

14th CLEAN ENERGY MINISTERIAL (CEM14) OUTCOMES AND ANNOUNCEMENTS

19-22 July 2023 Goa, India



Above: Ministers and Heads of Delegation at the CEM14 and MI-8 Ministerial meeting



INTRODUCTION

The Government of India hosted the 14th Clean Energy Ministerial (CEM14) and the 8th Mission Innovation (MI-8) Ministerial meeting in Goa from 19 -22 July 2023, bringing together Ministers and other delegates from the global clean energy community, including governments, international organisations, business and industry, expert organisations, think tanks, academia and youth organisations - for one of the largest global clean energy events of the year.

The Ministerial was hosted by the Ministry of Power and the Ministry of Science and Technology, organized by the Bureau of Energy Efficiency (BEE) and Department of Science and Technology (DST), and supported by the PowerGrid Cooperation of India. Under the theme 'Advancing Clean Energy Together', this was a pivotal moment to bring together the clean energy community to reflect on the status of clean energy innovation and deployment and identify the action that needs to be taken to accelerate clean energy together.

To achieve this, Ministerial-level discussions were coupled with a rich and diverse [programme of events](#) which included CEO-Ministerial roundtables/high-level dialogues, over 75 thematic side events organised by the clean energy community, an impressive Technology Showcase, an Electric Vehicle Rally and a broad range of networking and cultural events. Across all elements of the CEM14/MI-8 programme, CEM members and the CEM's workstream community showcased their achievements and ambition on issues related to power systems, clean fuels, transport, industry, buildings and empowering society.

This document summarises some of the key outcomes and announcements from CEM14, demonstrating CEM's role in providing:

- **Clean Energy Impact:** to convene the right stakeholders to ensure that clean energy solutions can be implemented holistically at the national, regional and international levels;
- **Clean Energy Insights:** to identify the key clean energy challenges and share experiences on the best way to address them; and
- **Clean Energy Inspiration:** to showcase the success of CEM's workstreams, increase the level of ambition and make our tools available to the largest possible audience.

Some of the key outcomes and announcements from CEM14/MI-8 include:

Impact

- **Release of CEM Impact Brochure** Celebrating 14 Years of Advancing Clean Energy Together;
- Official Launch of **new Clean Energy Marine Hubs Initiative** led by Canada, Norway, Panama, Uruguay and the United Arab Emirates in partnership with the International Chamber of Shipping.
- Official Launch of **new International Hydrogen Trade Forum** with participation from Australia, Belgium, Canada, Chile, Germany, Japan, Saudi Arabia, South Korea, the Netherlands, United Arab Emirates, United Kingdom, United States, Uruguay and the European Commission on behalf of the European Union.
- CEM's **Biofuture Platform and associated campaign reach benchmark of 60 members** from across government and industry.
- **Launch of impact reports** showcasing the progress of the Industrial Deep Decarbonisation Initiative (IDDI) and Green Public Procurement (GPP) campaign.

- **Release of new policy toolkit** by the **Empowering People Initiative (EPI)** for integrating skills and workforce considerations into policymaking.
- Celebration of the **5th anniversary of the Equalby30 campaign**, having reached nearly **200 signatories worldwide**, and the release of a **self-assessment toolkit** to help signatories assess their impact.
- Agreement between **CEM's ISGAN initiative** and **MI's Green Powered Future Mission** to **strengthen their collaboration** through joint webinars and workshops to increase impact.

Insights

- Official release of the **BloombergNEF Energy Transition Factbook** produced exclusively for CEM14.
- Acknowledgement by CEM members of the need for **further work on Battery Storage** and to continue discussions on a possible new CEM workstream.
- Presentation of 21st Power Partnership's **new action plans** and next steps for decarbonising the power sector.
- Release of **ISGAN's new policy briefs** on grid planning and unleashing the full potential of electrical grids.
- Formal launch of the new **Advanced Nuclear Energy (LANE) Working Group**, as part of the NICE Future initiative, and commitment to produce a second volume of case studies demonstrating the social and economic impact of advanced and innovative nuclear technologies.
- Publication of **a report and three policy briefs from the Transforming Solar Initiative** on building solar manufacturing capacity and addressing issues such as policy coordination, technology transfer and standards harmonisation.
- **Launch of two new reports** from the **CCUS initiative**, taking stock of CCUS deployment and CCUS project financing.

