

THE SIXTH CLEAN ENERGY MINISTERIAL AGENDA

(Participation in CEM6 is by invitation only)

26 – 28 May 2015

Mérida, Mexico

Fiesta Americana Mérida

JOINT ENERGY AND CLIMATE PARTNERSHIP OF THE AMERICAS (ECPA)¹ – CLEAN ENERGY MINISTERIAL (CEM) PLENARY – Tuesday, 26 May

13:00 – 14:30	<p>Clean Energy Progress and the “Road to Paris”</p> <p>This joint session will feature a strategic discussion on the “Road to Paris” Conference of the Parties (COP21) by key climate leaders from ECPA and CEM governments. It will highlight existing clean energy cooperation that will support Western Hemisphere countries in implementing and achieving their clean energy goals. In particular, the discussion will focus on CEM initiatives that can provide concrete clean energy and climate benefits to ECPA members. Finally, the session will provide context for detailed discussions that will take place during the following side events in which Ministers are encouraged to participate.</p> <p>All ECPA and CEM Ministers are invited to attend the session.</p>
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JOINT ECPA – CEM SIDE EVENTS* – Tuesday, 26 May (*See attachment*)

Time	Room: Yucatán III & IV	Room: Intercontinental Hotel Gran Salon I	Room: Intercontinental Hotel Gran Salon II	Room: Celestún
15:00 – 16:30	REmap Mexico	Charting a Course for Power System Transformation in Latin America	Powering Energy Productivity Through Efficiency	Clean Energy Policy Innovations and Collaboration Opportunities in Latin America & Caribbean
16:30 – 18:00				Fossil Fuel Subsidy Reform

**CEM ministers, delegates, roundtable participants, and invited observers may attend any sessions of interest.*

18:00 -	Cultural Activity for ECPA and CEM Ministers
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¹ **Energy and Climate Partnership of the Americas (ECPA):** ECPA is a flexible mechanism through which governments in the Western Hemisphere, on a voluntary basis, may lead multi-country or bilateral initiatives on climate and clean energy topics.

CEM DAY ONE – Wednesday, 27 May

07:00 – 08:30	Registration
08:30 – 08:45	<p>Welcoming Remarks and Introduction [Open Session] [Room Yucatán I & II]</p> <ul style="list-style-type: none"> • <i>Pedro Joaquín Coldwell, Secretary of Energy, Mexico</i> <p>Open to all delegates, roundtable participants, and invited guests.</p>
08:45 – 09:15	<p>The Opportunity Presented by a Second Phase of the CEM [Open Session] [Room Yucatán I & II]</p> <ul style="list-style-type: none"> • <i>Ernest Moniz, Secretary of Energy, United States</i> • <i>Wan Gang, Minister of Science and Technology, China</i> • <i>Ibrahim Baylan, Minister of the Environment and Energy, Sweden</i> • <i>Others TBC (please let the Secretariat know of interest)</i> <p>Short, framing introductory remarks on the Second Phase of the CEM (i.e., the “CEM 2.0” opportunity) by interested ministers, with more in-depth discussion to take place on Day 2.</p>
09:15– 10:15	<p>Scene Setter Presentations and Discussion [Open Session] [Room Yucatán I & II]</p> <p><i>Clean Energy Progress Report</i></p> <ul style="list-style-type: none"> • <i>Maria van der Hoeven, Executive Director, International Energy Agency</i> <p>Presentation of IEA analysis of the status of clean energy deployment and related policies around the world.</p> <hr/> <p><i>International Renewable Energy Agency Report</i></p> <ul style="list-style-type: none"> • <i>Adnan Amin, Director General, International Renewable Energy Agency</i> <p>Presentation on the key trends in the global clean energy transformation, with a focus on increased renewables uptake.</p> <hr/> <p><i>World Energy Council Trilemma Report</i></p> <ul style="list-style-type: none"> • <i>Christoph Frei, Director General, World Energy Council</i> <p>Presentation of insights gathered through national workshops on the challenges and opportunities for CEM member countries to meet clean energy goals.</p> <hr/>

