

ACCELERATING THE CLEAN ENERGY REVOLUTION

May 2021

Mission Innovation: 25 Members with a common ambition

Mission Innovation (MI) is a global initiative of 24 countries and the European Commission working to reinvigorate and accelerate global clean energy innovation with the objective to **make clean energy widely available and affordable**.

MI was announced at COP21 on November 30, 2015, as world leaders came together in Paris to commit to ambitious efforts to combat climate change.

The European Commission, acting on behalf of the European Union, became a member of MI in 2016, adding EUR 0.4 billion to the aggregate annual spending on MI R&D focus areas on clean energy innovation.

Today, MI members represent over 90% of global government investment in clean energy research and innovation. MI works closely with six partners: IRENA, Breakthrough Energy, World Bank Group, Global Covenant of Mayors for Climate and Energy, IEA, and the World Economic Forum (use logos)

The European Commission is currently chairing MI's Steering Committee.

Accelerating widespread clean energy innovation is an indispensable part of an effective, long-term global response to our shared climate challenge, and necessary to provide affordable, secure and reliable energy for everyone. The transition to clean energy has important benefits besides slowing down global warming: it will improve air quality, with positive effects on public health, and will lower import dependency.

MI has **4 objectives**:



Substantial boost in public sector investment



Increased private sector engagement and investment



Increasing international collaboration



Raising awareness of the transformational potential of energy innovation

To date MI members collaboration focused on **8 innovation challenges**:



