

## PITTSBURGH ACTION PACT

### **Pittsburgh to Net Zero: World Energy Leaders Welcome Pittsburgh Action Pact**

Clean Energy Ministerial (CEM) announces new package of measures to accelerate clean energy action. The “Pittsburgh Action Pact” is a package of actions and commitments that were announced at the Global Clean Energy Action Forum, hosted by the United States Department of Energy in Pittsburgh from 21-23 September 2022. In response to US Energy Secretary Jennifer Granholm's call for action, they will accelerate the world's clean energy transition and move us towards net zero emissions. They span different sectors, actors, and commitments, but they all help achieve the goal of a clean energy future cheaper, faster, and better for all. Through the Pittsburgh Action Pact, the Clean Energy Ministerial (CEM) community is moving the world from Pittsburgh to net zero.

*“Our community hit a massive home run for clean energy action at the Global Clean Energy Action Forum. In Pittsburgh, Clean Energy Ministerial members helped exceed President Biden’s \$90 billion Clean Energy Technology Demonstration Challenge. Our workstreams announced ambitious new actions that will have a major impact on clean energy transitions across all sectors of the economy and all parts of the world. Our community showed that international collaboration is essential to meeting the world’s clean energy and climate goals. This Pittsburgh Action Pact summarises a huge amount of positive action being undertaken by our massively committed clean energy community. We are advancing clean energy together.”*

**Dan Dorner, Head of Secretariat, Clean Energy Ministerial**

#### **Learn more:**

The Clean Energy Ministerial (CEM) brings together the world’s largest and leading countries, companies, and other experts to achieve a single mission - accelerate clean energy transitions. The actions taken by this powerful global community, which accounts for 90% of all clean energy investment globally, make a massive difference to the speed at which the world achieves its clean energy and climate goals.

If you want to learn more about any of the actions below, please click on the links in this press release. If you want further information about the CEM, go to [www.cleanenergyministerial.org](http://www.cleanenergyministerial.org). Sign up for our [newsletter](#) or follow us on [LinkedIn](#) and [Twitter](#) to hear about new announcements, events, and achievements, or email us at [secretariat@cemsecretariat.org](mailto:secretariat@cemsecretariat.org).

## PITTSBURGH ACTION PACT – Power

### **“Transforming Solar” workstream launched to strengthen solar manufacturing capacity and supply chains**

Solar power is essential to countries achieving their clean energy and climate goals, but its rapid deployment risks being held back by insufficient manufacturing capacity and vulnerable supply chains. Launched today, the new CEM “Transforming Solar” Initiative will see a global coalition working together to help ensure that solar industry supply chains are secure, resilient, and sustainable. The initial coalition launching this initiative includes the governments of Australia, Germany, India, the United Arab Emirates, and the United States – some of the largest and leading markets in the world for solar – in close partnership with the International Solar Alliance (ISA) and International Renewable Energy Agency (IRENA), and leaders from the solar industry, such as the European Solar Manufacturers Association. Follow its progress [here](#).

*“The ‘Transforming Solar: Supply Chain’ workstream will be a key contribution to building resilient solar supply chains. This is important because meeting international energy and climate goals requires the global deployment of solar PV to grow on an unprecedented scale. Major additional expansion in manufacturing capacity is needed not just to meet demand, but also to manage risks to supply chains. Australia has a key role to play in supporting solar supply chains, from mineral inputs to world leading expertise in innovation. Australia is in a prime position to be a key player in supporting the global energy transition. Australia is excited to co-lead this new workstream on solar manufacturing and supply chains within the Clean Energy Ministerial. We look forward to working with India, Germany, and the United States on this important program, and thank the International Solar Alliance and International Renewable Energy Agency for coordinating.”*

**Hon. Chris Bowen MP, Minister for Climate Change and Energy, Australia**

*“Diversification of supply chains in solar panels remains a great challenge in making solar the energy of choice. The recent fluctuations in the price of solar has been because of the choking of various supply chains. As we go to a future where the global demand for photovoltaics (PV) is likely to increase to 800 GW each year, i.e. five times of current capacity need to be shipped, we will need to diversify. We expect newer technologies, including solar plus batteries, becoming competitive. These are large scale changes and this is what is needed to move from fossil fuels. Future policies to attract manufacturing, therefore, need to attract efficiency in manufactured good as well. Currently manufacturing is concentrated in a handful of countries. We expect and believe that module manufacturing would be occurring everywhere. There is need for support in early years and as a global community we need to support countries in enabling an environment for manufacturing to occur.”*

**Dr Ajay Mathur, Director General, International Solar Alliance (ISA)**

## **New Report Maps out Key Lessons Learned for Decarbonising the Power Sector**

The [ground-breaking report](#) brings together insights from across the CEM's power sector programme and provides energy ministers and high-level energy sector decision makers key options for planning, building, and operating decarbonised power systems. The findings will help direct the next phase of the CEM's power sector work and guide the international power sector in ways to accelerate clean power deployment this decade.

