



MARCH  
20-22

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JANEIRO

## CEM & MI IN RIO

Clean Energy Ministerial 14 Senior Officials Meeting  
Mission Innovation 8 Annual Gathering

**MI Advance Pre-read – Annex 2**

**21 February 2023**



**MISSION  
INNOVATION**

## DRAFT PROGRAMME OF MI AND JOINT MI/CEM SIDE EVENTS

During the Joint Day on Tuesday 21 March, a number of side events/breakouts will take place in between the plenary sessions. In addition to dedicated Breakthrough Agenda events, others were selected on the merit of their cross CEM/MI nature or potential. Some will take place in parallel (see block agenda).

**Please note that this programme is subject to change.**

### Breakthrough Agenda

The Breakthrough Agenda is the first joint project between CEM and MI. Launched by world leaders at COP26, it has aims to ensure clean technologies are the most affordable and accessible option by 2030. In practice, this work focuses on facilitating effective international collaboration by ensuring join-up between clean energy initiatives, reinforcing the central position of CEM and MI in the climate ecosystem, reviewing progress towards the breakthrough goal each year and channeling political support behind a set of priority actions in response to the report recommendations. There will be **four Breakthrough Agenda side events on this day**; the first is a broader horizontal session. The thematic events on Hydrogen, Steel and Power each aim to reach a shared understanding of progress against Priority Actions and the direction of travel.

### 1. The Future of Climate Collaboration

This event will be designed to update members on the Breakthrough Agenda and the plans for 2023. A central theme will be COP28 – the UAE as incoming COP28 Presidents recently launched a partnership with the Breakthrough Agenda. This partnership means the actions spotlighted by the Breakthrough Agenda – including many of the Mission Innovation missions and CEM workstreams – will be the foundation of UAE's COP28 Presidency.

### 2. Hydrogen

At COP27, countries agreed to prioritize collaboration on a set number of Hydrogen sector including crowding in support behind MI-Clean Hydrogen Mission and CEM-Hydrogen Mission. This roundtable would be to discuss progress against the delivery of these actions

– including identifying the key delivery points/milestones this year and identifying what more can be done to make affordable renewable and low carbon hydrogen globally available by the discussion would have a particular focus on R&D and demand creation. The discussion can be flexible to include what other contributions CEM and MI can do and does contribute to the clean hydrogen sector, and how this may be brought into the Breakthrough Agenda process.

### 3. Steel

At COP27, countries agreed to prioritize collaboration on a set number of steel sector including crowding in support behind MI-NZIM and CEM-IDD. This roundtable would be to discuss progress against the delivery of these actions – including identifying the key delivery points/milestones this year and identifying what more can be done to make Near-zero emission steel the preferred choice in global markets by 2030. The discussion would have a particular focus on definitions and standards, demand creation and R&D.

### 4. Power

At COP27, countries agreed to prioritize collaboration on a set number of power sector including crowding in support behind MI-GPFM and CEM-ISGAN. This roundtable would be to discuss progress against the delivery of these actions – including identifying the key delivery points/milestones this year and identifying what more can be done to make clean power most affordable and reliable option for all by 2030. The discussion would have a particular focus on R&D and infrastructure (including gaining support constructive to developing principles for developing interconnectors), knowledge, and skills.

### Bioresources/Biorefineries

There is an ongoing interest in application of sustainable bioresources for fuels and chemicals. A coherent and synergetic approach is required to utilize our resources in an optimal way. MI Integrated biorefineries looks into conversion of bioresources into chemicals and fuels, but also in an improved enabling environment for these applications. CEM Biofuture Initiative and Campaign support the development of an improved enabling environment by different workstreams and campaign. MI Shipping, Zero emission Industries need biofuels for realising their ambition MI CDR in one of its approaches looks



into Biobased Carbon sequestration and storage and could include Biorefineries. Each of these initiatives will share their scope and work plans in advance of the meeting. This will result in an overview and a proposal for collaboration will be prepared and discussed, to allow for clear decisions about next steps in the collaboration.

### **CHM Workshop - Hydrogen Exchange Program and Enabling Environment Working Groups**

MI's CHM's Hydrogen Exchange seeks to transfer and share knowledge with and between non-MI countries to enable policymakers to have rapid insights to start and accelerate the development of their hydrogen economy. Therefore, the Mission will set up a series of workshops in 2023 that will cover the following topics Presentation of Hydrogen Valley projects as best practice examples, Regulation & Institutional Framework, Technological developments, Certification of green/clean hydrogen, Funding & Investment and Hydrogen Project development.

This joint workshop is organized by members from Chile and Germany in collaboration with the H2UPPP Programme on behalf of the German Federal Ministry for Economic Affairs and Climate Action in the GIZ Brazil and OLADE.

The first regional focus will be the region of Latin America. In this first session the plans for 2023 will be presented as well as best-practice examples from the region.

### **“LIFE” – A fair green transition throughout lifestyle changes: what enabling conditions**

The side event will bring together relevant governments and CEM and MI initiatives to share and exchange on their experiences. It will focus on how a fair energy transition requires and will require a significant cultural and behavioural adaptation of workers and citizens, with an unprecedented change in the way we produce, consume and live. Policies and technologies alone will not be sufficient to deliver the deep decarbonisation of the energy sector, as the change will permeate in all sectors of society: from workers in energy intensive industries as well as other sectors, to households' consumption patterns, a fair energy transition needs the joint support of multiple layers of society. Those changes are essential to reduce our energy demand and to foster the energy transition. This will also led to a wider societal resilience.

### **Biofuture Campaign/Future Fuels**

This event will consider how the Clean Energy Ministerial can enable cross-cutting work across multiple CEM initiatives and related Mission Innovation initiatives. Specifically, this event will investigate how the Biofuture Platform Initiative, CCUS Initiative, Hydrogen Initiative, the Mission Innovation Zero Emission Shipping initiative, MI Biorefineries Mission, and MI ISAF Mission can enable increased production and use of renewable fuels across its many potential uses. This event will explore roles that the CEM and MI can play to enable productive government interventions to reduce barriers to the sustainable production and use of renewable, low-carbon fuels.

### **Special Session – Latin America Regional Energy Transition**

For all attendees, this interactive session will provide insights on energy transition in LATAM region, including the opportunities on clean energy technology innovation to deployment spectrum. Combination of presentations and interventions.

### **Special Session – Spotlight on Brazil's Energy Transition**

During this session, the meeting hosts Brazil will shine a light on progress towards its clean energy transition. In view of the important role this country will play in 2024 as host of the CEM and MI Ministerial meetings, as well as the G20, members will be able to witness the advances that Brazil is making in terms of both innovation and deployment of clean energy technologies.

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