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| **MI Newsletter November 2023** |

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| **Mission Innovation at COP28** |
| From November 30 – December 12, COP28 will bring countries together in Dubai, UAE to take stock of global progress on the Paris Agreement in the first Global Stocktake and align the efforts needed on climate action to bridge the gaps in progress.Fittingly, Technology & Innovation is one of four crosscutting themes underpinning COP28’s program, content and speakers this year. The continued acceleration of clean energy innovation is critical to achieve our energy and climate goals. In 2021, nearly 50% of the emissions reductions needed to reach net zero by 2050 depended on technologies that were not yet available on the market. However, thanks to recent progress, that number has now decreased to around 35% according to the IEA's [2023 update to their Net Zero Roadmap](https://urldefense.com/v3/__http%3A/0sgqq.mjt.lu/lnk/AWoAAC0v79wAAAAAfzAAAANl0wQAAAAAFXAAACIjABozNABlTlROp0mV4LxSQ8KDUCztXVeeLAAZSWc/5/BQQ5hOVlAc1vNMC6J7VGFw/aHR0cHM6Ly93d3cuaWVhLm9yZy9uZXdzL3RoZS1wYXRoLXRvLWxpbWl0aW5nLWdsb2JhbC13YXJtaW5nLXRvLTEtNS1jLWhhcy1uYXJyb3dlZC1idXQtY2xlYW4tZW5lcmd5LWdyb3d0aC1pcy1rZWVwaW5nLWl0LW9wZW4__;!!D9dNQwwGXtA!WajNe39DolnHqHEOdTQ79CDj5SkEjJ_zDdn1X-L_V683rz6eUGAaXT57vLSyswuKQRPd_5BO06P61wg-e2rwaclb0disU3T6B_4T$).  We need to keep working across borders and sectors to drive clean energy innovation forward on a global scale.Mission Innovation is working closely with the COP28 Presidency, Breakthrough Agenda, IRENA, IEA, Climate Action and negotiation workstreams to ensure that innovation remains a top global priority.  Mission Innovation is also delighted to be a partner of the [Climate Action Innovation Zone](https://urldefense.com/v3/__http%3A/0sgqq.mjt.lu/lnk/AWoAAC0v79wAAAAAfzAAAANl0wQAAAAAFXAAACIjABozNABlTlROp0mV4LxSQ8KDUCztXVeeLAAZSWc/6/xcUyxxebZav8q_5fD9g6WQ/aHR0cHM6Ly9lbmdhZ2UuY2xpbWF0ZWFjdGlvbi5vcmcvZXZlbnQvaW5ub3ZhdGlvbi16b25l__;!!D9dNQwwGXtA!WajNe39DolnHqHEOdTQ79CDj5SkEjJ_zDdn1X-L_V683rz6eUGAaXT57vLSyswuKQRPd_5BO06P61wg-e2rwaclb0disUzuskGqR$) - an inclusive, free to attend, platform for cross-sector collaboration at COP28. From Monday 4th - Friday 8th December at the Madinat Jumeirah Conference Centre, it will bring together thousands of leaders and practitioners from business, finance, cities, governments and civil society to drive climate action at speed and scale.  Don’t miss out on Mission Innovation’s involvement at COP28! We’ve highlighted the key sessions where you can find our participating Missions,  Members, Collaborating Organizations, and Event Partners below. And stay tuned - we will send out another newsletter with an updated MI Agenda in a few weeks to include any additional events.  |

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| **MI Schedule at COP28** |
| **Saturday, 2nd December****18:30-20:00,** SE Room 3, “Innovation and clean energy for international aviation and shipping”* This side event will discuss how the development and deployment of renewable energy for international aviation and shipping, the associated implementation support to States, and green financing will define the pathway towards reducing carbon and GHG emissions from international aviation and shipping.

**Monday, 4th December****9:00-18:00**, Climate Action Innovation Zone, Madinat Jumeirah Conference Centre, “Sustainable Innovation Forum 2023”* The leading multistakeholder sustainability conference alongside COP28, bringing together global climate leaders to promote transformative innovation and tangible climate action to help us go further, faster together.
* [Registration link.](https://urldefense.com/v3/__http%3A/0sgqq.mjt.lu/lnk/AWoAAC0v79wAAAAAfzAAAANl0wQAAAAAFXAAACIjABozNABlTlROp0mV4LxSQ8KDUCztXVeeLAAZSWc/7/SBG1DQjug3c-9LQkfWnRdg/aHR0cHM6Ly9ldmVudHMuY2xpbWF0ZWFjdGlvbi5vcmcvc3VzdGFpbmFibGUtaW5ub3ZhdGlvbi1mb3J1bS9yZWdpc3RyYXRpb24vZ3Vlc3QtcGFzcy1wYXJ0bmVyLz9zaWZfcGFydG5lcnNfMjM9TWlzc2lvbiUyMElubm92YXRpb24__;!!D9dNQwwGXtA!WajNe39DolnHqHEOdTQ79CDj5SkEjJ_zDdn1X-L_V683rz6eUGAaXT57vLSyswuKQRPd_5BO06P61wg-e2rwaclb0disUywD9fFa$)