10:15 – 11:00	Ministers’ Group Photo and Networking Break
11:00 – 13:00	Public-Private Roundtable Discussions [By Invitation] The high-level roundtable discussions will allow for a free-flowing dialogue among Ministers, private-sector executives, and international organization leaders. Three roundtables will be held in parallel: <ul style="list-style-type: none"> • <i>Accelerating Energy Productivity [Room Yucatán III]</i> • <i>Sustainable Urban Energy Systems [Room Celestún]</i> • <i>Achieving a Social License for Clean Energy Deployment [Room Mérida II & III]</i>
13:00 – 14:00	Ministers’ Lunch Separate Lunch for Delegates, Roundtable Participants, and Special Guests
14:00 – 15:00	Clean Energy Finance Presentation and Panel Discussion [Open Session] [Room Yucatán I & II] <ul style="list-style-type: none"> • Presenter and Moderator: <ul style="list-style-type: none"> ○ <i>Michael Liebreich, Chairman of Bloomberg New Energy Finance</i> • Panelists: <ul style="list-style-type: none"> ○ <i>Rachel Kyte, Vice President and Special Envoy For Climate Change, World Bank</i> ○ <i>Kai Buntrock, Managing Director and CFO, Sowitec</i> ○ <i>Josué Tanaka, Managing Director, European Bank for Reconstruction and Development</i> ○ <i>Marshal Salant, Head of Alternative Energy Finance, Citigroup (TBC)</i> <p>Presentation on clean energy investment trends around the world followed by a panel discussion on innovative approaches to scale-up finance for clean energy projects, both from the public and private sector perspectives, to drive large-scale clean energy deployment.</p>
15:00 – 17:00	Public-Private Roundtable Discussions [By Invitation] The high-level roundtable discussions will allow for a free-flowing dialogue among Ministers, private-sector executives, and international organization leaders. Three roundtables will be held in parallel: <ul style="list-style-type: none"> • <i>Finance for Energy Access [Room Yucatán III]</i> • <i>Power System Transformation and Utilities of the Future [Room Celestún]</i>

	<ul style="list-style-type: none"> • <i>Public-Private Consortia for Advanced Clean Energy Technology Research [Room Mérida II & III]</i>
17:00 – 17:45	<p>CEM Awards Ceremony [Open Session] [Room Yucatán I & II]</p> <ul style="list-style-type: none"> • Award for outstanding achievement in energy-efficient electric motors – presented as the SEAD Global Efficiency Medal • Award for outstanding achievement in smart grid innovation – presented as the ISGAN Award of Excellence: Smart Grids for Renewable Energy Integration • Recognition of the Clean Energy Education and Empowerment (C3E) International Ambassadors.
17:45 – 18:45	<p>Reception with Ministers and Roundtable Participants [By Invitation]</p>
18:45 – 21:30	<p>Ministers’ Dinner</p> <p>Separate Dinner for Delegates, Roundtable Participants, and Special Guests</p>

DAY TWO – Thursday, 28 May (Closed sessions with ministers and delegates)

08:30 – 10:00	<p>2015 Prioritized Initiatives for Ministerial Focus at CEM6 [Closed Session] [Room Yucatán I & II]</p> <p>Strategic discussion and ministerial decisions on 2015 high-level, priority efforts:</p> <ul style="list-style-type: none"> • CEM Global Lighting Challenge • CEM Power System Challenge • Scaled-Up Clean Energy Solutions Center with Finance Portal <p>Introduction and discussion of ideas for prioritization at future ministerials; discussion of the process for prioritizing</p> <p>New Work Streams</p> <p>Status update and possible decision(s) on potential new CEM work streams discussed at CEM5.</p>
10:00 – 10:30	<p>Break</p>
10:30 – 12:00	<p>The “CEM 2.0” Opportunity – Discussion and Decisions [Closed Session] [Room Yucatán I & II]</p> <p>Building on the CEM’s first five years, Ministers will discuss how to scale-</p>