Inspiration

- **Brazil announces that CEM15 and MI-9 will be held in the Brazilian city of Foz do Iguaçu in September 2024**, alongside its G20 Presidency. Brazil also announces that it will become an official member of the workstreams Transforming Solar, Industrial Deep Decarbonisation Initiative and Clean Energy Marine Hubs Initiative.
- **Kingdom of Saudi Arabia invites the CEM community to showcase their work at MENA Climate Week** in Riyadh from 8-12 October 2023 and at **KSA's COP28 Pavilion** and announces new funding for the CEM Secretariat.
- ISGAN recognises global examples of the use of Artificial Intelligence in Smart Grids through its 9th Award of Excellence.
- The **Energy Management Leadership Awards (EMLA)** celebrates successes of those demonstrating sustainable practices through their use of ISO 50001.
- Launch of **Call for Applications for the 2023 Hydrogen Twin Cities programmes**, establishing mentor-mentee relationships for cities seeking to establish hydrogen infrastructure and related technologies.
- Increased commitment to electric vehicles from the **Netherlands as a new co-lead of the Electric Vehicle Initiative** and **France as a new signatory to the Zero-Emission Government Fleet Declaration**.
- Announcement of the **new cohort of 22 global Ambassadors of the Equality Initiative** to provide role models and champions for women in the energy sector.

DETAILED LIST OF ANNOUNCEMENTS BY SECTORS

CROSS-CUTTING ANNOUNCEMENTS	6
CEM15/MI-9 and G20 Host Announcement by Brazil’s Energy Minister	6
KSA confirms additional support for the work of the CEM	6
Release of BloombergNEF Energy Transition Factbook	7
CEM releases CEM Impact Brochure	7
New Head of CEM Secretariat in Goa for CEM14	7
CLEAN TRANSPORT AND FUELS.....	8
Launch of Clean Energy Marine Hubs Initiative.....	8
Launch of International Hydrogen Trade Forum	8
Open Call for 2023 H2 Twin Cities	9
Netherlands takes up role as co-lead in EVI	9
France signs up to Zero-Emission Government Fleet Declaration	9
CEM Biofuture Platform and Campaign reaches benchmark of 60 members	9
CLEAN POWER AND EFFICIENCY	10
CEM Members build momentum towards a potential workstream on Battery Storage	10
21CPP releases new action plans and next steps for decarbonising the power sector	10
Transforming Solar releases Report, Policy Briefs and welcomes Brazil as newest member	11
ISGAN releases new policy briefs	11
Winners of ISGAN Award 2023 announced.....	11
Winners of EMLA Award 2023 announced.....	11
NICE Future launches Leaders in Advanced Nuclear Energy (LANE)	12
NICE announces Second Volume of RISE3D	12
SEAD issues series of knowledge products.....	12
Cross workstream collaboration on power sector announced	12
DECARBONIZING INDUSTRY.....	13
Brazil joins the Industrial Deep Decarbonization Initiative (IDDI)	13
IDDI Green Public Procurement (GPP) Pledge shares status update	13
IDDI releases Progress Report	13
CCUS releases two reports on Global Developments and Finance	13
ENABLING ENVIRONMENT.....	14
EPI releases new policy toolkit, partners with Linkedin and plans new report on skills for energy efficiency.....	14
Equalby30 Campaign celebrates 5-year anniversary and launches new self-assessment tool..	14
Support for the CEM’s Equality Initiative’s continues to grow.....	14

KEY ANNOUNCEMENTS FROM MEMBERS AND PARTNERS..... 15

US Updates on US\$ 94 Bln Clean Energy Technologies Demonstration Challenge..... 15

Brazil and Sweden newest members to join Carbon Management Challenge 15

UNIDO launches Call to Action for Unlocking Financing for Industrial Decarbonization 16

IEA releases new report on Transitioning India’s Road Transport Sector 17

IEA Launches new Tracking Clean Energy Progress Report..... 17

IEA releases Clean Energy Demonstration Database and Clean Energy Technology Guide 17

ReNew signs MoUs worth US\$ 7.8 billion for Green Energy Projects at CEM14/MI-8 17

Juniper Green Energy signs MOU worth US\$ 611 million with Power Finance Corporation for Renewable Energy Projects Financing in India 18

ACME Group signs MOU for US\$ 488 million from REC for Oman green hydrogen project..... 18

India launches new e-Fast India Website 18

India and GIZ launch District Cooling Guidelines..... 18

India releases new report on Battery Recycling Ecosystem 19



CROSS-CUTTING ANNOUNCEMENTS

CEM15/MI-9 and G20 Host Announcement by Brazil's Energy Minister

The Brazilian Minister of Mines and Energy, H.E. Alexandre Silveira, announced that the 15th Ministerial Meeting of CEM and the 9th Ministerial Meeting of Mission Innovation will be held in September 2024, in the Brazilian city of Foz Do Iguaçu, back-to-back with the G20 Energy Transition Ministerial Meeting (ETMM) and with support from Itaipu Binacional. They invited the CEM and MI communities to work with them on an action and impact-oriented agenda that would consolidate the CEM and MI as a platform for action. Watch Brazil's CEM15/MI-9 official hosting video announcement [here](#).



