

MI-3 MEDIA KIT

Prepared by the **Mission Innovation Secretariat**
& **MI-3 co-hosts**

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Background

Mission Innovation (MI) is a global initiative of 22 countries and the European Commission (on behalf of the EU) partnering to reinvigorate and accelerate clean energy innovation with the objective of making clean energy more widely affordable. MI recognises that accelerating widespread clean energy innovation is an indispensable part of an effective, long-term global response to the climate challenge, necessary to provide affordable and reliable energy for everyone and to promote economic growth, and critical for energy security. Member countries, representing 58% of the world's population and over 80% of global clean energy research budgets, have committed to seeking to double public investments in clean energy research and innovation over five years (to 2021). They are also encouraging greater levels of private sector investment and partnership in transformative clean energy technologies.

Launch

MI was announced by 20 world leaders, including President Obama, President Hollande, Prime Minister Trudeau and Prime Minister Modi, at the 21st Conference of Parties to the United Nations Framework Convention on Climate Change (COP21) on 30 November 2015. It was created to accelerate widespread clean energy innovation and to support the Paris Agreement's goal to limit the rise in global temperatures to well below 2°C.

In parallel, Bill Gates launched an initiative called Breakthrough Energy Coalition, which brings together a group of private investors and global corporations in the energy field committed to accelerating the transfer of cutting-edge, government-funded research and clean energy innovations from the laboratory to market. The Breakthrough Energy Coalition created Breakthrough Energy Ventures, an investor-led fund, to provide patient, risk-tolerant capital to build the new, cutting-edge companies that will deliver on that promise.

Mission Innovation's Action Plan

At the 2nd MI Ministerial, members adopted an Action Plan aimed at demonstrating progress through individual country programmes and collaborative efforts towards achieving the MI goals.

By the end of 2021 MI will have helped deliver:

1. A substantial boost in public-sector investment in clean energy R&D at the national level of MI members;
2. Increased private sector engagement and investment in energy innovation;
3. Many new or strengthened voluntary cross-border networks and partnerships on energy innovation, greater engagement from innovators; and
4. Greater awareness amongst MI members and the wider clean energy community of the transformational potential of energy innovation.

Baseline and doubling plans

One of the goals of MI is to substantially boost public-sector investment in clean energy research and development (R&D) at the national level of MI members. Each member country—according to its own priorities, policies, processes, and laws—independently determines the best use of its R&D funding and defines its own R&D priorities and path to reach the doubling goal. Altogether, more than USD \$35 billion in additional clean energy R&D is committed by MI members over the five years.

Innovation Challenges

Beyond the quantitative goal to double clean energy research and innovation investments, MI has launched a number of initiatives to boost the impact of these investments.

MI members have identified seven global calls to actions, or “Innovation Challenges,” where increased international attention is required. Its Innovation Challenges cover the entire spectrum of RD&D; from early stage research needs assessments to technology demonstration projects [8].

The seven Innovation Challenges include:

1. **Smart Grid Innovation Challenge** – to enable future grids that are powered by affordable, reliable, decentralised renewable electricity systems.
2. **Off-Grid Access to Electricity Innovation Challenge** – to develop systems that enable off-grid households and communities to access affordable and reliable renewable electricity.
3. **Carbon Capture Innovation Challenge** – to enable near-zero CO₂ emissions from power plants and carbon intensive industries.
4. **Sustainable Biofuels Innovation Challenge** – to develop ways to produce at-scale widely affordable, advanced biofuels for transportation and industrial applications.

5. **Converting Sunlight into Storable Fuel Innovation Challenge** – to discover affordable ways to convert sunlight into storable solar fuels.
6. **Clean Energy Materials Innovation Challenge** – to accelerate the exploration, discovery, and use of new high-performance, low-cost clean energy materials, as well as to automate the processes needed to integrate these materials into new technologies.”
7. **Affordable Heating and Cooling of Buildings Innovation Challenge** – to make low-carbon heating and cooling affordable to everyone.

Engagement in an Innovation Challenge is voluntary, and is built around a coalition of mutually interested MI members.

Partnerships & private sector engagement

MI aims to create new, or strengthened, voluntary cross-border networks and partnerships on energy innovation.

Focusing on early-stage technology development coming out of MI members, the Breakthrough Energy Coalition committed to make risk-tolerant investments in next generation technologies. Additionally at the One Planet Summit held in Paris on 12th December 2017, Bill Gates [9], on behalf of the Breakthrough Energy Coalition, announced new partnerships with five MI member governments (Canada, European Commission, France, Mexico, United Kingdom). Through these partnerships, the Coalition will work with each country to test and refine a new approach to public-private collaboration in order to support low-carbon energy investing.