## **Leading Economies Commit to Set Out Plans to Decarbonise Power Systems**

Australia, Brazil, Chile, the European Commission, Saudi Arabia, the United Kingdom, and the United States have announced their intent to develop and present Action Plans for Rapidly Decarbonizing our Power System over the next year. These plans will be released at next year's ministerial (CEM14) and contribute to peer learning under the [CEM 21st Century Power Partnership Initiative](#).

## **New International Coalition to Boost Social Equity and Economic Empowerment in the Nuclear Power Sector**

A new coalition – called Research Impacts on Social Equity and Economic Empowerment (RISE3) ([find out more](#)) – will accelerate the adoption of socially, economically, and environmentally just solutions with nuclear innovations as a key pillar. It will be led by Canada, Japan, the United Kingdom, and the United States with support from US national labs and an international suite of businesses. RISE3 will support and track community transformation, with a focus on how unabated coal site conversion options with nuclear and/or renewables yield economic and jobs impacts, and will also feature advances that can benefit communities, such as nuclear-renewables integration, flexible electricity grids, hydrogen production, thermal and electrical energy, and more. Its first contributions to this space involve the design of a series of case studies under "RISE3D" from Nuclear Innovation: Clean Energy Future ([NICE Future](#)) member countries. Also launched is a modelling case study, focusing on Kenya, which quantifies the economic, climate and societal benefits of nuclear energy, in tandem with renewables. The study will act as a springboard for future work in other developing markets to inform decision-making.

*“As a partner organization, the IAEA is supporting the Nuclear Innovation Clean Energy (NICE) Future initiative under the CEM as it offers a forum to discuss the benefits of nuclear power in the transitions towards clean energy systems. After contributing to the Flexible Nuclear Campaign, the IAEA is going to contribute to the campaign Research Impacts on Social Equity and Economic Empowerment (RISE3), by sharing the Agency's work on the macroeconomic impacts of nuclear investments, in terms of economic growth and job creation. The contribution will focus on the analyses of the impact of investments in innovative reactor technologies such as Small Modular Reactors, to demonstrate their contribution to a Just Transition for communities that are dependent on fossil fuel activities. The IAEA is ready to provide more case studies to this campaign.”*

**Rafael Mariano Grossi, Director General, International Atomic Energy Agency (IAEA)**

## International Smart Grid Action Network (ISGAN) Awards of Excellence

[ISGAN's Annual Awards of Excellence](#) recognize excellence in innovation, integration, and transformation of smart grid systems and policy. There were two awards categories this year: Excellence in EV integration in smart grids and Excellence in Smart Grid Workforce Development for an Inclusive Energy Transition.

- The winner of the **EV-Grid Integration** award is: [STEDIN](#), of the Netherlands.
- The winner of the **Smart Grid-Equal Workforce** award is: [India Smart Grid Federation](#).

## Nuclear-Hydrogen Digest Launched and Presented

The CEM Nuclear Innovation: Clean Energy Future (NICE Future) Initiative, with the support of the OECD Nuclear Energy Agency, published the "[Nuclear-Hydrogen Digest: The Role of Nuclear Energy in a Hydrogen Economy](#)". The Digest shows promising solutions being examined under NICE Future for hydrogen production from nuclear power. Hydrogen from nuclear will unlock the hydrogen economy and decarbonise hard-to-abate sectors such as heavy transport and industrial applications at low cost.

## CEM Power System Flexibility (PSF) and Flexible Nuclear Campaign (FNC) Celebrate Completion of their Work Programmes.

Following a highly successful four years, the CEM [Power System Flexibility](#) workstream has graduated following the successful completion of its work programme. It has issued its [final report](#), summarising its activities, findings, and achievements. A special thanks to China, Denmark, Germany, and Sweden for leading this work and assisting governments and industries accelerate system transformation by increasing flexibility across all elements of the power system, helping to cut costs and boost reliability. This work will carry on in the CEM's International Smart Grid Action Network (ISGAN), a joint CEM initiative and IEA Technology Collaboration Programme.