KSA confirms additional support for the work of the CEM

His Royal Highness Prince Abdulaziz bin Salman Al Saud, Minister of Energy for the Kingdom of Saudi Arabia (KSA) reiterated their ongoing commitment to the CEM and announced additional support for the CEM's work. This included:

- New funding to support the work of the CEM Secretariat;
- An invitation to the CEM community to showcase their work and expand their outreach at the [MENA Climate Week](#) which will take place in Riyadh from 8-12 October 2023;
- An invitation to the CEM community to organise events on topics related to clean energy technologies at KSA's COP28 Pavilion;
- Opportunities for closer collaboration between CEM workstreams and the King Abdullah Petroleum Studies and Research Centre (KAPSARC), a leading advisory think tank on global energy economics and sustainability; and
- Participation in the new International Hydrogen Trade Forum launched at CEM14.



Release of BloombergNEF Energy Transition Factbook

Bloomberg Philanthropies and BloombergNEF released its CEM flagship report produced exclusively for the 14th Clean Energy Ministerial. The report illustrates the critical progress the world is making in the transition to net-zero emissions. It identifies key trends in the development and deployment of clean energy, including wind power, photovoltaics, electric vehicles, and technologies in earlier stages of development, such as hydrogen and sustainable aviation fuels. It also serves as a roadmap and guide for leaders in government, business and finance in the CEM community on the path to achieving net-zero emissions from clean energy by the mid-century. Download the full Factbook [here](#).



CEM releases CEM Impact Brochure

Presented to Ministers during the CEM/MI Plenary Session at the 14th Clean Energy Ministerial, the CEM impact brochure showcases how the CEM is delivering insights, inspiration, and impact and celebrates 14 years of advancing clean energy together. Download the full impact brochure [here](#).



New Head of CEM Secretariat in Goa for CEM14

Mr Jean-François Gagné, attended the 14th Clean Energy Ministerial Meeting (CEM14) in Goa in his capacity as the incoming Head of the CEM Secretariat. He presented an update to Ministers and Heads of Delegation on the status of clean energy deployment, the role of the CEM and its workstreams in helping members to achieve their clean energy priorities, and the opportunities to increase the impact of the CEM as a global implementation platform working closely with international fora such as the G7, G20 and UNFCCC COP process. CEM14 was also an opportunity for Jean-François to attend and speak at a number of the events organised by the CEM community and to meet with many of the CEM's members and partners to discuss their priorities and goals for the exciting year ahead. Learn more about Jean-François [here](#)!



CLEAN TRANSPORT AND FUELS

Launch of Clean Energy Marine Hubs Initiative

A new initiative on [Clean Energy Marine Hubs](#) was officially launched under the leadership of Canada, Norway, Panama, Uruguay and the United Arab Emirates in partnership with the International Chamber of Shipping (ICS) and the International Association of Ports & Harbors (IAPH). The first-of-its-kind platform brings together the private sector and governments across the energy-maritime value chain to transform maritime transportation and production hubs for future low-carbon fuels. Read more about the [Marine Hubs Launch Initiative](#) and <https://www.ics-shipping.org/press-release/new-initiative-to-scale-low-carbon-fuel-production-adopted-by-ministers-at-global-energy-summit/>



Launch of International Hydrogen Trade Forum

The CEM Hydrogen Initiative's Trade Working Group has officially become the International Hydrogen Trade Forum. The Forum reflects the growing efforts of Hydrogen Initiative members to expand international collaboration in potentially important and exporting governments. To this end, a new Joint Declaration aimed at accelerating international hydrogen trade was launched by Australia, Belgium, Canada, Chile, Germany, Japan, Saudi Arabia, South Korea, the Netherlands, United Arab Emirates, United Kingdom, United States, Uruguay and the European Commission on behalf of the European Union. It will focus on accelerating international hydrogen trade and investment across the hydrogen value chain. The official launch of the new forum took place at CEM14 with a high-level declaration signed by Minister Suhail Al Mazrouei from the United Arab Emirates and Vice Minister Sandor Gaastra from the Netherlands, as the inaugural co-chairs. The first Forum is scheduled to take place later this year at COP28. Read more about it [here](#).