A new collaboration between MI and the World Economic Forum (WEF) was announced at the 2nd MI Ministerial in Beijing, China.

The collaboration is structured around three main pillars:

Engagement of World Economic Forum members and partners with MI, including through specific, commonly identified Innovation Challenges. Initially this work will focus on three of the seven Challenges: Carbon Capture, Clean Energy Materials, and Affordable Heating and Cooling of Buildings—areas that are most promising for greater public-private cooperation to help develop and unleash new technologies into the market. Additional areas of cooperation may be identified over time.

Collaboration on joint high-level platforms for strategic public-private dialogue through a series of events to advance clean energy innovation and investment. For 2017, this included the World Economic Forum’s Annual Meeting of the New

Champions, 27–29 June in Dalian, China, and the Strategic Dialogues on Energy Futures, 12–13 September in Mexico City.

Public–private collaboration on knowledge, research, and technology development on clean energy innovation and information sharing. In particular, the collaboration will explore new and existing models for innovation where public and private sector organizations can boost their impact.

In Davos, Switzerland, at the 2018 annual World Economic Forum, Mission Innovation reaffirmed the strong partnership established with the WEF at the 2nd MI Ministerial in Beijing. Mission Innovation and WEF remain committed to pursue concrete opportunities for real change to present at the 3rd MI Ministerial this year in Malmö.

To achieve its objectives, Mission Innovation also works closely with a number of international bodies such as the International Energy Agency (IEA) and the International Renewable Energy Agency (IRENA)

Participating countries

The following are country members:

Australia	Germany	Norway
Brazil	India	Saudi Arabia
Canada	Indonesia	Sweden
Chile	Italy	United Arab Emirates
China	Japan	United Kingdom
Denmark	Republic of Korea	United States
European Union	Mexico	
Finland	Netherlands	
France		

Biographies



Christiana Figueres is a world authority on global climate change and was the Executive Secretary of the UNFCCC from 2010-2016.

Ms. Figueres is currently Vice-Chair of the Global Covenant of Mayors for Climate and Energy, Climate Works Board Member, World Bank Climate Leader, Senior Fellow for Conservation International, ACCIONA Board Member, The B Team Leader, WRI Board Member, Economic Council member for the Rockefeller Foundation Economic Council on Planetary Health, Leadership Council Member for The Global Alliance for Clean Cookstoves, and Mission2020 Convenor.

During her tenure at the UNFCCC Ms. Figueres brought together national and sub-national governments, corporations and activists, financial institutions and communities of faith, think tanks and technology providers, NGOs and parliamentarians, to jointly deliver the historic Paris Agreement on climate change, in which 195 sovereign nations agreed on a collaborative path forward to limit future global warming to below 2C. The agreement entered into force in less than a year, breaking the record of the UN. For this achievement Ms. Figueres has been credited with forging a new brand of collaborative diplomacy.

In addition to her remarkable diplomatic achievements over the past 20 years, she served as Director of Renewable Energy in the Americas (REIA) and in 1995 founded the non-profit Center for Sustainable Development of the Americas (CSDA), which she directed for eight years.



Praveer Sinha is the CEO & Managing Director of Tata Power Delhi Distribution Limited (TPDDL). TPDDL is a Public Private Partnership (Joint Venture) of Tata Power and Government of National Capital Territory of Delhi. The company has a registered customer base of 1.4 million and it reaches out to over 7 million consumers in North and North-West part of Delhi through its services.

Under his leadership, TPDDL has become the first utility in India to have a fully integrated Smart Grid Technology Roadmap which uses state of the art technologies such as SCADA, GIS, ICT SAP, DMS, DA, OMS etc.

This has enabled TPDDL to implement Automated Demand Response, Demand Side Management and Roof Top Solar to meet the City's rising energy demand. He is also extremely passionate towards using CSR programs for bringing about inclusive growth within the society. Mr. Sinha has helped TPDDL in creating an exhaustive sustainability model which reaches out to all its consumers including those in the bottom of the pyramid.

Mr. Praveer Sinha contributes regularly to bring about Power distribution sector reforms in the Country using effectively Public private platforms.



Cheryl Martin is currently **Head of the Centre for Global Industries at the World Economic Forum.**

She joined the Forum in March 2016 from the consulting firm, Harwich Partners. Dr. Martin launched Harwich Partners to work with public and private sector entities to identify critical business, technology, finance, regulatory and policy drivers that would accelerate adoption of new technologies into key

markets.