*"Germany has been honoured to co-lead the Power System Flexibility campaign together with Denmark, China and Sweden since 2018. PSF has been fostering the exchange on regulatory framework conditions for a secure and cost-efficient grid and system integration of ever higher shares of variable renewable energies, especially wind and solar energy. Well-managed flexible power systems are key to building power systems primarily based on renewable generation. Our domestic experience in Germany illustrates that renewable shares reaching up to 100% at times and ensuring a very high level of supply security can go hand in hand. We look forward to the continuation of international cooperation on this vital issue within CEM under the International Smart Grid Action Network (ISGAN)."*

**Patrick Graichen, State Secretary, Ministry for Economic Affairs and Climate Action, Germany**

*“Transformative change can be advanced when working together and sharing knowledge. The PSF campaign has been a highly successful platform through which we have engaged with other actors as well as peers from across the world; sharing experiences and learning from each other. Our aim has been to identify best practice principles and examples in energy market design that can be applied in a wide range of circumstances by governments and regulators. Going forward, we will continue to emphasize the importance of collaboration and shared knowledge and we will definitely continue the work we have started on demand side flexibility, enhanced grid technologies and market design principles for well-functioning markets.”*

**Therése Hindman, Deputy Director General, Swedish Energy Markets Inspectorate**

The CEM [Flexible Nuclear Campaign](#) made phenomenal strides, contributing to ground-breaking analysis by the world’s leading experts in integrated systems. It highlighted solutions, via several publications, for how nuclear energy can provide clean, integrated, flexible, and secure power alongside renewable energy. Leveraging the technical foundations that FNC established, the work will transition into the new [RISE3 Campaign](#).

## PITTSBURGH ACTION PACT – Industry

### **Five of the Ten Largest Economies are in the CEM’s Industrial Deep Decarbonisation Initiative**

The governments of Saudi Arabia, United Arab Emirates, and the United States, join Canada, Germany, India, and the United Kingdom to work together on the CEM [Industrial Deep Decarbonisation Initiative \(IDDI\)](#). This growing coalition shows the power that governments have in sending the signal to markets of the growing need for green, clean industrial goods. The IDDI is a collaborative global platform that delivers work on international harmonisation of data, standards and green procurement regimes for industrial products. Follow its work here.

*“Innovation and deployment of clean energy technologies this decade will be critical to develop and drive down costs of technologies that will enable deep emissions cuts post-2030. The United States is working with the private sector to increase the demand for these transformative technologies through the First Movers Coalition. This initiative has nearly 60 of the world’s leading companies that have all made purchasing pledges in the hardest-to-abate sectors, including heavy industry. I am delighted that the United States is now joining the Clean Energy Ministerial’s Industrial Deep Decarbonisation Initiative. Together we can bolster cooperation among international efforts to generate early market demand for innovative technologies and ensure those technologies are ready for market.”*

**John Kerry, Special Presidential Envoy for Climate, United States**

*“To fight climate change we must decarbonize the most energy intensive industrial sectors and create demand for low-carbon materials. To support these efforts, we are joining the Industrial Deep Decarbonization Initiative and its important work on data, standards, and procurement alongside other governments and the private sector.”*

**Jennifer M. Granholm, Secretary of Energy, United States**

### **Governments Commit to Buy Clean Steel, Providing Massive Incentive for Companies to Invest in Production Capacity**

Leading countries, including Canada, Germany, India, and the United Kingdom announced a [Green Public Procurement Pledge](#) that sets benchmarks for low-emission materials in public construction projects – and a commitment to identify flagship projects for using near-zero emission materials. The Pledge also includes targets announced at last year’s COP26 in Glasgow to require the monitoring and disclosure of embodied carbon emissions – meaning those from the production as well as the use – of steel, cement and concrete in publicly-funded construction projects by 2025, and aim for

net-zero emissions by 2050. Countries will over the next year undertake internal consultations to identify their levels of pledge commitment. Government buying power means that these commitments act as an important signal to investors that can kick-start the decarbonisation of heavy industry.