Open Call for 2023 H2 Twin Cities

The Hydrogen Initiative now welcomes applications for the 2023 Mentor-Mentee cities starting from 19 July to 23 October. The H2 Twin Cities 2023 initiative establishes Mentor-Mentee pairings to enable a wider dispersion of information and facilitate the relationships needed to establish global hydrogen infrastructure and technology adoption. More about the H2 Twin Cities [here](#). Please contact the Secretariat if you would like to nominate a city for consideration in the programme.



Netherlands takes up role as co-lead in EVI

The Netherlands will step up their engagement within the EVI Initiative, by becoming co-lead of the Electric Vehicle Initiative (EVI), alongside Canada, China and the US. This step reflects the Netherlands' ambitions in reducing carbon missions, including those from transport and striving to become climate neutral by 2050. It also aligns with its measures to promote electric vehicles, sustainable transport fuels, sustainable logistics and active mobility enshrined in its national Climate Agreement (2019). Read more about [EVI](#) here.



France signs up to Zero-Emission Government Fleet Declaration

France is the newest signatory to officially endorse the *Zero Emission Government Fleet Declaration*, which aims to achieve 100 percent zero-emission light-duty vehicle acquisitions of civil government-owned and operated fleets – and aspire towards 100 percent zero-emission medium- and heavy-duty vehicle acquisitions – by no later than 2035. Read more about the [Zero emission Government Fleet Declaration](#) here.



CEM Biofuture Platform and Campaign reaches benchmark of 60 members

The Biofuture Campaign continues to grow and has now announced that its membership has reached 60. Members agree to continue working together with governments and industry to accelerate the uptake of bio- and waste-based products and demonstrate how they can and will benefit society. Read more about the Biofuture Initiative and Campaign [here](#).



CLEAN POWER AND EFFICIENCY

CEM Members build momentum towards a potential workstream on Battery Storage

Recognizing the growing importance and critical need for battery storage in advancing clean energy transition, Australia, Canada, European Commission and the United States expressed interest in identifying common areas of work for a potential new workstream on battery storage, with a potential formal kick-off at COP28 in December. This topic was also part of a Ministerial-CEO Roundtable on Battery Storage, chaired by the United States and Co-Chaired by India, and moderated by Rocky Mountain Institute, that focused on current opportunities and challenges facing the uptake of utility-scale battery storage technologies, to collect insights and suggestions from key partners working on this issue, and to consider the role CEM could play in boosting the deployment of battery storage. The CEM Secretariat will continue to facilitate the cooperation amongst interested countries and collaborate with UN Secretary General's Office to also feature this work at the upcoming UN SG Climate Summit in New York in September this year.



21CPP releases new action plans and next steps for decarbonising the power sector

Australia, Chile, the European Commission, India, and the United Kingdom, as participating countries of the Clean Energy Ministerial, recognizing the critical role that decarbonised power systems play in advancing their overall decarbonisation goals and enabling decarbonisation across their energy economies, announced the release of their Action Plans and endorsed and supported the further development of Action Plans from other countries, which elucidate domestic priorities for rapid decarbonisation of power systems and advance peer to peer learning and acceleration of innovations. The United States, Canada and Brazil have announced their intention to be part of the second cohort of countries developing and implementing the Action Plan to decarbonise and transform the power sector, in the run-up to the CEM-15 in Brazil. To learn more about the action plans release, see [here](#).



Transforming Solar releases Report, Policy Briefs and welcomes Brazil as newest member

The Transforming Solar Initiative released its new Report on [Building Resilient Solar Supply Chains](#), developed with the ISA, with advice for countries and regions on how to build solar manufacturing capacity. Transforming Solar also released [three new policy briefs](#) for policy makers on the three key areas of Policy Coordination, Technology Transfer and ESG Standards Harmonization. Moreover, Brazil will formally join the Transforming Solar Initiative as participant, as announced by Brazil's Minister Alexandre Silveira.



ISGAN releases new policy briefs

The International Smart Grid Action Network (ISGAN) released “[Reimagining Grid Planning Processes for an Accelerated Energy Transition – Unleashing the Full Potential of Electrical Grids.](#)” This policy brief provides seven key messages on grid planning and is one result of the ISGAN Knowledge Sharing Project on Network Planning under Uncertainty, conducted from September 2022 to July 2023. The project engaged experts from 12 countries across three continents and included contributions from experts at the International Renewable Energy Agency (IRENA). ISGAN Knowledge Sharing Projects are a flagship activity of the initiative.