**11:30-13:00**, Italian Pavilion, “Mission Innovation Green Powered Future Mission: National pilot projects for net zero power systems”* This event will represent a great opportunity for the Green Powered Future Mission to showcase its main achievements and progress towards Flagship Project FP1 “5 demos in five continents”.
* In particular, the event will feature:
	+ Opening remarks by the Italian Special Envoy for Climate Change and the Vice Chair of Mission Innovation
	+ IEA Keynote speech on electricity grids and clean energy transitions
	+ Highlights from the “National Pilots Report” released in July at CEM14/MI-8 in Goa
	+ Launching of the GPFM demo version of the internet-based knowledge-sharing Platform, the “GPFM Toolbox”, and releasing of the GPFM Annual Report 2023
	+ Roundtable with Italian and international GPFM members from governments, industry, and RTOs to discuss on the first launched R&I pilots and demos and key innovation programmes.

**17:30-19:00**, Arena 1 Al Hur, “International Finance Sectoral Assistance high-level event”* This Breakthrough Agenda event will convene countries, financiers and experts in industry, hydrogen and road transport to explore how new collaborative efforts are enabling holistic planning, unlocking system transitions and mobilising private finance at scale in the Global South.

**Tuesday, 5th December****9:00-18:00**, Climate Action Innovation Zone, Madinat Jumeirah Conference Centre, “Sustainable Innovation Forum 2023”* The leading multistakeholder sustainability conference alongside COP28, bringing together global climate leaders to promote transformative innovation and tangible climate action to help us go further, faster together.
* [Registration link.](https://urldefense.com/v3/__http%3A/0sgqq.mjt.lu/lnk/AWoAAC0v79wAAAAAfzAAAANl0wQAAAAAFXAAACIjABozNABlTlROp0mV4LxSQ8KDUCztXVeeLAAZSWc/8/h_A808Aa38j-RmnWSsmeBw/aHR0cHM6Ly9ldmVudHMuY2xpbWF0ZWFjdGlvbi5vcmcvc3VzdGFpbmFibGUtaW5ub3ZhdGlvbi1mb3J1bS9yZWdpc3RyYXRpb24vZ3Vlc3QtcGFzcy1wYXJ0bmVyLz9zaWZfcGFydG5lcnNfMjM9TWlzc2lvbiUyMElubm92YXRpb24__;!!D9dNQwwGXtA!WajNe39DolnHqHEOdTQ79CDj5SkEjJ_zDdn1X-L_V683rz6eUGAaXT57vLSyswuKQRPd_5BO06P61wg-e2rwaclb0disU97QLQm9$)

**10:30-11:40,** Technology & Innovation Hub, “Innovation for a smart electrification of energy demand / Renewable solutions to decarbonise end-use sectors”* The electrification of end-use energy sectors will drive the global decarbionisation, including transport via electric vehicles and e-fuels for ships and airplanes, and electrified industrial process in hard-to-abate sectors like steel and chemical. This session will feature innovators, who contributed to the IRENA Innovation Week, presenting the exciting innovations ahead of us to electrify and decarbonize the hard-to-abate sectors.

**10:30-11:30,** Lab 2 Al Jeer, “COP Presidency Event on Greening the Grid: Public-Private Roundtable building the foundations of the future energy system”* Scaling up electricity grids is the fundamental enabler of the energy transition and meeting our 2030 global renewables target. This roundtable will bring government, industry, finance, and civil society together to fast-track solutions to create a future energy system fit for renewables.

**12:30-14:00,** Climate Action Zone, Arena 1 (Al Hur), “Breakthrough Agenda Ministerial: Accelerating Sector Transitions”* This event is a critical opportunity for Ministers and global civil society and business leaders to discuss solutions and next steps to accelerate the innovation and deployment of clean technologies needed to meet the Paris Agreement goals and respond to the Global Stocktake.

**12:30-14:00,** Climate Action Zone, Arena 1 (Al Hur), “Breakthrough Agenda Ministerial (Energy + Industry)”* High-level convening of Ministers from key Breakthrough Agenda countries alongside high-profile non-state actors. Event will spotlight the new Buildings and Cement & Concrete Breakthroughs and the new Priority Actions for 2024 in each sector.