*“Steel, cement and concrete are the building blocks of our modern world. Demand for these materials is high and rising but they are also responsible for the largest share of industrial greenhouse gas emissions. Decarbonizing these industries is challenging but it is urgent. That is why coordinated action at the global level is more than ever needed today.”*

**Tareq Emtairah, Director, Decarbonization and Sustainable Energy Division, UNIDO**

*“Nearly one in every six tons of carbon dioxide emissions globally comes from manufacturing steel, cement, and concrete, and governments are the largest purchasers of these commodities. By joining this initiative, governments will lead by example, deploying effective green public procurement policies to help shape the clean material economy of tomorrow and achieve global net-zero goals. It is a transformative effort to strengthen our industries, create jobs, and build resilient economies in the face of the accelerating climate crisis”*

**Rebecca Dell, Senior Director, Industry Program, ClimateWorks Foundation ([see full statement here](#))**

## **Countries and Companies Agree on Collaboration to Accelerate Carbon Capture for the Global Cement Sector**

The CEM CCUS Initiative member countries and the Global Cement and Concrete Association announced a [joint collaboration declaration](#), aiming at helping the cement industry implement 10 large-scale CCUS installations by 2030, on the road to strongly accelerating carbon capture as a key lever for cement sector decarbonisation. The two groups will work together to implement policy, identify projects and collaborate with other partners to establish the needed CO<sub>2</sub> transport and storage infrastructure. Carbon capture is a feasible large-scale decarbonisation option for the cement sector and the first large projects have been announced and are being constructed.

## **Recognise Leadership in Energy Efficiency**

The [2022 Energy Management Leadership Awards](#) were announced at the GCEAF. These awards recognise organisations that have implemented energy management systems to achieve energy, economic, and sustainability gains. Three organisations, **Grupo Libertad** (Argentina), **PT. ISM Bogasari Flour Mills Tbk** (Indonesia) and **Tyndall National Institute** (Ireland) received the prestigious Award of Excellence in Energy Management, while 27 others from diverse geographic and economic backgrounds earned the distinguished Energy Management Insight Award.

## PITTSBURGH ACTION PACT – Transport and Fuels

### **Declaration by Seven Governments to Decarbonise their Vehicle Fleets**

Deploying government buying power can make a big difference in speeding the transition to clean road transport. Seven governments met at the Global Clean Energy Action Forum to announce the common [Government Fleet Declaration](#), by committing to transform their domestic fleets of government-owned vehicles, including medium- and heavy-duty ones, to zero-emission alternatives by 2035. The Declaration currently has Australia, Canada, Germany, Israel, New Zealand, Norway, and United States as initial signatories, but is open to other countries willing to commit.

Beyond government fleets, 16 countries and 50+ new companies also committed to work together to enable 100% zero-emission truck and bus sales by 2040, with an interim goal of 30% by 2030. Read the full Memorandum of Understanding [here](#) and learn more about the CEM Global Drive to Zero Campaign [here](#).

### **Clean Energy Marine Hubs Platform Launched**

[Clean Energy Marine Hubs \(CEMH\)](#) will accelerate the production, trade of low-carbon fuels for shipping around the world. It will be a public-private platform for action among governments, shipping and ports, along with the finance sector to unlock untapped opportunities in marine infrastructure decarbonisation. The platform will work towards enabling a smooth transition to transporting of low-carbon fuels worldwide via maritime to enable the global clean energy transformation and for use of these fuels by the shipping sector.

The Platform brings together some of the largest shipping companies and ports in the world to collaborate with the key clean energy exporting and importing countries. It will work closely with the CEM's initiatives on hydrogen, industry, biofuels and ports, demonstrating the best of international collaboration.

*“This is the first time that the entire maritime value chain has come together under the CEM umbrella to unlock the systemic challenges that we all face. We would also like to recognise the leadership of the Government of Canada, the Government of Panama and the Government of the United Arab Emirates for being the early partners as we develop the initiative.”*

**Guy Platten, Secretary General of the International Chamber of Shipping**

## **Governments and Industry Commit to Pursuing a Sustainable Bioeconomy**

The CEM [Biofuture Platform](#), and its [Biofuture Campaign](#) aimed at industry, are hard at work in an ambitious attempt to bring more widespread convergence in the difficult topic of quantifying sustainable biomass potential and ensuring good sustainability governance. While the persisting differences in views are a known barrier to both investor and policy-maker confidence, more recent findings and data using an evidence-based approach are targeted at creating a greater mutual understanding on a number of principles among governments, companies and civil society.

