

Clean Energy Ministerial: CEM10, CEM year-round work and approaches

3rd Universal Meeting of TCPs, 18-19 June 2019

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CEM10: Main impressions



2500+
Participants

200 Delegates to clean energy women breakfast

20+ CEM side events

60+ Youth leaders to clean energy youth forum

5 High-level roundtables

100+ companies for clean energy exhibitions

Innovative design elements pioneered by Canada



Youth Program

GENDER PRINCIPLES



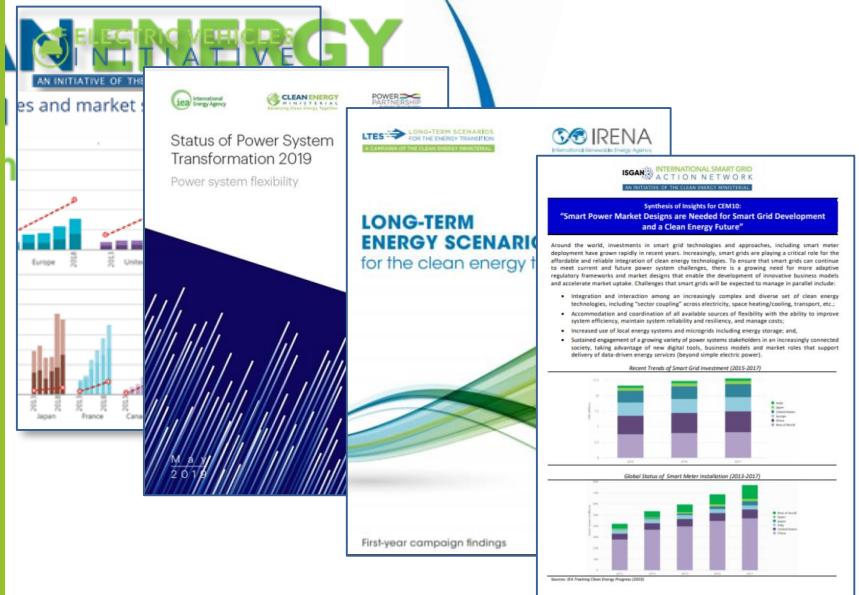
An impactful, operational Ministerial with guidance to many CEM workstreams

10th CEM Ministerial meeting



Annual Ministerial meeting gives direction to the technical work

Examples of CEM workstream deliverables this past year



Year round technical work informs Ministerial discussions & domestic follow-up

...with substantial themes and many operationally focused events

Multiple side events draw inputs from CEM work streams

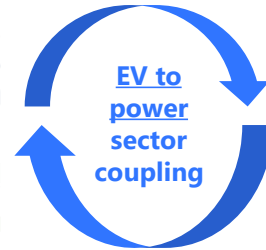


New ideas, new work – new energy carriers, wider efficiency efforts



Shared leadership increasing, incl. from emerging economy CEM Members

Horizontal accelerator – collaboration of CEM work streams on sector coupling



CEM Community and Key Features



Observers at CEM9



New Observer at CEM10



Ministerial meetings coupled with year round technical work



CEM9 - 2018
EU and 4 Nordics



CEM10 - 2019
Canada



CEM11 - 2020
Chile

Year round technical work

Global analysis

Global Energy Outlook 2018
Electric Power
ISGAN
Power System
ation 2018
Power Plant Flexibility

In-country work

USAID
GREENING THE GRID:
Pathways to Integrate IT, Geomatics of Renewable
Energy into Power System Grid, with a National Study

SEAD
Baseline Evaluation and Policy Implications for
Indonesia
"Highly Efficient" "Clean Grid" "Smart Grid" / "Low
Loss" / "Low Voltage" / "Grid Upgrade"

SPOTLIGHT ON
CUSTOMER ENGAGEMENT
AND EMPOWERMENT



In-country technical workshops



Industry and government dialogues



High-level policy discussions

Efforts are country-led and supported by world-class organisations

<p>21st CENTURY POWER PARTNERSHIP AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL</p>			<p>HYDROGEN INITIATIVE AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL</p>
<p>ISGAN INTERNATIONAL SMART GRID ACTION NETWORK AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL</p>			<p>C3E INTERNATIONAL ADVANCING GENDER EQUALITY TOGETHER AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL</p>
<p>LTES LONG-TERM ENERGY SCENARIOS FOR THE CLEAN ENERGY TRANSITION A CAMPAIGN OF THE CLEAN ENERGY MINISTERIAL</p>			<p>CLEAN ENERGY SOLUTIONS CENTER AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL</p>
<p>POWER SYSTEM FLEXIBILITY A CAMPAIGN OF THE CLEAN ENERGY MINISTERIAL</p>			<p>CLEAN ENERGY INVESTMENT AND FINANCE AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL</p>
<p>REGIONAL & GLOBAL ENERGY INTERCONNECTION AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL</p>			<p>CARBON CAPTURE, UTILIZATION & STORAGE ACCELERATING CCUS TOGETHER AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL</p>
<p>NICE NUCLEAR INNOVATION: Future CLEAN ENERGY AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL</p>			<p>SUSTAINABLE CITIES ECO-ENERGY TOWNS AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL</p>
<p>ELECTRIC VEHICLES INITIATIVE AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL</p>			<p>EV30/30 INCREASING UPTAKE OF ELECTRIC VEHICLES A CAMPAIGN OF THE CLEAN ENERGY MINISTERIAL</p> <p>安亭·上海国际汽车城 Anting · Shanghai International Automobile City</p>
<p>ENERGY MANAGEMENT WORKING GROUP AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL</p>			<p>EQUAL30 GENDER EQUALITY IN THE CLEAN ENERGY SECTOR A CAMPAIGN OF THE CLEAN ENERGY MINISTERIAL</p>
<p>SEAD SUPER-EFFICIENT EQUIPMENT & APPLIANCE DEPLOYMENT AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL</p>			<p>ENERGY MANAGEMENT CAMPAIGN A DRIVE TO 50,001 ENERGY-SAVING PARTNERS A CAMPAIGN OF THE CLEAN ENERGY MINISTERIAL</p>