**13:00,** Norwegian Pavilion “Prospects and Challenges for a Clean Hydrogen Economy”* This panel discussion will tackle the question of what solutions and policy frameworks are needed to scale up green hydrogen use in industry and establish a credible market.

**14:00,** Lab 2 (Al Jeer), “COP Presidency and Power Breakthrough event on grids”* This session will be one of three headline events under the COP28 Presidency's energy agenda, specific to grids and infrastructure, and will function as a key enabler of the 2030 global renewables target.

**15:00-16:00,** Mobility Pavilion, “Green Hydrogen Financing Toolbox Roundtable”* This event will bring together financiers, funds, and international initiatives to discuss the solutions and instruments necessary for climate change mitigation in the context of green hydrogen.

**16:30-17:30,** WTO Trade House Pavilion, “Steel Standards Principles: Unlocking Trade and the Global Market”* The world’s leading standards bodies, steel producers, industry associations and international organisations and initiatives are uniting on the Steel Standards Principles which set out the rationale and common principles for alignment of emissions measurements standards for a near zero steel industry.

**17:30-19:00**, Italy Pavilion, “Innovation Catalysts: Powering cities on a mission towards net zero”* The event will provide a platform to discuss readily available solutions, explore ongoing cooperations between Missions Innovation’s Urban Transitions and Green Powered Future Missions and countries, as well as needs and innovation gaps, to respond to the most urgent challenges faced by cities to accelerate the implementation of their net-zero pathways.

**18:30-20:00**, SE Room 6, “Accelerating the ZEV Revolution: Moving towards an emission-free future through global leadership and collaboration”* Stakeholders from across the road transport sector will convene to take stock of demand signals and international commitments needed to meet the goals of the Paris Agreement and consider how to accelerate the transition in emerging markets and developing economies as guided by the Road Transport Breakthrough.
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| **Wednesday, 6th December****9:00-18:00,** Climate Action Innovation Zone, Madinat Jumeirah Conference Centre, “Sustainable Finance Forum 2023”* Hosted by Climate Action, PRI and UNEP FI, the event will be one of the biggest finance sector events held alongside COP28, bringing together banks, insurers and investors to accelerate finance towards a nature-positive, net-zero, and equitable global economy.
* [Registration Link](https://urldefense.com/v3/__http%3A/0sgqq.mjt.lu/lnk/AWoAAC0v79wAAAAAfzAAAANl0wQAAAAAFXAAACIjABozNABlTlROp0mV4LxSQ8KDUCztXVeeLAAZSWc/9/95HvITcxNN6NARv-7sCP8w/aHR0cHM6Ly9ldmVudHMuY2xpbWF0ZWFjdGlvbi5vcmcvc3VzdGFpbmFibGUtZmluYW5jZS1mb3J1bS9yZWdpc3RyYXRpb24vZ3Vlc3QtcGFzcy8__;!!D9dNQwwGXtA!WajNe39DolnHqHEOdTQ79CDj5SkEjJ_zDdn1X-L_V683rz6eUGAaXT57vLSyswuKQRPd_5BO06P61wg-e2rwaclb0disU7wZ4XYW$)

**11:00-12:00**, Global Innovation Hub, “Delivering on the urban transition: multi-level partnerships and innovation responding to core human needs”* This session will provide a platform for UTM cities to share their challenges to reach a net-zero, resilient future, and elaborate on their vision on how, by working with the Urban Transitions Mission, they have advanced their climate action journey and progressively future-proofing climate action implementation. UTM city representatives and partners of the UNFCCC Global Innovation Hub will present the first results of the ongoing pilots and cooperation, showcasing innovative approaches tested to meet and satisfy the core human needs identified by the pilot cities engaged.

**11:30-12:30,** Lab 1 Al Shaheen, “COP Presidency & Road Transport Breakthrough high-level event on charging infrastructure”* This interactive workshop organised by the Road Transport Breakthrough in collaboration with ICCT, CALSTART and WBCSD will focus on how countries and private sector are working towards an expeditious and effortless rollout of EV charging infrastructure for transport.

**12:00-13:00,** Presidency Theatre, “Buildings and Construction for Sustainable Cities: New Key Partnerships for Decarbonisation, Adaptation and Resilience”* The launch of the Buildings Breakthrough, Cement Breakthrough and the Forest and Climate Leader’s Partnership’s Greening Construction with Sustainable Wood initiative at this event will be pivotal in accelerating systems transformation in the buildings and construction sector, and help unlock intergovernmental and multi-level collaboration to support mitigation, climate adaptation and resilience.

**15:30-17:00,** Italian Pavilion, “3DEN Initiative: implementing tomorrow’s smart power systems”* The event will be an opportunity to share visions for the policy and technology context needed to enable smarter power systems of tomorrow. And to present initial findings from demonstrations and projects on ways to leverage digitalisation towards power system decarbonisation and gather their insights on opportunities to further accelerate implementation and amplify impact.

