경제혁신 3개년 계획 대한민국 제도약의 힘, 창조경제

산업통상자원부 미래창조과학부

보 도 자 료

희망의 새시대

http://www.motie.go.kr

2016년 6월 3일(금) 석간부터 보도하여 주시기 바랍니다.
(인터넷, 방송, 통신은 6.3(금) 오전 6시 이후 보도 가능)

문의 : 산업통상자원부 에너지기술과 나성화 과장(044-203-4540),
우경필 사무관(4542), 박성일 사무관(4543)
미래창조과학부 원천기술과 김진우 과장(02-2100-2380), 이병희 서기관(2384)

정부, 향후 5년 내 청정에너지 연구개발 공공투자 두 배로 늘린다

- 2016년 5,600억 원에서 2021년 1.1조 원 규모로 확대 추진

- 1차 미션이노베이션 장관회의에서 21개 회원국 투자확대 계획 발표

- 청정에너지 중점투자를 통해 기후변화 대응 및 에너지신산업 창출 촉진

□ 산업통상자원부(장관: 주형환)는 **미국 샌프란시스코에서 열리는 제1차 미션이노베이션 장관회의***(현지시간 6.1~2일간)에서 각국의 에너지 장관들과 함께 **청정에너지 연구개발 공공투자 확대계획을 발표**했다.

* 제7차 청정에너지장관회의(CEM7, 샌프란시스코, 6.1~2)의 연계행사로 개최

○ 이에 따르면 **한국은 2016년 5,600억 원 수준**인 청정에너지 핵심 기술에 대한 투자를 **2021년까지 두 배 규모로 확대**하게 되며,

○ 21개 미션이노베이션 회원국의 투자규모를 모두 합하면 **현재 150억 달러 수준에서 향후 5년 내 300억 달러로 증가**할 예정이다.

□ 지난 해 **우리 정부**는 유엔(**UN**) **기후변화 당사국총회**(COP21, 파리)를 계기로, 향후 5년 내 청정에너지 연구개발 공공투자 두 배 확대를 목표로 하는 「**청정에너지 혁신미션**(Mission Innovation) **선언('15.11.30)**」**에 참여**한 바 있다.

○ 선언은 **청정에너지 기술혁신**을 통해 기후변화 대응, 에너지의 안정적 공급, 경제성장에 이바지 할 목적으로 미국, 프랑스 등 20개 회원국이 참여했으며, 이번 1차 장관회의에서는 유럽연합을 대표해 **유럽집행위원회(EC)가 21번째 회원으로 신규 가**입했다.

□ 그동안 정부는 혁신미션 선언 이행을 위해 국가과학기술위원회 위원장('11~'13)을 역임한 **김도연 포항공대 총장을 위원장**으로 하고 관계부처*, 산·학·연 전문가 등 200여 명이 참여하는 **미션이노베이션 위원회를 출범**('16.2.4)한 바 있으며,

* 산업부·미래부(공동주관), 외교부, 국토부, 환경부, 해수부, 기재부 등

○ 위원회는 우리 정부가 향후 중점 투자해 나갈 **핵심 유망 청정 에너지 기술을 선별**하고, **투자 확대를 위한 기준금액을 산정**하는 작업을 진행해 왔다.

○ 그 결과, **신재생에너지, 효율향상 등 6대 중점 투자분야*를 선정했**으며, 해당 분야의 **2016년 공공투자 규모(기준금액)는 약 5,600억 원****으로 2021년까지 두 배로 투자규모를 확대해 나갈 계획이다.

* 신재생, 효율향상, 수요관리, 원자력, 화력·송배전, 이산화탄소 포집 및 활용(CCUS)

** 중점 투자분야의 '16년 투자금액을 선별·합산하여 산출
정부투자 약 4,500억 원, 공기업(한전, 한수원, 5개 화력발전사) 투자 약 1,100억 원

○ 향후 위원회는 6월까지 중점 투자분야별 기술개발 전략을 수립하여 최종 단계별 이행안(로드맵)을 마련해 나갈 예정이다.

□ 한편, 이번 1차 미션이노베이션 회의에서 회원국들은 각국이 제출한 기준금액과 국가별 중점 투자 분야에 대해 정보를 공유하고, 민간투자 연계, 공동연구 확대 등 다양한 협력활동을 구체화 하는데 노력하기로 합의했다.

□ 행사에 참석한 산업통상자원부 우태희 차관은, "청정에너지 기술 혁신과 보급 확대를 위해서는 **민간부문의 적극적인 투자가 필수**적인 만큼 **정부는 공공부문의 선도투자**를 마중물 삼아 **민간투자를 활성화하는 데 주력**할 예정"이라며,

○ "청정에너지 기술 경쟁력 확보를 통해 **기후변화 대응 국제리더십을 유지**하고 **에너지 신산업 육성을 든든하게 뒷받침**할 수 있을 것"이라고 밝혔다.

