



ERA Forum Standing Subgroup on the Global Approach

MULTILATERAL PLATFORMS: MISSION INNOVATION
5 October 2023 09:30-12:30



1

AGENDA

- **INTRODUCTION TO MISSION INNOVATION**
 - The ambition
 - Organizational structure
 - The 7 MI Missions
 - The innovation Platform
 - The role of the EC in Mission Innovation
- **SENIOR REPRESENTATIVE MEETINGS**
 - Key announcements of the eight Mission Innovation Ministerial (MI- 8/CEM14) in Goa, India
- **EXPECTATIONS FOR COP28**
- **AOB**





2



Mission Innovation (MI) is a global initiative of 23 countries and the European Union, with the aim to accelerate efforts in clean energy innovation globally.

It was launched at COP21 in Paris and the European Commission, acting on behalf of the European Union, joined the initiative in 2016. Today MI members represent **over 95% of global government investment in clean energy research and innovation**.

MI works in close partnership with Clean Energy Ministerial (CEM), which seeks to shape the global clean energy agenda and advance the deployment of specific clean energy technologies and solutions.



3

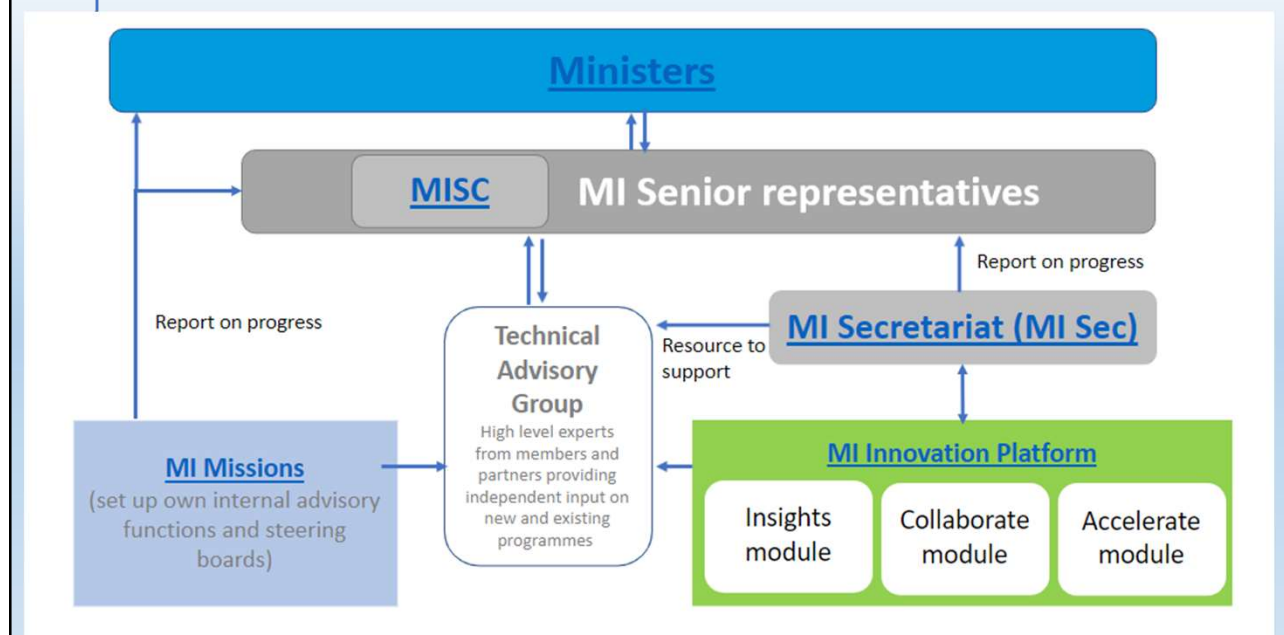
MI MEMBERS AND PARTNERS

Mission Innovation is a global initiative of 23 countries and the European Commission (on behalf of the European Union).

