Net zero emission industry 2050 Mission scoping process Information for potential mission co-leads/members/partners

prepared by AIT Austrian Institute of Technology on behalf of the Austrian Climate and Energy Fund and the Austrian Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology, last change: 07.02.2021



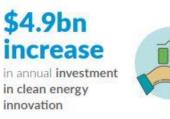


Background: What is Mission Innovation (MI)?

- MI was announced at COP21/Nov 2015
- It is a global intergovernmental initiative working to accelerate clean energy innovation.
- 25 members on 5 continents try to stimulate innovation - to make clean energy more widely affordable.
- An ambitious 2nd phase of MI will be launched at the 6th MI Ministerial hosted by Chile in 2021 and will include new public-private innovation alliances – so called Missions

SINCE 2015

Mission Innovation members' have delivered:









\$1.4bn funding for **70 new international collaborations** supporting clean energy





selected as Mission Innovation Champions



globally with the potential to avoid 12 gigatonnes CO₂ emissions per year by 2030 if fully deployed

innovation





on 4 continents involving 185,400 innovators, investors and policy makers



- Missions ...
 - o solve a major clean energy solution gap directly relevant to several countries and their citizens which is dependent on research and innovation.
 - o have the ambition and commitments to accelerate tipping points towards attractive clean energy pathways.
- Participation is voluntary
- Delivery-focused alliance between countries, corporations, investors and research institutes
- Medium-term horizon of ten years



UPCOMING: Mission proposal **Net zero emission industry 2050**

Aim

 Accelerate the cost-effective deep decarbonization of energy-intensive industrial systems by RTD&Demonstration of low-carbon energy technologies and processes for long-term GHG emissions reduction with high market potential.

Potential stretch goal

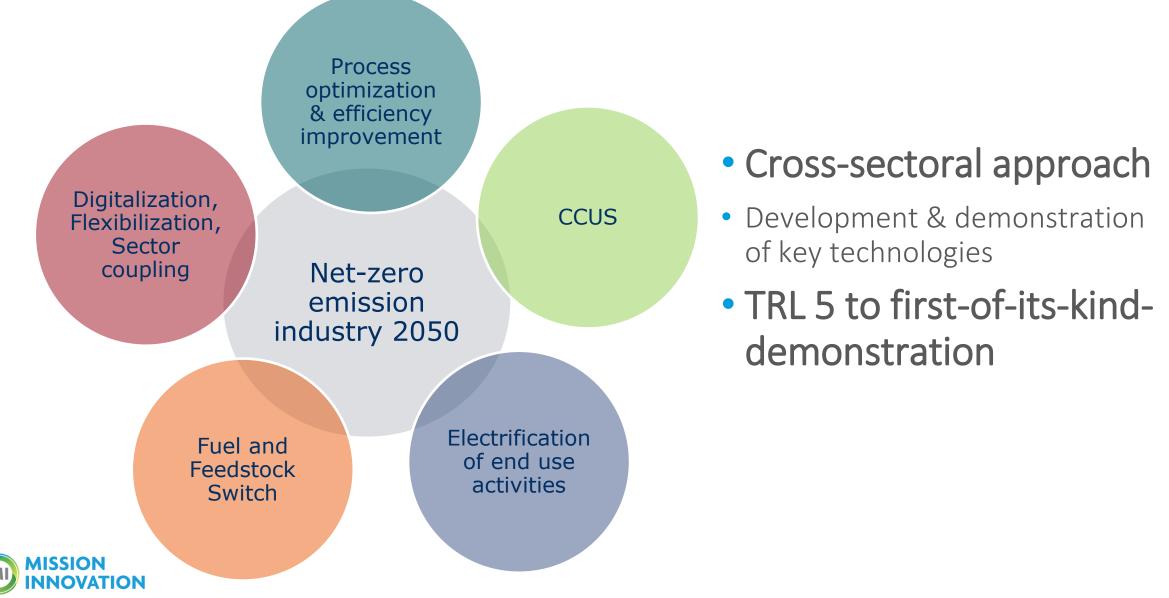
• <u>By 2030</u> large scale demonstration of [50] net-zero emission industry model solutions based on innovative energy technologies.