<참고자료> 1. 미션이노베이션 선언 및 1차 장관회의 개요
2. 미션이노베이션 창립 장관회의 회원국 공동 보도자료

OPEN 공공누리 공공저작물 자유이용허락

이 보도자료와 관련하여 보다 자세한 내용이나 취재를 원하시면 산업통상자원부 에너지기술과 우경필 사무관/박성일 사무관(☎ 044-203-4542~3)에게 연락주시기 바랍니다.

참고1 미션이노베이션 선언 및 1차 장관회의 개요

□ **(혁신미션 선언)** 정부는 파리 기후총회時 '**청정에너지 혁신미션**(Mission Innovation,)'에 참여('15.11), 청정에너지 기술 투자확대 약속

< 혁신미션(MI) 공동선언문 주요내용 >

◇ **청정에너지 분야 공공부문 R&D 투자를 5년 내 2배 확대 노력**
◇ 각국 R&D 투자정보 주기적 공유, ◇ 정부와 민간부문 투자연계 강화

○ **청정에너지 기술혁신**을 통해 기후변화 대응, 에너지의 안정적 공급, 경제성장에 기여할 목적으로 **미국, 프랑스 등 20개 회원국**이 참여

* 금번 1차 장관회의에서 유럽집행위원회(EC)가 21번째 회원으로 신규가입

< 청정에너지 혁신미션(Mission Innovation 개요 >



□ **(1차 장관회의)** 각국의 투자확대 계획*을 공유하고, 국제공동연구와 기술개발 로드맵 분석 등 회원국 간 협력의제에 대해 논의

* 한국 : '16) 4.9억$(5,600억원) → '21) 9.8억$(1.1조원), 21개국 전체 : '16) 150억$ → '21) 300억$

< 주요 행사일정 >

일 시		내 용
6.1 (수)	09:00-10:45	**MI 장관회의(비공개)**
	11:00-17:45	※ CEM7 장관회의
6.2 (목)	07:30-16:00	※ CEM7 장관회의
	16:00-18:00	**MI Open press** - 투자계획, 국가간 협력의제 등 발표, 패널토의

* 제7차 청정에너지장관회의(CEM7, 샌프란시스코, 6.1~2)의 연계행사로 개최

참고2 **미션이노베이션 창립 장관회의 회원국 공동 보도자료**

MISSION INNOVATION
Accelerating the Clean Energy Revolution

Inaugural Mission Innovation Ministerial Pledges Unprecedented Support for Clean Energy Research and Development

21 Mission Innovation partners will seek to double budgets, providing $30 billion per year in governmental investment by 2021

PRESS RELEASE

San Francisco, California, June 2, 2016 – At the inaugural Mission Innovation (MI) Ministerial, ministers from all Mission Innovation partners released their respective governments' plans to double clean energy research and development funding over five years. Ministers also welcomed the European Commission on behalf of the European Union as the 21st partner.

Collectively, these 21 partners represent well over 80 percent of global public investment in clean energy research and development, currently totaling approximately $15 billion per year. The 21 partners have each pledged to seek a doubling in their governmental and/or state-directed clean energy research and development investment over five years, reaching around a combined $30 billion per year by 2021. These efforts under Mission Innovation represent an unprecedented acceleration of research and development efforts for innovative clean energy technologies.

Ministers also met with leaders of the Breakthrough Energy Coalition and other leading energy investors, underscoring the critical link between government innovation and entrepreneurship to bring affordable clean energy technologies to market.

In recent years, thanks to advances in research in many places worldwide, there has been remarkable progress in driving down the cost of key technologies by 40 to 90 percent, notably in land-based wind power, rooftop and utility solar, electric car batteries, and LED lighting.

As costs have dropped, demand has surged. These successes show the power of innovation – driven by sustained public investment in research and development coupled with business leadership – to bring once fledgling ideas into the mainstream.

These impressive gains, however, are still insufficient to meet our long-term climate goals, while providing affordable, reliable, and secure energy supplies. Reducing the cost of clean energy technologies still further – driven by innovation and public-private investment in research and development – will underpin global strategies to enhance global energy security, drive economic growth, bring life-changing energy services to the poor and increase ambition in combatting climate change.

Under Mission Innovation, each MI partner independently determines a strategy for clean energy innovation funding based on individual national resources, needs, and circumstances. MI partners also encourage mutually beneficial engagement with other partner countries in international collaborations.