	<p>up the CEM’s effectiveness to further facilitate the global clean energy transformation. Key areas for potential ministerial decision-making include:</p> <ul style="list-style-type: none"> • Establish a CEM Steering Committee to provide strategic guidance to CEM efforts year-round, with specific directive to conduct due diligence on the following: <ul style="list-style-type: none"> ○ Develop a framework document to institutionalize the CEM. ○ Identify options for multi-lateralizing the CEM secretariat. • Agree on actions for increasing engagement with industry and other stakeholders. • Agree on regular review of CEM initiatives, including independent review panel. • Determine how to best track collective progress over time to prioritize areas suitable for further CEM collaboration.
12:00 – 12:30	<p>Closing and Next Steps [Closed Session] [Room Yucatán I & II]</p> <p>Ministers will conclude the meeting by reflecting on the discussions and defining next steps for taking “CEM 2.0” forward.</p> <p>Special address from the CEM7 host.</p>
12:30 – 13:00	<p>CEM Press Statements [Open Session] [Izamal Event Room]</p> <p>Statements from ministers and a moderated Q&A</p> <ul style="list-style-type: none"> • <i>CEM Ministers</i> • <i>CEM 7 host</i>
13:00 – 14:00	<p>Ministers’ Lunch</p> <p>Separate Lunch for Delegates and Special Guests</p>

CEM SIDE EVENTS* – Thursday, 28 May (See attachment for description)

Time	Room: Yucatán I & II (TBC)
14:30 – 16:00	Raising Ambition in Power System Collaboration – Hosted by the 21 st Century Power Partnership
14:30 – 16:00	Global Lighting Challenge Working Group Meeting
14:30 – 16:00	Scaled-up Clean Energy Solutions Center Working Group Meeting

ATTACHMENT 1: Side Event Descriptions

TUESDAY, 26 MAY

REmap México

Overview: REmap 2030 is IRENA's renewable energy roadmap which shows how the world can double its renewable energy share in its total energy mix by 2030. Through collaboration with countries, IRENA is now releasing country-specific roadmaps. The Mexico renewable energy roadmap prepared by IRENA and SENER focuses on the realistic potential, cost and benefits of renewables at sector and technology level between 2010 and 2030. Mexico has the opportunity to exploit its rich renewables potential to diversify its energy supply, to reduce its greenhouse gas emissions and to fight energy poverty. If Mexico followed the accelerated development of renewables proposed by REmap, it could realize a renewable energy share of 21% in total final energy consumption by 2030, compared to 10% in 2010. More importantly, this potential can be realized without additional costs.

Objectives: Provide the most up-to-date information on the potential deployment of renewables and their costs and benefits; discuss the challenges ahead in realizing these potentials; promote the debate among policy makers and other stakeholders about how the full potential of renewables in Mexico can be deployed.

Draft Agenda:

- Welcome remarks: Pedro Joaquín Coldwell, Secretary of Energy, Mexico
- Opening speech & Rethinking Energy: Towards a new power system (tentative subject_tbd): Adnan Z. Amin, Director General, IRENA
- Renewable Energy Prospects: Mexico REmap 2030 country report (tentative subject_tbd): Dolf Gielen, Director, IITC, IRENA
- The New Mexican Energy Model (tentative subject_tbd): Leonardo Beltrán Rodríguez, Undersecretary for Planning and Energy Transition, SENER
- Q&A

Powering Energy Productivity through Efficiency

Overview: The Powering Energy Productivity through Efficiency event aims to bring together high-level government, private sector, and non-governmental organization representatives to discuss how energy efficiency is being used to power economic growth through delivered energy savings and increased competitiveness in private sector institutions and governments.