Potential activities

- <u>By 2030 [5] joint RD&D calls of MI Members</u> funding budget > 100 MEUR.
- Establish a network of leading laboratories and RTD institutes in the field of low-carbon infrastructure (grids, pipelines, communication systems...)

UPCOMING: Mission *Net zero emission industry 2050* Fields of innovation

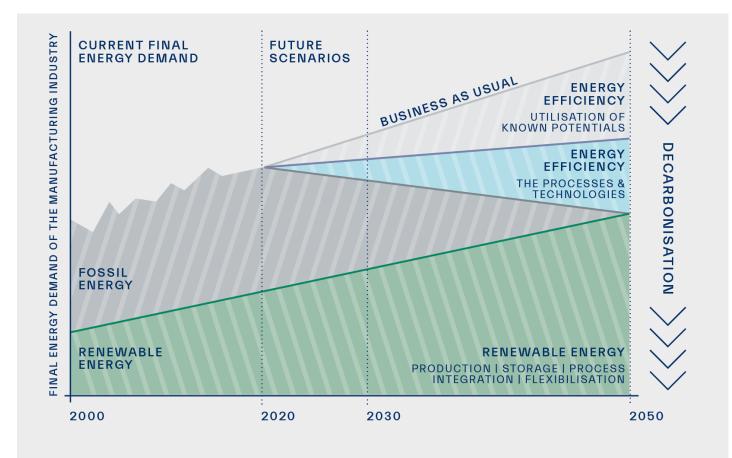




UPCOMING: Mission Net zero emission industry 2050 Showcase NEFI: Exchange of experience on a global scale



EXAMPLE: NEFI – New Energy for Industry as Austrian showcase

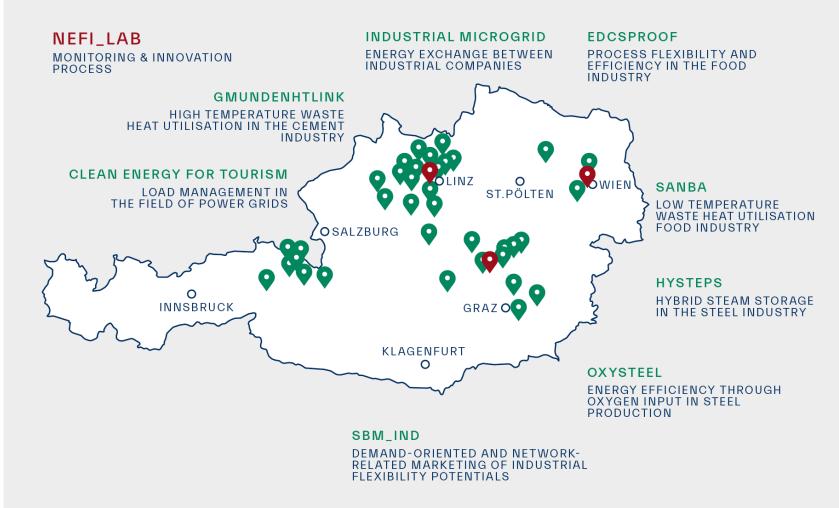


Key technologies "Made in Austria" enable the decarbonisation of industrial energy systems and help to secure Austria's position as an industrial location.

UPCOMING: Mission *Net zero emission industry 2050* Showcase NEFI: Project Map



Geographical distribution of projects and industrial sites



17 Projects.100 Partners.> 40 Mill.€ Invest.

FURTHER INFORMATION: www.nefi.at/projects



- The "Net-zero emission industry 2050" mission proposal was submitted in August 2020 and volunteered for the second wave of missions which are foreseen to be launched at COP 26 in November 2021
- Proposal received as relevant with big need for innovation and coordinated action
- Austria is willing to lead the scoping process
- Process to identify potential cooperation partners ongoing
 - MI members that indicated interest: Australia, European Commission, India, Saudia Arabia, United Kingdom, United States
 - Potential partner organisations: Clean Energy Ministerial (CEM), COP26 Climate Champions, IEA IETS, Leadership Group for Industry Transition (LeadIT), SPIRE, World Economic Forum (WEF) – Mission Possible Partnership (MPP)

o The Net Zero Emission Industry Mission wants you!





Mission Scoping by Austrian Climate and Energy Fund

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