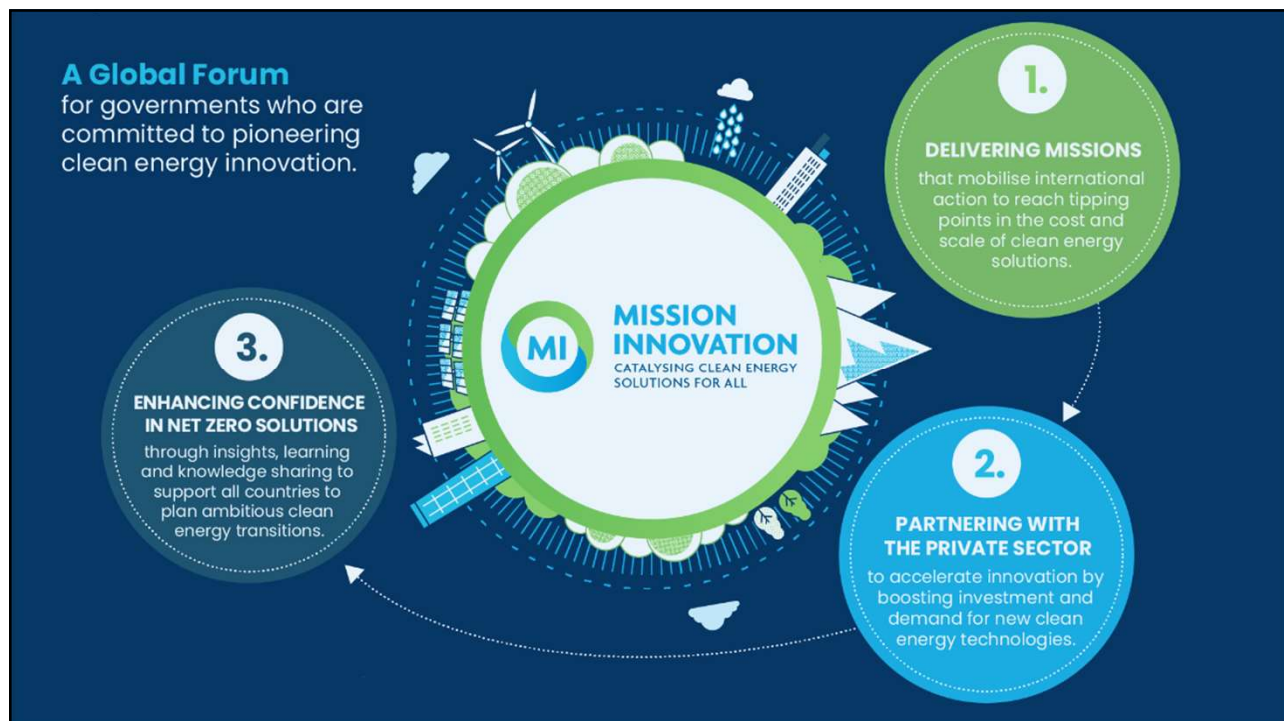
Australia	Finland	Norway
Austria	France	South Korea
Brazil	Germany	Saudi Arabia
Canada	India	Spain
Chile	Italy	Sweden
China	Japan	United Arab Emirates
Denmark	Morocco	United Kingdom
European Union	Netherlands	United States

4

ORGANISATIONAL STRUCTURE



5



6

MI HAS 7 MISSIONS



Mission Innovation is driving global action across seven Missions to reach tipping points in the cost and scale of solutions for the most difficult decarbonization challenges.



Collaboration and investment through the Missions will tackle sectors responsible for over half of global greenhouse gas emissions, with **members projected to invest at least \$250bn in innovation by the end of the decade.**



7

INNOVATION PLATFORM

The objective of the Innovation Platform is to enhance global confidence in emerging clean energy solutions.