At the inaugural ministerial, MI Ministers formed a Steering Committee, adopted an Enabling Framework, and agreed to a mission statement to help provide a foundation for accelerated progress. MI partners also issued the preliminary results from an analysis of existing technology roadmaps where a number of countries have already identified initial tangible opportunities for additional collaboration.

During the ministerial, each government also provided information on national clean energy needs, plans, priorities, and supporting policies and programs for clean energy innovation. A series of webinars over the coming months will provide an in-depth look on a country-by-country basis. Schedule and registration information for the webinars are available on the MI website.

QUOTES FROM MI MINISTERS

"Our support for Mission Innovation is crucial to funding the basic scientific research and development that will underpin the advanced clean energy solutions needed to combat climate change in the 21st century," said U.S. Secretary of Energy Ernest Moniz. "These technologies will help drive down adoption costs to grow low-carbon economies and create an entirely new markets for the solutions that will reduce heat trapping emissions."

“The European Commission is honoured to be part of Mission Innovation,” said European Commission Vice President for Energy Union Maroš Šefčovič. “Scaling up clean energy innovation is key to the success of the European Energy Union and to the implementation of the Paris Agreement on Climate Change. It also represents a major global economic and industrial opportunity. Mission Innovation therefore coheres perfectly with our upcoming research, innovation and competitiveness strategy.”

“The clean energy R&D investment by MI members represent a transformative public investment to support clean energy development and provides a clear direction of the areas in which each country has decided to move forward, including areas of high technological risk and uncertainty,” said Mexican Secretary of Energy Pedro Joaquín Coldwell. “Patient and long term investment from private sector will be key to complement public investment to accelerate these technologies to the market."

“Indonesia is committed to accelerate the innovation and investment in clean energy,” said Indonesian Minster of Energy Sudirman Said. “We pledged to increase our state research and development budget on clean energy nine times over the next 5 years with the intention to boost our nation capabilities, to attract investment and to work with our neighbors to promote clean energy revolution in the region."

“I am pleased to note that Ministers have endorsed the recommendations made by MI countries and subgroups will now work together to lead the objective of Mission Innovation,” said Indian Minister of Science & Technology and Earth Sciences Harsh Vardhan. “I would like to reaffirm India’s commitment to pursue green path to growth through Research Innovation and Joint Collaboration.”

“Innovative technologies will play a key role in Canada’s transformation into a low-carbon economy,” said Canada’s Minister of Natural Resources, the Honourable Jim Carr. “By doubling our investment in clean and emissions-reducing energy technology, we will help meet our climate change objectives, increase the productivity and competitiveness of Canadian firms and create clean jobs. We look forward to working with our domestic and international partners to help advance our Mission Innovation goals.”

“Clean energy is the future, so research and innovation must be at the forefront of our efforts to create sustainable, low-carbon economies,” said European Commissioner for Research, Science and Innovation Carlos Moedas. “In contributing to Mission Innovation,

the European Commission aims to use the European Union's leadership and political commitment to the development of low-carbon technologies, while sharing its extensive experience in coordinating international research and innovation collaboration, to accelerate the clean energy revolution."

“Over the last decade, the UAE has led the growth of clean energy in the region and established solid foundations upon which to build a green economy for future generations,” said UAE Undersecretary of Energy Matar Hamed Al Neyadi. “The nation has adapted its energy sector to clean energy and has endorsed policies and initiatives to improve energy efficiency.”

“As EU Presidency we fully support the European Mission Innovation membership,” said The Netherlands Vice-Minister of Economic Affairs Maarten Camps. “In accordance with the EU’s ambitions I am pleased to announce The Netherlands’ candidacy for Mission Innovation, with the aim of becoming a full member during COP22 in November in Marrakech. Mission Innovation membership supports our ambitions relating to clean energy innovation.”

ABOUT MISSION INNOVATION

The Governments of Australia, Brazil, Canada, Chile, China, Denmark, France, Germany, India, Indonesia, Italy, Japan, Republic of Korea, Mexico, Norway, the Kingdom of Saudi Arabia, Sweden, the United Arab Emirates, the United Kingdom, and the United States announced Mission Innovation (MI) on 30 November 2015. In support of economic growth, energy access and security, and an urgent and lasting global response to climate change, MI partners aim to accelerate the pace of clean energy innovation to achieve performance breakthroughs and cost reductions to provide widely affordable and reliable clean energy solutions that will revolutionize energy systems throughout the world over the next two decades and beyond. The European Commission on behalf of the European Union joined Mission Innovation on 1 June 2016.

Additional information, including each MI partner's doubling plan, is available at www.mission-innovation.net.

To contact the MI Secretariat, email secretariat@mission-innovation.net.