Winners of ISGAN Award 2023 announced

ISGAN announced its 9th Annual Awards of Excellence, recognising global examples of smart grid projects and approaches. This year's competition focused on "Excellence in Artificial Intelligence for Smart Grids", showcasing important new systems for grid modernisation, reliable system operation and clean energy integration. The winners were selected by an expert jury organised by ISGAN's long-standing partner, the [Global Smart Energy Federation](#). The winning project was [FlexUnity – Scaling-up Power Flexible Communities Business Models Empowered by Blockchain and AI Project](#), led by [Cleanwatts](#) (Portugal). ISGAN also awarded one runner-up and two honourable mentions. The award winners participated in a number of CEM14 side events, and ISGAN will share emerging best practices from each project in future webinars, case studies and events.



Winners of EMLA Award 2023 announced

The winners of the 2023 Energy Management Leadership Awards (EMLA) were [Coop Danmark A/S](#) from Denmark and [PT Semen Tonasa](#) from Indonesia. The Energy Management Leadership Awards recognizes those organizations that have demonstrated sustainable practices through a structured energy management system that is certified to ISO 50001, the international energy management standard. Another 15 organizations have earned the distinguished Energy Management Insight Award. The full list of winners and more information about the award can be found on [our website](#).



NICE Future launches Leaders in Advanced Nuclear Energy (LANE)

The NICE Future initiative launched the *Leaders in Advanced Nuclear Energy (LANE)* working group to explore mutually beneficial approaches to use and develop the respective capabilities of advanced and emerging nuclear nations to accelerate nuclear energy generation. LANE aims to ensure that the global take-up of nuclear technologies, including small modular reactors (SMRs), is safe, reliable, and helps to achieve global net-zero and energy transition goals. Read more about the NICE Initiative [here](#).



NICE announces Second Volume of RISE3D

The NICE future initiative announced the upcoming publication of its second volume of RISE3D case series, as part of the Research the Impacts on Social Equity and Economic Empowerment (RISE3) initiative. This series has been developed from inputs from participating countries and partner organizations, demonstrating how advanced and innovative nuclear energy technologies, such as small modular reactors, will support the clean energy transition in a variety of community contexts. It is a community-focused case series organized and managed by the NICE Future Team.



SEAD issues series of knowledge products

SEAD is one of CEM's oldest initiatives and focuses on expanding global market penetration of super-efficient appliances. Over the last two years, the Initiative has focused on doubling the efficiency of four key products (indoor lighting, industrial electric motors, residential air conditioning, and residential refrigerators) with 14 governments under the Product Efficiency Call to Action. For awareness, the following five knowledge products were recently launched with support from SEAD:

- Data on efficiency and cost of appliances and equipment in Latin America and Africa;
- Pathways analysis to support members of SEAD's Product Efficiency Call to Action;
- Model regulation guidelines for fans developed with UNEP's United4Efficiency programme;
- Results of work on technical regulations for lamps and luminaires in Central America; and
- A new Appliance Energy Efficiency Online Course for policymakers.



Cross workstream collaboration on power sector announced

In order to take advantage of existing synergies, the CEM and MI workstreams on power have agreed to further strengthen collaboration, including the organisation of joint webinars and regional workshops to share best practices and lessons learned. This builds on the successful examples of ISGAN's work with MI's Green Powered Future Mission and the joint report 'Lesson Learned for Rapid Decarbonisation of Power Sectors' coordinated by 21CPP for the Global Clean Energy Action Forum in 2022, with subsequent action plan implementation released in Goa.

DECARBONIZING INDUSTRY

Brazil joins the Industrial Deep Decarbonization Initiative (IDDI)

Brazilian Minister of Mines and Energy, H.E. Alexandre Silveira, announced that Brazil will join IDDI this year. IDDI is designed to stimulate global demand for low-carbon industrial materials. It works to standardize carbon assessments, establish ambitious public and private sector procurement targets, and incentivize investment into low-carbon product development and design industry guidelines. Brazil is joined in this initiative by Canada, Germany, India, Japan, the Kingdom of Saudi Arabia, Sweden, the United Arab Emirates, the United Kingdom, and the United States.



