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Foreword from Dan Dorner

Head of the CEM Secretariat

My deepest thanks to the entire Clean Energy Ministerial community for your excellent efforts and continued friendship in 2021. We have achieved a huge amount together.

We have seen positive progress in clean energy commitments, investments, and deployment around the world. Decision-makers have been raising their clean energy ambitions and over 80% of the global economy is now covered by net zero commitments.

CEM12, hosted by Chile in June, welcomed 100,000 participants from over 100 countries across 6 days – a new record.

Importantly, CEM12 also saw an ambitious new CEM mandate agreed by our ministers. More broadly, the CEM's work was widely cited and praised in COP26, the G20, G7, and other important international fora.

It is truly amazing to see that even against the uncertainty ushered in by COVID-19, dedication to the CEM and its mission to accelerate clean energy transitions is stronger than ever. The whole CEM Secretariat team wishes you a safe and restful end to 2021.

Next year, we look forward to working with you to raise ambitions and actions to an even higher level.

Not already a subscriber?
Sign up to our newsletter
here.



The United States has selected Pittsburgh, Pennsylvania as the host city for CEM13 and MI-7 in September 2022. Watch the launch video [here](#)!

Institutional developments in 2021

CEM 3.0

At CEM12, ministers renewed their commitment to the CEM as *the* platform for global clean energy collaboration. Our members endorsed a new phase of the CEM, CEM 3.0, and reaffirmed their mission to accelerate the energy transition by working together on the deployment of clean energy technologies. Read the Ministerial Statement [here](#).

New members

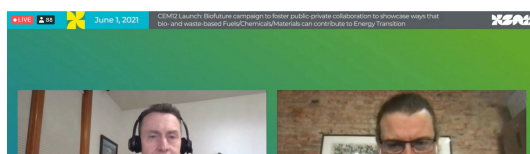
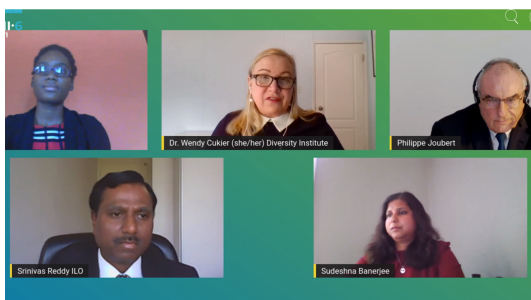
During CEM12 we were very pleased to welcome [Poland](#) and [Portugal](#) as the newest members of the CEM. Our membership now represents 29 countries, including the largest and most forward leaning clean energy economies. The CEM represents 83% of global CO2 emissions and 81% of global clean energy investment.



Workstream updates

New initiatives and campaigns

- **Industrial Deep Decarbonisation Initiative (IDDI):** India and the United Kingdom launched IDDI at CEM12, and were shortly joined by Canada, Germany and the United Arab Emirates. With the help of UNIDO as coordinator and a coalition of industry actors, IDDI aims to stimulate demand for low-carbon industrial goods. [Get in touch to learn more!](#)
- **Green Public Procurement (GPP) campaign:** IDDI's member countries launched GPP at COP26. It helps governments set ambitious targets for buying low-carbon products for building roads, bridges, schools, hospitals and other public works. [Join GPP as a partner company, organisation, government!](#)
- **Empowering People Initiative (EPI):** EPI was launched by Canada, the European Commission and the United States to draw attention to the human aspects of the energy transition by focusing on skills, workforce development, societies and inclusion. It will work with other initiatives to ensure socioeconomic considerations are reflected across the CEM's work programmes. [Learn more!](#)



- **Biofuture Campaign (BfC):** The BfC was announced at CEM12 as a campaign in association with the Biofuture Platform Initiative. Its goal is to advance the transition to a circular economy by promoting a sustainable bioeconomy. It partners with industry leaders, NGOs and the CEM community to challenge countries to substitute 10% of their 2019 fossil fuel use with bio-based fuels by 2030. Watch the launch event [here](#) and [contact us](#) to learn more!
- **Global Hydrogen Ports Coalition:** The first global forum that brings representatives from ports together with decision-makers from governments as well as industry with the view to accelerate low-carbon hydrogen deployment in coastal industrial clusters. This workstream aims to strengthen the backbone of the future of international hydrogen production, use and trade. Watch the launch event [here!](#)
- **Hydrogen Twin Cities (H2 Cities):** This campaign is a self-assembled, international community of cities that are partnering to share ideas and learn from one another. Its purpose is to build a repository of best practices in fostering an effective hydrogen economy that strengthens the global commitment to environmental justice, social equity, and clean energy jobs. Apply to join [here!](#)