The government and industry members of the Biofuture Platform Initiative and Campaign released a [high-level statement](#) at GCEAF affirming that sustainable bio-based fuels, chemicals, and materials are essential to enabling an inclusive clean energy transition and a net zero, circular economy and that their production is key to achieving greenhouse gas emissions reductions, with important co-benefits such as increased energy security, job creation and socio-economic development. The statement recognises that an evidence-based approach to quantification of sustainable biomass availability and sustainability governance is essential to optimising biomass feedstock production and delivering the emissions reduction benefits of using bio-based products, while conserving biodiversity, protecting environment, and increasing social-economic benefits.

*“The problem is not in the lack of evidence, but in the lack of frank, level dialogue and coordination among experts and stakeholders. This is why I am extremely pleased that the Biofuture Platform Member Countries, including Brazil, are putting out today a High-Level Statement committing to an evidence-based approach to quantification of sustainable biomass availability and sustainability governance.”*

**Jose Guilherme Resende, Secretary for Energy Planning and Development, Brazil**

## **Hydrogen Lights Up the Global Energy Conversation**

The International Energy Agency (IEA) published the [Global Hydrogen Review](#), a flagship publication of the CEM Hydrogen Initiative. It identified that the pipeline of projects for low-emission hydrogen production keeps increasing with the possibility of about 24 million tonnes production by 2030 with the electrolyser manufacturing capacity growing over six-fold. The CEM [Hydrogen Initiative](#) will continue to build international collaboration on hydrogen trade and standards over the coming year.

## **Awards for Excellence in Clean Hydrogen Solutions**

Zero Emission Haulage Solution (ZEHS) wins the [2022 Award for Excellence](#) for their work on integrating electrolysis with renewable energy. The South African and Anglo-American Mogalakwena PGM mine is a fully integrated, end-to-end green hydrogen system demonstration with a 340kW solar PB plan, 3.5 MW electrolyser and refuelling station, and 2 MW hybrid fuel cell-battery truck. I think this is a tangible example of the “year of implementation” in action.

## PITTSBURGH ACTION PACT – Investment

### **\$94 Billion Committed for Clean Energy Demonstration Projects**

Several member countries of the Clean Energy Ministerial came together with others to rise to President Biden’s challenge to raise \$90 billion in public funding for commercial-scale clean energy demonstration projects by 2026. The President invited interested countries to come prepared to announce specific investment levels at the Global Clean Energy Action Forum, hosted by the US Department of Energy. Sixteen countries delivered [\\$94 billion to GCEAF](#) exceeding and achieving this goal four years early.

The International Energy Agency (IEA) assessed this level of funding is needed to complete a portfolio of large-scale demonstration projects this decade to bring to market the technologies required to achieve net zero emissions by 2050. The United States is devoting \$21.9 billion to clean energy demonstrations. Governments contributing to the Challenge also included: Australia, Canada, European Commission, Finland, France, Germany, Japan, the Netherlands, Norway, Poland, the Republic of Korea, Singapore, Sweden, United Arab Emirates, and the United Kingdom.

### **CEM Members Continue to Lead Clean Energy Transitions**

[BloombergNEF Energy Transition Factbook](#) is a bespoke report developed with the support of Bloomberg Philanthropies, highlighting clean energy investments across the CEM membership. This year, the report offers an insight into the enormous trend among investors surging capital into clean technologies – over \$920 billion into the energy transition and climate tech in 2021, with over three-quarters of this in CEM countries alone. The report aims to help policymakers, specifically from CEM countries, identify opportunities for further investment that improve energy resilience, access, affordability and sustainability for people and planet. Read the full report [here](#).

Michael R. Bloomberg, UN Secretary-General's Special Envoy on Climate Ambition and Solutions and Founder of Bloomberg L.P. and Bloomberg Philanthropies, reiterated the importance of international collaboration in fora such as the CEM in a video message to GCEAF participants, noting that:

*"Speeding up the switch to clean energy is more important - and more urgent - than ever. And the more we all work together the faster we can make progress. Doing that will take all of us: businesses in every industry and leaders at every level of government."*

## **New Dashboard Launched to Track Financing Costs for Energy Projects in Emerging and Developing Economies**

This dashboard is part of the [Cost of Capital Observatory](#), an initiative from the IEA, the World Economic Forum, ETH Zurich and Imperial College London. The dashboard is a free resource that provides data on the cost of capital focused on clean energy projects in emerging and developing economies. It will also provide estimates of the main underlying risks perceived by investors and financiers in each country as well as case studies. This will help companies and countries to ensure an increasing flow of investment into energy, and in particular clean energy, needed to support energy transitions.