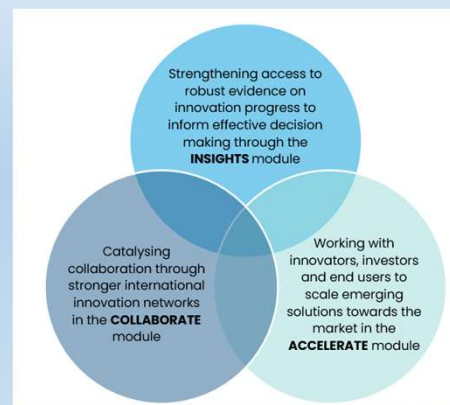
Tracking innovation progress
National Innovation Pathways
Technical Advisory Group
Think-tank



Innovation Communities
MI Call Series
Funders dialogue



CleanTech Incubator



<http://mission-innovation.net/platform>



8

EU MEMBERS INVOLVEMENT IN MI ACTIVITIES

Missions	Co-Lead	Core Group	Support Group
Zero-emission shipping			
Clean hydrogen		    	
Green powered future			   
Carbon dioxide removal			
Urban transitions		  	
Net Zero industries		  	
Integrated biorefineries			
Innovation Platform Collaborate			
International Sustainable Aviation Fuels		  	
Materials for Energy		  	
Affordable Heating and Cooling of Buildings		  	



9

THE ROLE OF THE EUROPEAN COMMISSION IN MI

The EC currently plays a key leadership role in MI by:

- co-leading two missions – **Clean Hydrogen** and **Urban Transitions**;
- through its commitment in and contribution to the governance of MI, MI Secretariat and its Technical Advisory Group

*EC's active involvement in MI aligns with the broader strategy for **EU external energy engagement**, and reinforces the commitment to collaborate with international partners to collectively develop the green energy solutions needed for a sustainable future.*

9 EU Member States are independent MI members



10

SENIOR REPRESENTATIVE MEETINGS



Senior representatives from MI Members are encouraged to participate in two Senior Representative meetings per year:

- The **Annual MI Gathering**, typically held 'in-person' early in the calendar year to share progress, take stock, and bring forward strategic decision items impacting MI. Topics discussed could include, for example, new MI initiatives (Missions, Platform), resourcing, Membership, and governance.
- The **MI Ministerial meeting** to review progress, explore further collaboration, and commit to concrete deliverables to accelerate the pace of clean energy innovation. It provides a platform for Ministers, governments, private sector, thought leaders and influencers to have an open, productive conversation on the next steps needed to advance clean energy innovation. It is hosted in tandem with the Clean Energy Ministerial (CEM). Holding the two events concurrently provides a unique opportunity to showcase the full continuum of the innovation spectrum, including research, development, demonstration and deployment.



11

MI ANNOUNCEMENTS IN GOA



The eight Ministerial (MI- 8/CEM14) took place in Goa on 19th -22nd July 2023, alongside G20 Energy Ministers' meeting, with July 21st reserved for Ministerial plenaries, roundtables and key announcements. A few key announcements from Mission Innovation:

- **Global investment in clean energy innovation** in the hardest to abate sectors has **increased** of 0.75B\$ (7%) since the launch of MI 2.0 in 2021.
- Incubators from around the world are invited to join **the Gigaton Opportunity**, supporting startups that have the potential to avoid 1 Gt of emissions by 2030.
- **Launch of an Innovation Community on Sunlight to X.**
- Through MI's Innovation Platform, MI has launched the **Think Tank** to deliver a programme of member-driven workshops and events that will foster knowledge sharing



12

MI MISSIONS ANNOUNCEMENTS AT MI-8

Clean Hydrogen Mission

- The Mission calls on countries to help **identify 17 additional hydrogen valley projects to help meet the Mission target of 100 projects** by 2024 that can be implemented by 2030 (e.g. ahead of schedule / by the end of the year).
- Pre-announcement of a Joint Funding Call Module with the Clean Energy Transition Partnership.