Previously Dr. Martin served as the Acting Director of the US Department of Energy's Advanced Research Projects Agency-Energy (ARPA-E). In addition, she was the Deputy Director for Commercialization at the agency where she developed the Technology-to-Market (T2M) program, which helps breakthrough energy technologies succeed in the marketplace. Prior to joining ARPA-E, Dr. Martin was an Executive in Residence with the venture capital firm Kleiner Perkins Caufield and Byers, and interim CEO of Renmatix, a start-up company focused on renewable materials. She also spent 20 years with Rohm and Haas Company in roles ranging from tec

hnology to business and where, most recently, she had been the General Manager for the Paint and Coatings Materials business in Europe, Middle East and Africa. Dr. Martin earned a B.A. in chemistry from the College of the Holy Cross and went on to earn a Ph.D. in organic chemistry from the Massachusetts Institute of Technology (MIT). Dr Martin serves on the board of Enbala, an early

stage company focused on making the electric grid more sustainable by harnessing the power of distributed energy. In addition, she is active in the American Chemical Society (ACS) and serves on the Board of Directors for Philabundance, the greater Philadelphia region's largest hunger relief organization.



Stephen Bull, SVP – Statoil, is the Senior Vice President for Wind & Low Carbon Development in Statoil's New Energy Solutions business area. His responsibilities include project development for Statoil's global wind portfolio; business and project development for Statoil's low carbon business line including carbon capture and storage and hydrogen.

He also has special responsibility for Statoil's floating offshore wind business, Hywind, and Statoil's energy storage concept, Batwind.

Bull started his career in JP Morgan, London as an equities analyst before joining Norsk Hydro and Statoil. With 20 years in the international energy industry, Bull has a broad background from oil trading, market analysis, risk management, business development and US shale oil and gas operations in Texas, Pennsylvania and North Dakota. Bull is the Vice Chair of Renewable UK – the largest renewable industry association in the UK and regularly tweets about energy on @sbul_stephen. He studied economics and politics at the University of Portsmouth and London School of Economics, UK.



Christoph Frei is the World Energy Council's fifth Secretary General. Since joining the World Energy Council in 2009, Dr Frei's priorities have been to mobilise international energy leaders and decision-makers to work together towards building a sustainable future, underpinned by robust policymaking.

“Energy is undergoing a deep transition,” he says. “The World Energy Council is uniquely placed in being able to bring high-level decision-makers together for dialogue on critical challenges, opportunities and relevant best practices. We act as a catalyst for change to ensure energy is a foundation for prosperity.”

Dr Frei’s main focus has been to provide world decision-makers with the necessary evidence base and the high-level dialogue platform for energy policies to address the Energy Trilemma – the trade-offs between energy security, energy affordability, and environmental impact mitigation.



Bertrand Piccard, doctor, psychiatrist and aviator
First person to fly non-stop round the world in a balloon Initiator and pilot of Solar Impulse President of the Winds of Hope humanitarian foundation and United Nations Goodwill Ambassador, Pioneer of hang gliding in Europe.

Bertrand is the initiator and visionary behind Solar Impulse, the very first airplane capable of flying perpetually without fuel. Taking turns at the controls with André Borschberg for the first flight around the world on solar power, his ambition is to leverage pioneering spirit for a useful contribution to the cause of renewable energies. This is why he spent the last 15 years bringing together the major partners providing technology and funds for this adventure. Together with his wife Michèle, he conceived the Solar Impulse project as a now widely recognized platform to raise public awareness and encourage political actions in favour of clean technologies and energy efficiency.

Press releases

[MI-1 Press release](#) 1-2, June 2016 San Francisco US

[MI-2 Press release](#) 6-8 June 2017, Beijing

[World Economic Forum](#) , 8 June 2017

[Mission Innovation Marks Two Years in Global Collaboration at COP23](#), November 17, 2017

[Breakthrough Energy Coalition](#), 12 December 2017

[Mission Innovation Launches New Initiatives at the One Planet Summit](#), 12 December 2017

Main Media mentions

- **Bill Gates's Blog** [4 signs of progress on climate change](#), 12 December 2017
- **Climate Action COP23** [Mission Innovation: Accelerating the transition to a clean energy economy](#) November 2017
- **Nature** [Use machine learning to find energy material](#) 6 December 2017

Press Contacts

- **Swedish Ministry of the Environment and Energy**
Lina Shaughnessy (lina.shaughnessy@regeringskansliet.se)
+46 84052038
- **Mission Innovation Secretariat**
Rossella Guzzo Foliaro (rossella.guzzo-foliaro@ec.europa.eu)
+32 2 29 54860

Registration

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