“A high cost of capital is a roadblock for investors, and the data provided by our Observatory is essential to understand how this roadblock can be dismantled. This will allow more capital to flow to clean energy, where it is urgently needed to tackle today’s energy crisis and reach sustainable development goals.”

**Dr Fatih Birol, Executive Director of the International Energy Agency (IEA)**

## PITTSBURGH ACTION PACT – People

**Energy leaders from around the world put people and communities first in Pittsburgh.** A package of measures was announced at the Global Clean Energy Action Forum aimed to create and sustain clean energy jobs, provide training for skills and development, and support the inclusive, equal-opportunities transition that is required to reach our clean energy goals. Global energy leaders announced measures to put people and communities at the heart of clean energy transitions.

The Global Clean Energy Action Forum highlighted the importance of bringing communities together and giving a voice to underrepresented groups if we are to meet our commitments to delivering net zero. In Pittsburgh, governments and companies supported the following measures:

### **Developing the Clean Energy Workforce of the Future**

The CEM Empowering People Initiative launched an important [report](#) that features a series of international case studies on skills in clean energy transitions. It also welcomed members and partners in an impressive international coalition that includes the governments of the United States, the European Commission, Canada, Spain, Chile, the International Labor Organization, World Bank, IEA, and IRENA.

### **Equality in Energy Transition Awards of Excellence**

Women continue to empower the energy transition! At the GCEAF in Pittsburgh, the international clean energy community recognised and celebrated those making a difference to the role of women in clean energy through three international awards, organised by the CEM Equality in Energy Transitions Initiative. Associate Deputy Minister Mollie Johnson from Natural Resources Canada and Awards partner Women in Renewable Energy (WiRE) announced the following winners:

- **Woman of Distinction Award: Sam Craft**, NRG Solar and AWISE (Australia) was given the women of distinction award for going beyond business as usual and demonstrating leadership by connecting with people, achieving career goals, and giving back to the community. Sam Craft has made a measurable difference in the energy sector, is a role model for other women both new and experienced, and has shared her strengths through mentorship and empowering other women.
- **Emerging Leader in Renewable Energy: Pooja Shah**, DNV Energy (United States) was recognised as an emerging individual who has shown to be an exceptional role model, has demonstrated outstanding promise to advance the role of women, and has made a significant impact through leadership, innovation and initiative in the renewable energy sector.

- **Organisational Award:** The **Chilean Ministry of Energy** (Chile) was celebrated as an organisation leading by example and setting a high standard for the recruitment, development and retention of female talent in the energy sector.

## **Harnessing the Power of the Public and Private Sector**

The CEM's [Equalby30](#) workstream – which highlights the need for equal pay, leadership and opportunities for women in the energy sector – continues to gain momentum. Thanks to new endorsements received in Pittsburgh, the campaign has now reached over **185 signatories**, creating a powerful, global coalition. Canada called on all countries and organisations to join the urgent effort to close the gender gap and advance equity, diversity and inclusion in the energy sector as a critical step to achieving a clean energy future. **Chile** has answered that call and announced that they will join 13 other governments that have endorsed the campaign.

## **Recognising Future Leaders in Clean Energy Transitions**

The first *Creating the Energy Future Forum* convened in Pittsburgh for a dedicated programme in which the world's aspiring clean energy youth leaders helped shape international energy policy.

## PITTSBURGH ACTION PACT – International Collaboration

### **The strength of the global clean energy movement is bigger than the sum of its parts – Pittsburgh heralds a new era for clean energy collaboration**

Effective international collaboration is the hallmark of the Clean Energy Ministerial. It can be the difference between achieving the world’s clean energy and climate goals in the time available, or missing them by decades. The actions and commitments revealed in Pittsburgh unleash the full potential of collaboration and accelerate the pace of clean energy transitions.