Net-Zero Industries Mission

- **Launch of MI Net-Zero Industries Award** in three categories: projects & solutions, young talents and female innovators. It will recognise outstanding individuals and projects who make an important contribution in decarbonising the industry. The winners will be awarded at COP28.

Integrated Biorefineries Mission

- **Joint Call for collaboration** to support the development of new bio-based fuels, chemicals, and materials as well as the development of more efficient biorefinery processes – including through joint programming with industry with the aim of public-private funding for projects.

Urban Transitions Mission

- The UTM has launched a **new open call for cities to join the cohort**, which will consist of 250 cities in total.
- Launch of the **Urban Transitions Mission Centre** - a global knowledge exchange platform, empowering cities to shape their energy transition.

Green Powered Future Mission

- The GPFM has identified **80 national pilot projects fully aligned with the Mission's priorities** as part of their goal of establishing five continental demonstrators with up to 80% variable renewable energy by 2024.
- Pre-announcement of the **Joint Funding Call module** (Clean Energy Transition Partnership-Green Powered Future Mission) within the "Multilateral Research Programme". The call is expected to open in September 2023.

Carbon Dioxide Removal Mission

- Soft launch of **CDR Mapping Initiative** to address data gaps for CDR technologies and enhancing the collective understanding of local and global CDR potential.



13

EC ANNOUNCEMENTS IN MI-8

- ☐ Promote joint **MI Calls for urban transitions and for hydrogen** through our Clean Energy Transition Partnership.
- ☐ Identify a selected number of flagship projects, supported by an EU funding programme, within each mission area. It will feed into a **publication on success stories** showcasing the linkages between the European projects and the MI Missions.
- ☐ Showcase - at ministerial level - a selection of **clean energy demonstration projects ready for deployment** with the potential to have a concrete impact on our day-to-day life (they should also feed into the IEA clean energy demonstrators database).
- ☐ Showcase the work of the EIC under the Scale up 100 action in the light of the MI announcement of the [Gigaton Challenge](#).
- ☐ Demonstrate concrete deliverables of joint CEM/MI activities, in particular in biorefineries and hydrogen, emphasising the importance of smooth transition from innovation through demonstration to deployment (e.g. developments related to the European Hydrogen Bank).



14

MI EXPECTATIONS FOR COP28

Objective: for MI to be a delivery agent of priority actions from COP, to be an implementer of solutions and be the leading initiative in representing clean energy innovation priorities

Approaches:

1. Embedding innovation in the COP process

- Working with the Breakthrough Agenda to support the delivery of the priority actions
- Publication of the MI Member Insights, linked to the Global Stocktake
- Working with the negotiating process to ensure strong language around innovation is embedded wherever possible

2. Breaking down barriers and moving the dialogue forwards

- Hosting a Business to Government roundtable on barriers to scaling up innovation
- Member driven innovation programme (e.g. **EC event on Global cooperation to accelerate clean energy transitions in Mission Innovation – focus on access to finance**)
- Collaboration with IRENA on hosting a session focused on capacity building in practice

MI COP taskforce

- Those familiar with the COP process from member government and partner organisations
- Aiming to steer MI plans for COP, creating a clear narrative that sets the tone for all MI related announcements and makes MI stand out in the huge landscape of organisations at COP



15

OUR PRIORITIES FOR COP28

The European Commission is planning a few clean energy innovation related events at COP28, that fall perfectly into one of the four key ambitions identified by the United Arab Emirates, as COP28 hosts: “Fast-tracking the energy transition and slashing emissions before 2030”. In particular, it is worth mentioning the following side events:

- “Climate-neutral cities: implementation, governance and finance”
- “Global hydrogen economy”
- “Global cooperation to accelerate clean energy transitions in Mission Innovation – focus on access to finance”

→ Final stages of negotiations of a **proposal of collaboration between Mission Innovation and the European Investment Bank**. We foresee the possibility to announce such collaboration at COP28.



16



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