute Europe and Former Minister of Environment of Bulgaria	October,2021

21	The Energy Transition and Interconnections in South America region	Juan Carlos Araneda	November,2021
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