*“We are in the midst of the first truly global energy crisis, with devastating knock-on consequences across the world economy, especially in developing countries. Only by speeding up the transition to clean sustainable energy can we achieve lasting energy security. Through international collaboration, we can make the transition quicker, cheaper and easier for everyone - on the back of faster innovation, greater economies of scale, bigger incentives to invest, level playing fields and benefits that are shared across all parts of society. Without this collaboration, the transition to net zero emissions will be much more challenging and could be delayed by decades.”*

**Fatih Birol, Executive Director, International Energy Agency (IEA)**

As the first minister-level meeting of the CEM since the launch of CEM 3.0 – its latest, more ambitious phase – the Global Clean Energy Action Forum (GCEAF) saw a variety of important announcements aimed at strengthening the fabric of international clean energy collaboration. These included:

### **CEM Action Fund**

Ministers agreed to activate a [new CEM Action Fund](#) to help turn the CEM community's ambitions into a reality. The Action Fund will bring together funding from governments, philanthropies and the private sector to support ambitious, impactful projects across the clean energy spectrum.

*“The CEM provides a powerful platform for accelerating global clean energy collaboration to deliver cleaner, healthier, faster access to energy for people everywhere. By bringing together a wide range of partners, including governments, corporates, civil society, and philanthropy, CEM’s Action Fund will galvanize momentum to achieve even more. ClimateWorks Foundation is delighted to partner with CEM in this catalytic effort to support communities around the world in transforming ambitious climate goals into durable change.”*

**Helen Mountford, President and CEO, ClimateWorks Foundation**

## CEM and the G20

[India \(2023\) and Brazil \(2024\) will host](#) the Clean Energy Ministerial in tandem with their G20 presidencies. This will strengthen the links between the political leadership of the G20 and the practical implementation by the CEM community. [Watch the CEM15 Brazil launch video here.](#)

*“Today we seem to live a dilemma, pressed by the needs of energy transition and energy security. Brazil is a demonstration that the way out of this dilemma is to act on all fronts, developing many different clean energy sources, technologies and solutions simultaneously. We are thrilled to be hosting these important clean energy events and delighted to bring their global communities to continue the acceleration of clean energy around the world”*

**Adolfo Sachsida, Minister of Mines and Energy, Brazil**

*“In 2024, Brazil will host the G20 Energy Ministerial Meeting in Foz do Iguaçu, together with the CEM and MI Ministerial meeting. By tying those three key global energy platforms together, we hope to increase the political attention to the collaboration initiatives under those platforms and enhance their impact.”*

**Carlos França, Minister of Foreign Affairs, Brazil**

## CEM and COP

Ministers of the Clean Energy Ministerial (CEM) and Mission Innovation (MI) agreed to work with the COP26 Presidency and other signatories to take forward the [Breakthrough Agenda](#), agreed by world leaders at COP26 last November, as a joint project. This will bolster the CEM and MI’s positive engagement with the COP cycle, enhancing their stance as global centres of gravity for international collaboration on clean energy transitions. The first Breakthrough Agenda Report from the IEA, IRENA and UN High Level Action Champions was [published](#), giving clarity on the global state of affairs for international collaboration and recommending the steps to improve it in pursuit of meeting our mutual climate and clean energy goals.

## CEM and Mission Innovation

GCEAF saw the CEM and MI strengthen cooperation even further, joining together for a joint agenda and high-level plenary. This shows the strength of the CEM-MI partnership and the value in ensuring clean energy conversations link together the value both organisations bring across research, development, demonstration, and deployment.

## CEM and Key Partners

As a platform for international clean energy collaboration, the CEM continually seeks to strengthen and renew its strategic partnerships. At the Global Clean Energy Action Forum, it is pleased to announce new Partnership Agreements have been signed with:

- **World Energy Council:** Further strengthening the CEM's strategic relationship with the World Energy Council on issues related to humanising clean energy transitions, an important area of work for both platforms. See press release from the World Energy Council [here](#).
- **Latin-American Energy Organization (OLADE):** We are excited to announce that the Latin American Energy Organization (OLADE) agreed to strengthen its engagement with the CEM. OLADE has 27 member countries in Latin America and the Caribbean and promotes the integration, conservation, rational use, commercialisation and defence of the region's energy resources.

## Leadership of the CEM

Ministers confirmed the [CEM Steering Committee](#) for the coming period, welcoming Brazil and Germany as new members alongside Canada, Chile, China, Denmark, European Commission, India (co-Chair), Mexico, Saudi Arabia, United Kingdom, and the United States (co-Chair).