Other workstream developments

- **Memorandum of Understanding for Zero Emission Medium- and Heavy-Duty Vehicles:** In partnership with the Netherlands, Drive to Zero launched its ambitious global MoU that commits signatory countries to achieving 100% zero-emission new truck and bus sales and manufacturing by 2040, with an interim goal of 30% medium- and heavy-duty vehicle sales being zero-emission by 2030. Learn more [here](#)!
- **Product Efficiency Call to Action:** 14 governments have already signed up to the [SEAD Call to Action](#) - an effort to double the efficiency of four key products (industrial motors, air conditioners, refrigerators and lighting). To support this effort, the International Energy Agency are developing an efficiency ladder framework. Sign or endorse the statement by contacting the [SEAD team](#) or the [CEM Secretariat](#)!
- **Equal by 30:** In 2021, Equal by 30, which seeks to advance the participation of women in the energy transition and close the gender gap, reached 170 signatories from 25 countries who have endorsed the campaign's [principles](#) and pledged to take action. All CEM members can join this campaign. [Contact us](#) to show your support!
- **Equal by 30:** All G7 energy ministers agreed to strengthen their commitments under Equal by 30. The UK's G7 Presidency hosted a workshop on implementing their pledges in different national contexts, with options for reporting back under Germany's G7 Presidency in 2022. With partner Diversio, the campaign harnesses AI to collect more than 62,000 data points across 9,000 employees to analyse the status of diversity and inclusion in the global energy sector. Read the [preliminary results](#) and [extended report](#) today!
- **International Smart Grid Action Network (ISGAN) Awards 2022:** Nominations are open for the 8th ISGAN Awards of Excellence in partnership with the Global Smart Energy Federation (GSEF) and the CEM's Empowering People Initiative. These awards will recognise excellence in EV integration in smart grids, and in smart grid workforce development for an inclusive energy transition. [Apply here](#)!

Highlights of CEM Events



CEM12: The second fully virtual ministerial meeting hosted by Chile took place from 31 May to 6 June. This was a critical moment to determine the medium- and long-term role of clean energy in supporting the economic recovery from the COVID-19 pandemic. It also built up towards the commitment to cut emissions ahead of COP26. CEM12 convened over 100,000 people from over 100 countries at 40+

events. Importantly, all members reaffirmed their commitment to the CEM and its next phase: **CEM 3.0**. Read the ministerial statement on enhanced ambition [here](#).



G7 and G20: The CEM's prominence during the UK's G7 Presidency and Italy's G20 Presidency showed the importance of our community and activities at the highest political level of world's largest economies. CEM workstreams - including on energy efficiency, industrial decarbonisation and gender equality - were highlighted and endorsed in the communique, and members agreed to strengthen the CEM as a core partner for realising political ambitions in the clean energy space. Read our G7 press release [here](#).



COP26: CEM launched three new workstreams, announced the date and location of CEM13, and held the first joint ministerial-level Steering Committee meeting of the CEM and its sister organisation, Mission Innovation.

Read more about our work and involvement throughout COP26 in the special COP26 newsletter [here](#).



COP26 Breakthrough Agenda: The CEM facilitated engagement for the UK Government's COP26 Unit to share details of its [Breakthrough Agenda](#) with CEM member governments. The COP Presidency attended CEM all-member meetings to share its plans for a streamlined global governance structure intended to spotlight leading initiatives to achieve shared clean energy goals. Many of the CEM's initiatives and campaigns were highlighted as leaders and referenced across the Glasgow Breakthroughs.

Energy Transition Council (ETC): In support of the UK's COP26 Presidency, CEM12's 'Passing the Tipping Point' event saw the [launch of the Energy Transition Council](#) by UK minister for climate change, Lord Callanan. The ETC brings together political, financial and technical experts to create the pathways necessary for supporting high coal use countries to transition to clean alternatives rapidly and inclusively.

What we delivered

Workstream graduations: This year, as we looked to renew the CEM's portfolio of work to reflect members' evolving priorities and the completion of workplans, several workstreams were graduated. These include the Sustainable Cities Initiative, the Energy Management initiative and campaign, the Advanced Cooling Challenge campaign and the Multilateral Solar and Wind Working Group. We thank the leading governments and coordinators for their dedication and achievements.

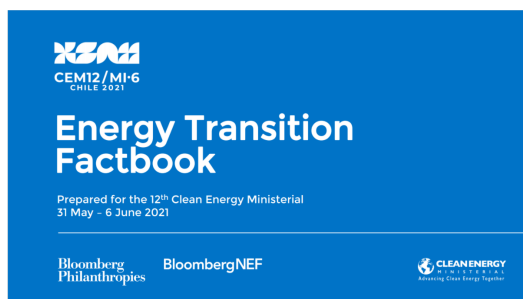
The CEM industry initiative's report, **Fostering industry transition through green public procurement**, gives an overview of the key components of green public procurement (GPP) policy and informs decision-makers on how GPP can accelerate emissions reduction from sectors like steel, cement and concrete. It showcases best practices and explores the potential impact of a regional or global GPP procurement programme on demand creation for low carbon products and materials.