IDDI Green Public Procurement (GPP) Pledge shares status update

UK, Germany, and Canada have announced the results of national consultations and commitment levels within IDDI. The update is available [here](#). The Industrial Deep Decarbonisation Initiative (IDDI)'s Green Public Procurement (GPP) Pledge is a commitment by governments to put in place measures to ensure that all steel, cement and concrete used in public procurement construction projects are low-emission by 2030 and to monitor progress against this goal. So far, the GPP pledge has been made by 3 CEM members and the initiative is seeking 5 new endorsements from CEM members this year. More information [here](#).



IDDI releases Progress Report

Since its launch at COP26, IDDI members have made great progress in achieving its aim to deliver industrial decarbonization, starting within the construction sector, by stimulating new demand for low and near zero emission steel, cement and concrete. As part of that process, the members undertook a stocktake of the initiative and its three pillars: green public procurement, low and near zero emissions material definitions, and embodied carbon data reporting. Read the report [here](#).



CCUS releases two reports on Global Developments and Finance

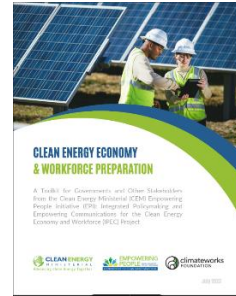
CCUS released two reports on [Financing Principles for Carbon Management](#) and [Global Overview of CCUS Policies and Programmes](#), which synthesize the community's working groups and technical exchanges over the past year on two crucial elements of CCUS: as stock take on CCUS Member government deployment efforts and a report highlighting further steps needed to finance CCUS projects.



ENABLING ENVIRONMENT

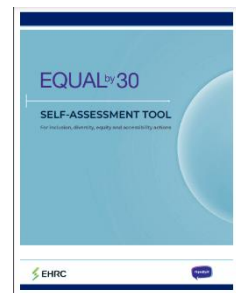
EPI releases new policy toolkit, partners with LinkedIn and plans new report on skills for energy efficiency

EPI launched a new toolkit, collecting resources and feedback from the 2023 Solution Summits on Integrated Policymaking and Empowering Communications for the Clean Energy Economy and Workforce (IPEC). Participants in the Summit came from the governments of more than one hundred countries, as well as from employers, organised labour, education and the preparation of the workforce, local and regional governments and civil society. Download the policy toolkit [here](#). EPI also announces LinkedIn as its newest member and a new collaboration with the IEA on a report on *Empowering the Workforce of the Future - Skills for Energy Efficiency*.



Equalby30 Campaign celebrates 5-year anniversary and launches a new self-assessment tool

At CEM14, the [Equalby30 campaign](#) celebrated its 5-year anniversary and continues to highlight the role of women in the energy sector and the need for equal pay, equal leadership and equal opportunities. To mark this important anniversary, the campaign launched a [Self-Assessment Tool](#) to help Equalby30 signatories evaluate their progress on implementing equity, diversity, accessibility, and inclusion practices within their workforce. The international self-assessment tool can be accessed [here](#). Moreover, under Canada's leadership, the campaign has reached almost 200 signatories including 18 governments, 18 international organisations and non-profits and 55 associations and has been featured by Canada, Germany and the United Kingdom under their G7 Presidencies. The International Renewable Energy Agency (IRENA) was the latest organisation to express their interest in the campaign at the *Igniting Change: Breaking Down Barriers to Gender Equality* event organised in Goa.



Support for the CEM's Equality Initiative's continues to grow

Support for the mission of the Equality in Energy Transitions Initiative (Equality Initiative) continues to grow, with Switzerland and the India Smart Grid Forum (ISGF) as the most recent joiners. The initiative's global [Ambassador programme](#) is also thriving under the leadership of the United States and seeks to attract and inspire the next generation of women leaders in the clean energy sector by providing role models and champions for women in the energy sector. By CEM14, 22 new Ambassadors had been added to the 2022-2024 cohort which now includes representatives from Australia, Austria, Brazil, Chile, Ghana, Tanzania, the United Kingdom and the United States. The programme is still accepting nominations and is open to all CEM members.