IC1Smart Grids



IC2Off-grid Access to Electricity



IC3Carbon Capture



IC4Sustainable Biofuels



IC5Converting Sunlight



IC6Clean Energy Materials



IC8Renewable and Clean



Hydrogen

The story so far

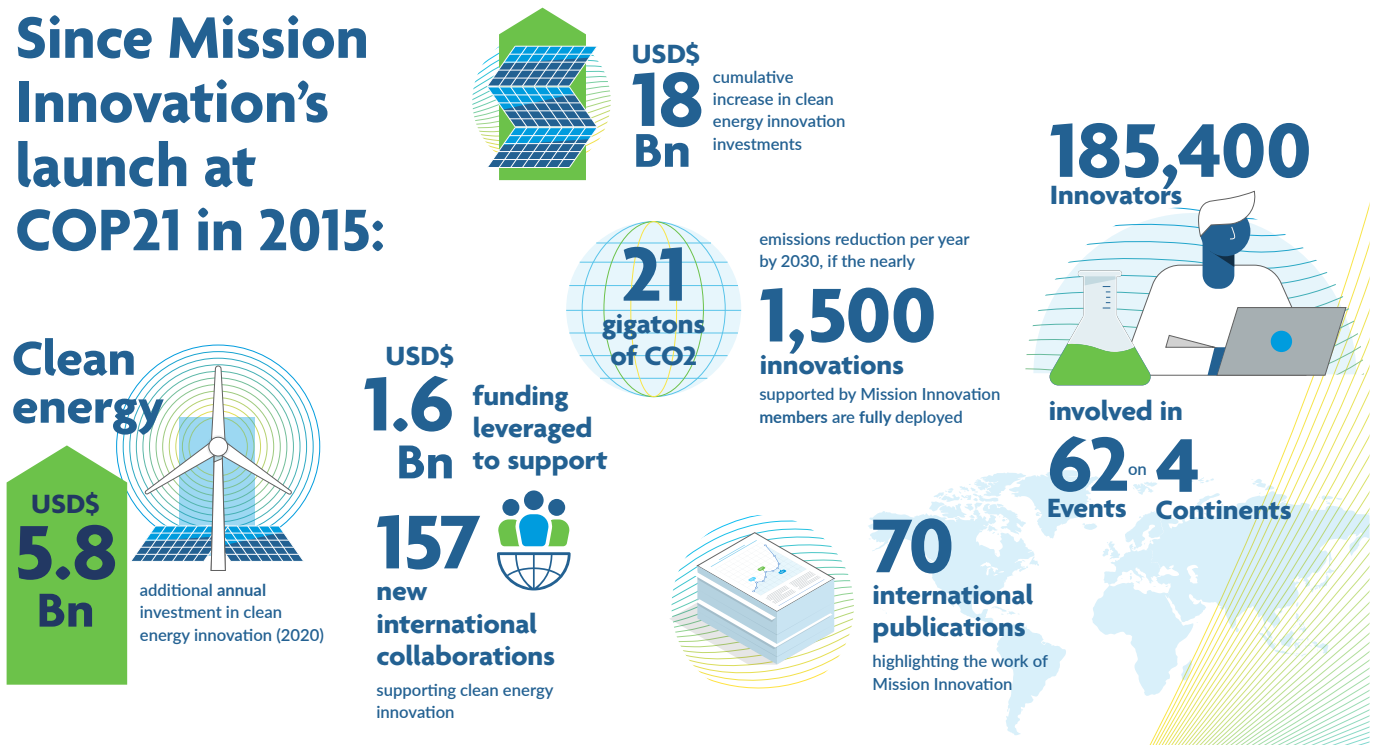
In its first five years,

- MI members successfully **stimulated global efforts, increasing investments by more than USD 4.9 billion and developing new collaborations**. New initiatives and investment funds were launched in partnership with the private sector to accelerate the commercialisation and scale up of new clean energy technologies in areas like electricity, transportation and buildings.
- MI Members invested **USD 1.4 billion in 70 new international cooperation activities** on clean energy such as joint or coordinated RD&D calls, demonstration projects, and student and researcher exchanges.
- MI also delivered **1000 innovations** globally with the potential to avoid 12 gigatonnes of CO₂ emissions per year by 2030 if fully deployed.
- MI members cooperated around the **eight innovation challenges** to mobilise researchers, encourage sharing of best practices, and to align the ambitions and goals of different clean energy research, development and demonstration programmes.

Examples [for the European Commission]:

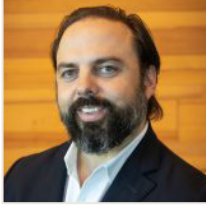
- In the renewable and clean hydrogen innovation challenge, the European Union invested half a million euros in a Hydrogen Valleys Global Collaboration Platform. The platform connects partners involved in piloting, testing and improving various hydrogen applications in integrated ecosystems.
- The innovation challenge on affordable heating and cooling of buildings brought Horizon 2020 financing to the COMBIOTES project, which will develop a modular and compact thermal energy storage solution for the heating, water and cooling systems we use in our homes.

Since Mission Innovation's launch at COP21 in 2015:



Since joining MI in [year], [my country] has invested \$[xxbn] in clean energy innovation.

Mission Innovation also launched a **MI Champions Programme** to celebrate and support innovators who are accelerating the clean energy revolution by working on key clean energy research and technology developments. In 2019 and 2020, 40 innovators in clean energy received the Mission Innovation Award.



Álvaro Beltrán, the 2019 Champion for the EC, is the inventor and producer of the first transparent solar photovoltaic glass for buildings. This glass, which costs the same as alternative building materials, generates electricity.



María Luisa Hernández Latorre, 2020 Champion for the EC, runs a company, which recovers carbon from organic waste and produces biomaterials for industry.

MI.2 – ambitions for the second phase

MI's second phase started on 2 June 2021. In this next phase, MI members will focus on outcomes and concrete actions to maximise innovation investments and bring solutions to the market. There will be a greater emphasis on gender, youth and private sector involvement in the future MI work and its key activities and output.

MI will operate through **public-private innovation “Missions”** with ambitious and inspirational goals that can lead to tipping points in the cost and scale of clean energy solutions.

The first three Missions on “Hydrogen”, “Shipping” and “Power” were launched at the Ministerial meeting in Chile, in June 2021. Additional Missions may be launched in the future, for example at COP26 and beyond. The European Commission is co-leading on the “Hydrogen” Mission.

A new **Innovation Platform** will strengthen collaboration on the continued innovation challenges, accelerate learning, boost knowledge exchange and support every country to maximise the impact of their investments.

Clean energy transition is a necessary element of our net-zero future and a key driver of the European Green Deal. The EU is proud to be part of Mission Innovation, which is one of the most visible and successful international platforms, projecting the ambitions of the European Green Deal on the global stage.

MORE INFORMATION

<http://mission-innovation.net/>

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