Types of CEM/TCP cooperation

- **TCPs are partners of CEM work streams**
 - ETSAP is a partner in CEM LTES
 - HEV TCP and AFC TCP are partners in CEM EVI
- **CEM work streams join TCPs**
 - CEM SEAD used to participate in 4E TCP
- **CEM and TCP create a common joined structure**
 - ISGAN is both a CEM Initiative and a TCP
 - C3E used to be a CEM Initiative and at CEM 9 was restructured to also become a TCP

CEM/MI collaboration

- **CEM Members agreed on closer logistics collaboration**
 - and no scheduling conflicts between the CEM and MI events
- **Substantive collaboration is encouraged where countries express interest**
 - and should be done using a bottom up approach.
 - ISGAN and MI's Smart Grid Innovation Challenge have established close collaboration
- **CEM and MI have very distinctive and different missions (requiring different policy responses) which need to be recognised.**

Example: The Long-Term Energy Scenarios Campaign (LTES)

Lead countries



Current country members:



Operating Agent



- Goal: Promote wider adoption and improved use of long-term model-based energy scenarios
- Share best practices/ experiences
- 11 participating countries

Current technical partners:



The European Commission's
science and knowledge service
Joint Research Centre



CEM broader partnerships: Power System Flexibility Campaign example

Lead countries



Current country members



Operating Agent



- Goal: build momentum amongst industry and governments to enhance power system flexibility through the coordinated deployment of advanced power plants, grids, DSR and storage

Non-government members



CEM “clean bill of health”: review, assessments, recommendations, graduation

1. Enhance the impact of workstreams

2. Closure of workstreams

3. Coordination amongst workstreams



Global LEAP LIGHTING & ENERGY ACCESS PARTNERSHIP
AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL

NEARLY ZERO ENERGY BUILDINGS
A CAMPAIGN OF THE CLEAN ENERGY MINISTERIAL



Progress made since the CEM10 Preparatory meeting:

Group 1:	21st Century Power Partnership (21CPP) Super-efficient Equipment and Appliance Deployment (SEAD) and Advanced Cooling Challenge (ACC) Energy Management Working Group (EMWG) and Energy Management Campaign (EMC)	Green
Group 2:	Sustainable Cities and Eco-energy towns Clean Energy Solutions Center (Solutions Center)	Red, Yellow
Group 3:	Global Lighting and Energy Access Partnership (Global LEAP) Nearly Zero Energy Buildings (NZE)	Green, Yellow
Group 4:	Regional and Global Energy Interconnection (RGEI) Initiative CEM Investment and Finance (CEM-IF)	Red, Green
Other workstreams	International Smart Grid Action Network (ISGAN) Accelerating the Adoption of Distributed Generation in Strategic Regions Power System Flexibility (PSF) Long-Term Energy Scenarios for the Clean Energy Transition (LTES) Nuclear Innovation: Clean Energy Future (NICE Future) Initiative Electric Vehicle Initiative (EVI) and EV30@30 Clean Energy Education & Empowerment (C3E) and Equalby30 Carbon Capture, Utilisation and Storage Initiative (CCUS)	Green, Yellow, Green

■ off track in terms of follow-up to the Prep CEM recommendations
 ■ some progress made but need to accelerate the efforts
 ■ on track in terms of follow-up to the Prep CEM recommendations

Continuity in Ministerial hosting: Next year the first South American host



Conclusion

- An impactful CEM ministerial incorporating a key defining feature of CEM, ie. **linking the yearly Ministerial meeting with its operational, technical year-round work.**
- CEM10 brought interest in **new areas of work within CEM:**
 - New energy carriers (Hydrogen Initiative, side event on biofuels)
 - Efforts tackling deeper decarbonisation of industry
 - Stronger emphasis on energy efficiency of appliances, heating and cooling (SEAD)
 - Horizontal accelerator of EV coupling with power systems (21CPP, EVI, ISGAN, PSF collaboration).
- Furthering the **“shared leadership” approach** amongst CEM Member, including via key emerging economy CEM Members.
- The CEM is **gradually enlarging** with new Members, new Observers, and new technical partners. Mindful of its still manageable size going forward. Opportunity to collaborate with TCPs.
- Emphasis on further **consolidation of CEM workstreams**, increasing impact and outcomes. Mandate for closure of workstreams who have run their course. With its “clean bill of health” CEM can be an example for others.