KEY ANNOUNCEMENTS FROM MEMBERS AND PARTNERS

US Updates on US\$ 94 Bln Clean Energy Technologies Demonstration Challenge

Last Year at the U.S. hosted Global Clean Energy Action Forum, [16 countries announced](#) they had collectively mobilized US\$ 94 billion for clean energy technology demonstrations as part of the CEM 13/MI-7 (see [CEM 13/MI-7 Factsheet](#)). The Clean Energy Technologies Demonstration Challenge showed the collective force CEM/MI can make when they work towards a joint goal. One year later, a number of countries have followed up at the India-hosted CEM14/MI-8 to share their progress. So far more than US\$ 33 billion has been allocated towards clean energy demonstration projects. This includes



- **Australia** has committed to providing over US\$ 860 million in funding to the Australian Renewable Energy Agency for projects in the areas of hydrogen, electric vehicles, industrial decarbonisation, community batteries, community microgrids and sustainable aviation fuels.
- **Canada's** update that over half of their original commitment has been allocated for clean energy demonstration projects;
- the **European Union** has invested billions through the Horizon Europe programme moving key technologies to market readiness, InvestEU which contributes to the production of over 4,716 MW of electricity from renewable energy sources, as well as funding for the 3rd Large-Scale Call of the Innovation fund;
- **Norway's** contributions have led to progress in their Longship CCS project including on storage and transport through project "Northern Lights" which is now 80 percent complete and continued support to the development of hydrogen hubs and use of hydrogen and innovative technologies in industrial facilities as well as heavy-duty EVs and corresponding infrastructure;
- and the **US'** announced funding that has exceeded their original investment by US \$3 billion and will push to accelerate deployment, market adoption, and equitable transition to a decarbonized energy system.

The US looks forward to holding the first Clean Energy Technologies Demonstration Challenge Taskforce meeting in the coming months to discuss reporting framework to track continued progress.

Brazil and Sweden newest members to join Carbon Management Challenge

Brazil and Sweden joined the Carbon Management Challenge (CMC), a global effort launched by Australia, Canada, Denmark, Egypt, the European Union, Japan, Norway, the Kingdom of Saudi Arabia, the United Arab Emirates, the United Kingdom and the United States at the April Major Economies Forum. Canada, the United Kingdom and the United States announced they would co-sponsor the initiative and invited others to join them in leading the effort. Participants will call on other governments to join the CMC by COP28, and on



the private sector to play a leadership role in deploying carbon management technologies.

The CMC aims to accelerate the use of carbon capture, utilization and storage and carbon dioxide removal technologies as a necessary complement to the aggressive deployment of zero-carbon energy and energy efficiency. The International Energy Agency (IEA) estimates that we must manage 1.2 Gt of CO2 annually by 2030 to limit global warming to 1.5°C above preindustrial levels.

The CMC builds on MI’s Carbon Dioxide Removal Mission and CEM’s CCUS Initiative to accelerate the use of carbon management technologies. Countries and implementation partners are invited to join the CMC ahead of its official launch at COP28.

UNIDO launches Call to Action for Unlocking Financing for Industrial Decarbonization

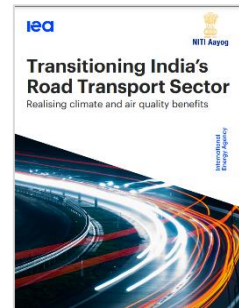
UNIDO invites partners in the government, private sector, financial institutions, and civil society to commit to collaborative action to unlock financing for industrial decarbonization in developing countries and emerging economies. The [call to action](#) builds on the high-level dialogue from CEM14 and focuses on mobilizing finance to:

- Develop national transformation pathways to climate-neutral industry by 2050 through the adoption of medium and long-term targets, roadmaps and investment plans for reducing GHG emissions in key industrial sectors,
- Adopt common rules and guidelines for the emissions data underpinning global markets including life cycle assessments, product category rules, and harmonized definitions and standards for low-carbon material,
- Create a pipeline of projects, especially in developing and emerging economies, and facilitate international collaboration on the implementation of breakthrough decarbonization technologies, and
- Generate and share knowledge on available technology solutions for decarbonizing the industrial sector and tools for de-risking investments in such technologies.



IEA releases new report on Transitioning India's Road Transport Sector

Commissioned by India's strategic think-tank NITI Aayog, IEA release a new report that provides a detailed picture of how CO₂ emissions from road transport are likely to grow under existing policies, and compares these projections with a pathway that could bring the sector on track to meet the 2070 target. It discusses various policy options that the country could consider to accelerate the shift to sustainable road transport, focussing on the benefits that energy efficiency improvements and a switch to cleaner energy sources can bring. The report also quantifies the co-benefits a rapid decarbonisation of road transport can bring in terms of tackling air pollution - one of India's most pressing environmental challenges. Download the full report [here](#).



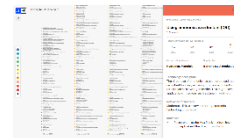
IEA Launches new Tracking Clean Energy Progress Report

IEA launches new [Tracking Clean Energy Progress report](#) that assesses recent developments for over 50 components of the energy system that are critical for clean energy transitions. The components assessed include sectors, subsectors, technologies, infrastructure and cross-cutting strategies. This report is part of the IEA's support of the first global stocktake of the Paris Agreement, which will be finalized in the run up to COP28.