The Clean Energy Ministerial (CEM), the Energy and Climate Partnership of the Americas (ECPA), the International Partnership for Energy Efficiency Cooperation are co-convening this event with Mexico's Ministry of Energy and National Commission for Energy Efficiency. This

event is being organized in partnership with the Accelerate Energy Productivity 2030 initiative, whose partners include the Alliance to Save Energy, the U.S. Council on Competitiveness, and the U.S. Department of Energy.

Audience: High-level representatives from Energy and Climate Partnership of the Americas (ECPA) and Clean Energy Ministerial (CEM) governments, C-suite private sector participants and other high-level participants from ECPA and CEM public-private roundtables (such as CEM Energy Productivity and Sustainable Urban Energy Systems roundtables, and ECPA energy efficiency roundtables). The event is open to all ECPA and CEM registrants, and open to the press.

Draft Agenda:

- Opening Keynote by TBC – 10 min
- Executive Discussion 1: Energy Productivity and Economic Opportunity – 40 min
- Distinguished Speaker – 10 min
- Executive Discussion 2: Accelerating Energy Efficiency – 40 min
- Break – 20 min
- Distinguished Speaker – 10 min
- Executive Discussion 3: Catalyzing Energy Efficiency Finance – 40 min

Speakers and Panelists:

- Santiago Creuheras Diaz Director General for Energy Efficiency and Sustainability, SENER, Mexico, and Chairman of the International Partnership for Energy Efficiency Cooperation (IPEEC)
- Odón de Buen Rodríguez, Director General, CONUEE, Mexico
- Josué Tanaka, Managing Director, Operational Strategy and Planning, Energy Efficiency and Climate Change, European Bank for Reconstruction and Development
- Peter Sweatman, Chief Executive Officer and Founder, Climate Strategy & Partners
- Maria Tapia, Sr. Investment Officer, Inter-American Development Bank
- Clay Nesler, Vice President, Johnson Controls Inc.
- Kateri Callahan, President, Alliance to Save Energy
- Adriana Salazar Cajero, Director, Energy and Natural Resources, Grupo Salinas
- Others TBC

Charting a Course for Power System Transformation in Latin America

Overview: In 21st century power systems, electricity from variable renewable sources will be delivered to consumers through smart, efficient networks and balanced by a variety of flexibility options, such as demand response, energy storage, and smart electric vehicle (EV) charging. Building and modernizing power system infrastructure to meet this challenge will require a combination of smart technology, adaptive regulation, efficient markets, and reliable grid operations—all enabled by effective government policies and regulations. Chile was the first country in recent history to implement comprehensive power sector reform. Mexico is today in

the midst of an ambitious reform transition. As powerful trends in technology, policy, financing and business models unsettle traditional models of electricity delivery, the conditions are ripe for collaboration to proactively define a pathway toward clean, reliable, resilient, and affordable power. This session will facilitate a regional dialogue on the drivers and prospects for power sector transformation in Latin America. Specific discussion themes will include capacity building for clean energy development, public policies and technical solutions for power system transformation, and technology innovation. Session presentations may be in Spanish with English translation.

Draft Agenda:

- Welcome and Opening Remarks – 15 min
- Presentation: Global Pathways of Power Sector Transformation – 15 min
- Presentation: Mexico's Power Sector Transformation – 15 min
- Roundtable Discussion: Power System Reform in Latin America - Public Policies to Promote Distributed Energy Generation – 50 min
- Break: - 15 min
- Roundtable Discussion: Increasing the penetration of renewable energies in Latin America - From de-carbonization of Isolated Power Systems to the Use of Smart Grid Technologies – 60 min
- Event Wrap-up and Closing Remarks – 10 min

Speakers and Panelists:

- Doug Arent, Executive Director, Joint Institute for Strategic Energy Analysis
- Tabaré Arroyo Currás, WWF-Internacional
- Ricardo Bracho, National Renewable Energy Laboratory
- Nader Farah – President, ESTA International
- Ing. Fernando Moscoso, Comisión Nacional de Energía Eléctrica, Guatemala
- Ing. Magaly Flores Armenta – Comisión Federal de Electricidad
- Mr. Devon Gardner, Program Manager Energy - CARICOM Secretariat
- Edmundo Gil Borja – Director General Electricity Distribution and Nuclear Resources, Secretaría de Energía, México
- Kate Hampton Executive Director, Climate Change Children's Investment Fund Foundation (CIFF)
- Dr. Ricardo Mota-Palomino – Instituto Politécnico Nacional
- Luis Muñozcano – Adjunt Director of Renewable Energies, Secretaría de Energía
- Dr. Alejandro Peraza – Director of Electricity and Renewable Energies, Comisión Reguladora de Energía, México
- Ing. Ambrosio Salazar – Centro Nacional de Control de Energía
- Dr. Jorge A. Valencia, Unidad de Planeación Minero Energética Colombia
- Efrain Villanueva Arcos, Director General de Sustentabilidad en Secretaría de Energía, México

Clean Energy Policy Innovations and Collaboration Opportunities in Latin America & Caribbean

Overview: The Clean Energy Solutions Center has successfully delivered fast response, no-cost clean energy policy assistance to government policymakers in nearly 80 countries – both within and outside of the CEM – through its “Ask an Expert” program. This assistance includes extensive support in Latin America and Caribbean for partners such as Chile, Costa Rica, CARICOM, Grenada, Mexico and Nicaragua. The Solutions Center also enables access to policy resources and tools, along with peer exchange and learning.

This side event seeks to build awareness of Solutions Center resources and expert assistance services in the Latin America & Caribbean region, and to discuss the expert assistance and capacity building opportunities for ECPA ministers. This session will also preview the CEM6 discussion on approaches and opportunities for expanding the Solutions Center to scale-up its resources and services in Latin America & Caribbean and globally.

Draft Agenda:

- Opening remarks by Secretary Moniz, U.S. Department of Energy, and TBD – 10 minutes
Presentation on Solutions Center services and assistance in the LAC region - 10 minutes
- Panel discussion on capacity building and clean energy policy assistance needs and challenges in Latin America and Caribbean - 55 minutes
- Audience Q&A - 15 minutes

Potential Speakers and Panelists:

- Moderator: Ron Benioff, NREL
- David Turk, U.S. Department of Energy
- CARICOM representative
- SENER representative
- Arnaldo Vieira de Carvalho, Inter-American Development Bank representative
- ECPA Representatives

Fossil Fuel Subsidy Reform

Overview: The Fossil Fuel Subsidy Reform session, presented by Denmark and the Global Subsidies Initiative (GSI), will highlight recent advances on fossil fuel subsidy reform in CEM countries and will discuss how to sustain the progress made, should oil prices rise again. In addition, the session will highlight the role of compensation policies to ensure the affordability of energy products for the poorest and discuss mechanisms for investing subsidy savings into clean energy solutions that help mitigate the impact of subsidy reform on end-consumers.

Draft Agenda:

- Introduction by Scott Vaughan, President, the International Institute for Sustainable Development (IISD) - 5 min
- Keynote speech by Maria Van de Hoeven , Chief Executive, IEA; global fossil fuel subsidy trends - 15 min
- Presentation by the Dr. Ernest Moniz, United States Secretary of Energy, on impact of fossil fuel subsidy on clean energy - 10 min
- Presentation by Charles Feinstein, World Bank Director of Energy & Extractives, on Estimating subsidies and design of compensation mechanisms - 10 min
- Presentations on clean energy and fossil fuel subsidy reform from national delegates from Peru, Indonesia, and Costa Rica (tbc) - 30 min
- Panel Discussion on potential mechanisms for investing subsidy savings in clean and affordable energy: on-bill financing, tax credits, direct grants, feed-in tariffs - 20 min
- Moderator: Scott Vaughan IISD-GSI

Potential Participants:

- CEM delegations
- Intergovernmental Organizations
- Representative from CEM countries' clean energy mechanisms, such as
 - **on-bill financing for energy efficiency** (e.g. Fideicomiso para el Ahorro de Energía Eléctrica, Secretariat of Energy, SENER, Mexico)
 - **roof-top solar** (e.g. Jawaharlal Nehru National Solar Mission, JNNSM India)
 - **biofuels** (Example from CEM bioenergy initiative member country, e.g. Indonesia Biofuel Program - Ministry of Energy and Mineral Resources)

THURSDAY, 28 MAY

Raising Ambition in Power System Collaboration

Overview: At CEM6, Ministers will consider a proposal for a ‘Power System Challenge’– a shared global vision for future power systems linked to commitments for domestic and international actions critical to achieving clean, reliable, resilient, affordable and accessible power. The proposal also issues a series of challenges to CEM initiatives to facilitate implementation of these actions and to support better, more ambitious international collaboration. Please join us for a frank, informal dialogue about the path forward for CEM initiatives to take on these challenges and increase the effectiveness of our collective work.

Intended Audience:

- Delegates of CEM Initiative Lead Countries (in particular, 21st Century Power Partnership, International Smart Grid Action Network, Multilateral Solar and Wind Working Group, Electric Vehicles Initiative, and GSEP CHP DHC Working Group)
- Representatives from International Institutions (IEA, IRENA, World Bank, others)
- Interested CEM Delegates and Roundtable Participants

Agenda:

- Readout of ministerial decisions on Power System Challenge
- Opportunities for initiative action to carry implement decisions
- Broader context of international power systems cooperation and opportunities for increasing linkages to CEM initiative work

For questions, comments or additions to the agenda, please contact Daniel.Noll@hq.doe.gov.

Global Lighting Challenge Working Group Meeting

Overview: At CEM6, Ministers will consider a proposal for the CEM Global Lighting Challenge to achieve cumulative sales of [10] billion high-efficiency, high-quality and affordable advanced lamps and lighting systems as quickly as possible. Interested government representatives are invited to participate in a working meeting to discuss next steps for the Global Lighting Challenge, including formalization of the Working Group, tasks, and timelines.

Intended Participants:

- CEM Global Lighting Challenge Working Group members
- Country representatives interested in either joining the Global Lighting Challenge Working Group or learning more about the Challenge and the Working Group
- Relevant private sector representatives interested in learning more about the Challenge

Agenda:

- Readout of ministerial decisions on Global Lighting Challenge
- Identify next steps for Working Group
- Discuss with private sector participants ways to engage the private sector throughout the Global Lighting Challenge
- Timeline

For questions on the agenda, please contact Gabrielle.Dreyfus@hq.doe.gov.

Scaled-up Clean Energy Solutions Center Working Group Meeting

Overview: This meeting will convene CEM government officials and partners to discuss outcomes from the CEM6 discussion of the proposed scale-up of the Solutions Center and identify appropriate next steps. This will include review of approaches for expanding delivery of clean energy policy expert assistance, for development of the new finance elements of the Solutions Center, for cooperation with the Climate Technology Center and Network, and other similar outcomes from the CEM6 dialogue. This discussion will also identify how CEM governments and partner institutions are interested in engagement in and support of these expanded activities and deepening cooperation with the Solutions Center.

Agenda

- Review Outcomes from CEM6 Discussion of Solutions Center Scale-up and Meeting Goals, *Ian Lloyd, US Department of Energy*
- Discussion of Scale-Up Approach – including scope of activities, next steps, partners, and support, *Moderated by Ron Benioff, Director of Clean Energy Solutions Center*
 - Expert Assistance expansion
 - Clean Energy Finance Solutions Center
 - Collaboration with Climate Technology Center and Network
 - Other key outcomes
- Discussion of Steps for Expanding Collaboration and Participation in the Solutions Center, *Moderated by Ron Benioff*
- Closing Remarks, *Ian Lloyd*

For questions on the agenda, please contact Ian.Lloyd@hq.doe.gov.