**Thursday, 7th December****9:00-18:00**, Climate Action Innovation Zone, Madinat Jumeirah Conference Centre, “Hydrogen Transition Summit 2023”* Connecting 500 global hydrogen leaders to unify the rapidly developing and multi-faceted hydrogen value chain to scale the clean hydrogen economy.
* [Registration link.](https://urldefense.com/v3/__http%3A/0sgqq.mjt.lu/lnk/AWoAAC0v79wAAAAAfzAAAANl0wQAAAAAFXAAACIjABozNABlTlROp0mV4LxSQ8KDUCztXVeeLAAZSWc/10/6TT2KOW30KD2I8_ucj44mQ/aHR0cHM6Ly9ldmVudHMuY2xpbWF0ZWFjdGlvbi5vcmcvdHJhbnNpdGlvbi1zdW1taXRzL2h5ZHJvZ2VuL3JlZ2lzdHJhdGlvbi9ndWVzdC1wYXNzLXBhcnRuZXIvP2h0c19wYXJ0bmVyc18yMz1NaXNzaW9uJTIwSW5ub3ZhdGlvbg__;!!D9dNQwwGXtA!WajNe39DolnHqHEOdTQ79CDj5SkEjJ_zDdn1X-L_V683rz6eUGAaXT57vLSyswuKQRPd_5BO06P61wg-e2rwaclb0disU_GLpaSr$)

**Friday, 8th December****9:00-18:00**, Climate Action Innovation Zone, Madinat Jumeirah Conference Centre, “Hydrogen Transition Summit 2023”* Connecting 500 global hydrogen leaders to unify the rapidly developing and multi-faceted hydrogen value chain to scale the clean hydrogen economy.
* [Registration link.](https://urldefense.com/v3/__http%3A/0sgqq.mjt.lu/lnk/AWoAAC0v79wAAAAAfzAAAANl0wQAAAAAFXAAACIjABozNABlTlROp0mV4LxSQ8KDUCztXVeeLAAZSWc/11/SmQkBiwvPLkpCHq1JoxT6w/aHR0cHM6Ly9ldmVudHMuY2xpbWF0ZWFjdGlvbi5vcmcvdHJhbnNpdGlvbi1zdW1taXRzL2h5ZHJvZ2VuL3JlZ2lzdHJhdGlvbi9ndWVzdC1wYXNzLXBhcnRuZXIvP2h0c19wYXJ0bmVyc18yMz1NaXNzaW9uJTIwSW5ub3ZhdGlvbg__;!!D9dNQwwGXtA!WajNe39DolnHqHEOdTQ79CDj5SkEjJ_zDdn1X-L_V683rz6eUGAaXT57vLSyswuKQRPd_5BO06P61wg-e2rwaclb0disUw61Iob0$)

**10:00-16:30,** Hariot-Watt University, Campus in Dubai, “Industrial Decarbonisation: International pathways to Net-Zero Industry”* The UK’s Industrial Decarbonisation Research & Innovation Centre (IDRIC) and Mission Innovation’s Net-Zero Industries Mission (MI NZI) are co-hosting two workshops:
	+ 10.00-12.30: Technology Innovation to and from Emerging Economies: Deep Decarbonisation of Industry
	+ 14.00-16.30: Place-Based Collaboration for Industrial Decarbonisation: Sharing International Experience
	+ Interested individuals are asked to register for the event via e-mail to info@idric.org. Please indicate in your e-mail which workshop you would like to attend. Participation in both workshops is encouraged.

**14:35-15:25,** Technology & Innovation Hub, “Transition in Practice: Leveraging Mission Innovation for Developing Countries "* The session explores how developing countries can leverage the benefits of MI's initiatives and what actions are necessary to facilitate the transfer of knowledge.

**15:00-16:00,** Australian Pavilion, “MI Net-Zero Industries Champions Award 2023”* The awarding ceremony for the Net-Zero Industries Champions Award will celebrate the winners in three categories: Young Talents, Female Innovators and Outstanding Projects

**Saturday, 9th December****11:30-13:00,** Blue Zone, SE Room 4, “The 2023 IMO GHG Strategy: Defining the global level-playing field for shipping decarbonization”* Explores the implications of the strengthened levels of ambition for the shipping sector, renewable energy's response to the IMO GHG Strategy

**16:30-17:30,** Trade Pavilion, “International trade in green hydrogen: Supporting the transition to a low-carbon economy"* This event deliberates how smart trade policies can support the challenges and bolster opportunities in the green hydrogen sector, especially for developing countries, and to share ideas for strengthening international cooperation and alignment of regulatory frameworks for technology. development, enhanced transparency, and market growth.
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