Read it [here!](#)

Fostering industry transition through green public procurement:
A "How to" guide for the cement & steel sectors

All illustrations: Aalto Museum, Office Mies, Concrete Festival, David Orr
June 2021





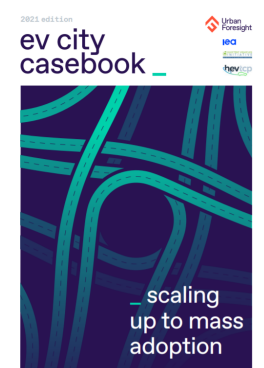
Bloomberg Philanthropies and Bloomberg New Energy Finance (BNEF) prepared the **Energy Transition Factbook** exclusively for CEM12. It explores in-depth the energy transitions for electricity, transportation, industry and global capital markets, with relevance to all CEM workstreams. Check it out [here!](#)

Participants in the **Nuclear Innovation: Clean Energy Future** initiative and the **Flexible Nuclear Campaign** shared the results of two years' work, alongside insights on flexible nuclear reactors and their role in renewable integration. Read their report [here!](#)



The **Hydrogen in North-Western Europe: A vision towards 2030** report was carried out by the International Energy Agency and the Clingendael International Energy Programme to explore the status of hydrogen in the region, and how the sector could evolve this decade. It brings together national policies and project plans to explore opportunities for future potential hydrogen as a clean energy vector. Read it [here!](#)

The International Smart Grid Action Network's Regulatory Sandbox activity enables countries develop regulations needed for deploying smart grids and other innovations to the energy system. In the **Regulatory Sandbox 2.0** report, policy messages were co-created by experts and practitioners from ministries, regulatory bodies and research institutions in 15 countries from three continents. It involved a unique knowledge sharing process that combined workshops and national-level stakeholder dialogue. Read the key messages [here.](#)



The **Electric Vehicles Initiative City Casebook 2021** is a collaboration between the CEM's Electric Vehicles Initiative and the Hybrid & Electric Vehicle Technology Collaboration Programme of the International Energy Agency. It showcases those cities building better, cleaner transport systems through electric vehicles and other innovative developments, such as digitisation, ride-sharing and zero-emission public transport. Read it [here!](#)

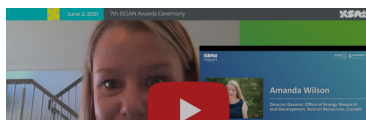
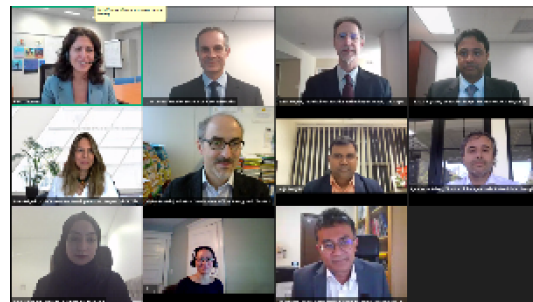
The **Global EV Outlook 2021** discusses recent international developments in electric mobility. The report examines EV production and charging infrastructure deployment, energy use, greenhouse gas emissions and battery storage. This edition also gives an update of the

electric heavy-duty vehicles entering consumer markets in the coming years. Read it [here](#).



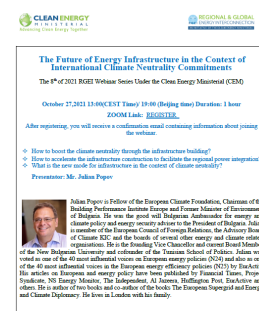
The **Clean Energy Investing: Global Comparison of Investment Returns** report was published from the CEM Investment and Finance initiative, carried out by the International Energy Agency and Imperial College Business School. It sheds light on the historical performance of clean energy companies around the world. Read the report [here](#).

The **Energy Management Leadership Awards** recognised leading institutions around the world in [Energy Management](#) best practices. This 6th edition highlighted how organisations ranging from multinational hotel chains to municipalities, and vaccine manufacturers to car companies, can successfully use energy management systems to transform the way they use energy while also reaping substantial business benefits.



The **2021 International Smart Grid Action Network Award of Excellence** recognised exemplars in the field of smart grids with a special focus on future-proofing the grid operation via advanced digitisation and the internet of things.

GEIDCO, coordinator for the CEM's **Regional and Global Energy Interconnection (RGEI)** initiative hosted a series of webinars discussing lessons for planning and establishing regional and global power system integrations.



The **Benchmarking Scenario Comparison: Key indicators for the clean energy transition** report was conducted as part of the Long-term Energy Scenarios (LTES) initiative by the International Renewable Energy



Agency and the European Commission's Joint Research Centre (JRC). It synthesises expert views on improving scenario comparison studies to gain useful insights for the energy transition. Read the report [here!](#)

As we look back on everything the CEM community has achieved in 2021, particularly as we continue to contend with the logistical challenges and economic uncertainties due to the COVID-19 pandemic, it is clear that the excitement and momentum around accelerating the energy transition remains as strong as ever. Looking to 2022 - the year of implementation - we will build on our successes and work with the entire clean energy community to ensure every element of the CEM's portfolio is performing at its highest standard.

Many happy returns,
The Clean Energy Ministerial Secretariat team

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