IEA releases Clean Energy Demonstration Database and Clean Energy Technology Guide

IEA releases its new [ETP Clean Energy Technology Guide](#), an interactive database of over 550 individual technology designs and components across the whole energy system that contribute to achieving the goal of net-zero emissions. For each of these technologies, it includes information on the level of maturity and a compilation of development and deployment plans, as well as cost and performance improvement targets and leading players in the field. This report is part of the IEA's support of the first global stocktake of the Paris Agreement, which will be finalized in the run-up to COP28.



ReNew signs MoUs worth US\$ 7.8 billion for Green Energy Projects at CEM14/MI-8

India's leading decarbonisation solutions company, [ReNew Energy Global Plc](#) (ReNew), signed MoUs worth INR 640 billion (approx. US\$ 7.8 billion) with Power Finance Corporation (PFC) and Rural Electrification Corporation (REC) for its green energy projects at the Clean Energy Ministerial meeting in Goa. ReNew is among the top companies to have signed agreements with the two leading financial institutions in India and will utilize the funds for new projects including solar, wind, hybrid, energy storage, solar modules and cells manufacturing and green hydrogen. Read more about it [here](#).



Juniper Green Energy signs MOU worth US\$ 611 million with Power Finance Corporation for Renewable Energy Projects Financing in India

At CEM14, [Juniper Green Energy](#) signed an MOU with Power Finance Corporation Limited (PFC) worth US\$ 611 million (Rs. 5,000 crores) for Juniper Green Energy's upcoming 1200 MW renewable energy projects. This partnership positions Juniper Green Energy on a promising trajectory with plans to cross 4000 MW capacity by 2027. Currently, Juniper Green Energy has an existing portfolio of approximately 800 MW, with a further 435 MW under construction. They also have an extensive development pipeline of over 3000 MW of solar, wind and hybrid projects in various stages of development. With this new funding, Juniper Green Energy is poised to make a significant impact on the country's clean energy landscape. Read more [here](#).



ACME Group signs MOU for US\$ 488 million from REC for Oman green hydrogen project

On the margins of CEM14, ACME Group signed a MOU for a US\$ 488 million (Rs 4,000 crore) loan from state-owned REC Ltd for its green hydrogen and ammonia project in Oman. The amount will be used to commence the first phase of the project, to be established at the Special Economic Zone (SEZ) in Duqm, Oman, a company statement said. Once the first phase is ready, about 100,000 tonnes of green ammonia is expected to be produced per annum initially, which will subsequently go up to 1.2 million tonnes a year. The project will be powered by a 5.5-GWp solar PV plant and have the capacity to generate 3.5 GW electrolyser. Read more [here](#).



India launches new e-Fast India Website

The Government of India announced the launch of a new website, [e-FAST India \(Electric Freight Accelerator for Sustainable Transport – India\)](#), the country's first platform to facilitate collaboration between government stakeholders and private sector partners – Original Equipment Manufacturers (OEMs), Logistic Service Providers (LSPs), financiers, manufacturers and Charge Point Operators (CPOs) – to develop policies and actions that support freight electrification at scale.



India and GIZ launch District Cooling Guidelines

The Indian [Bureau of Energy Efficiency](#), [Deutsche Gesellschaft für Internationale Zusammenarbeit \(GIZ\) GmbH](#) and [Alliance for an Energy Efficient Economy](#) unveiled a new [District Cooling Guidelines](#), developed as part of the [Energy Efficient Cooling \(EE-Cool\)](#) project between Germany and India. The Guidelines shed light on to emphasize the importance of District Cooling Systems (DCS) in offering a modern and efficient method for air-conditioning clusters of buildings in cities, commercial and real estate establishments, industrial parks, and educational campuses. It provides a comprehensive reference on implementing district cooling systems and offers a roadmap for facilitating DCS adoption in India.



India releases new report on Battery Recycling Ecosystem

Under the Nationally Determined Contributions-Transport Initiative for Asia (NDC TIA) India Component of the regional programme, the study Battery Ecosystem: A Global Overview, Gap Analysis in Indian context, and Way Forward for Ecosystem Development was initiated by GIZ India and carried out by Deloitte Touche Tohmatsu India LLP. The objective of the study is to ensure the sustainability of traction battery supply chain through a multi-stakeholder approach. Download report [here](#).

