



Mission Innovation: Key International Collaboration for Clean Energy Research Breakthroughs

Université Paris-Saclay

October 4, 2016

Jonathan Elkind

Assistant Secretary for International Affairs, U.S. Department of Energy

➤ On Climate Change Mitigation, Time is Running Out:

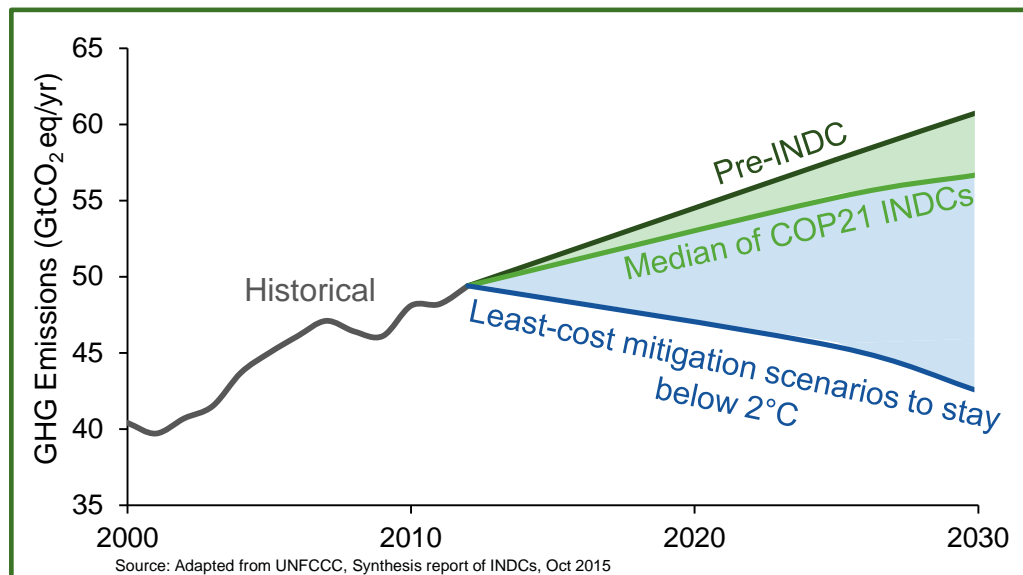
- GHG Concentrations are Rising
- Current Solutions are Helping, but More Ambition is Needed
- INDCs Fall Short of 2°C Goal
- Pace of Technology Innovation is Too Slow; Costs are Still Too High

➤ Good News - Mission Innovation Can:

- Accelerate Innovation with Large New Investment and Cooperation
- Create New Technologies, Improve Existing Technologies, and Reduce Costs
- Attract Business and Investor Interest and Spur Global Action

➤ Better News

- With Realized Gains, Enable More Ambition at the Next 5-Year INDC Review
- MI + Clean Energy Ministerial *Together* Can Provide a Path to “Actualize” the Paris Agreement



Mission Innovation

Clean Energy Ministerial

Create
New Ideas

Improve
Performance

Reduce
Cost

Raise
Awareness

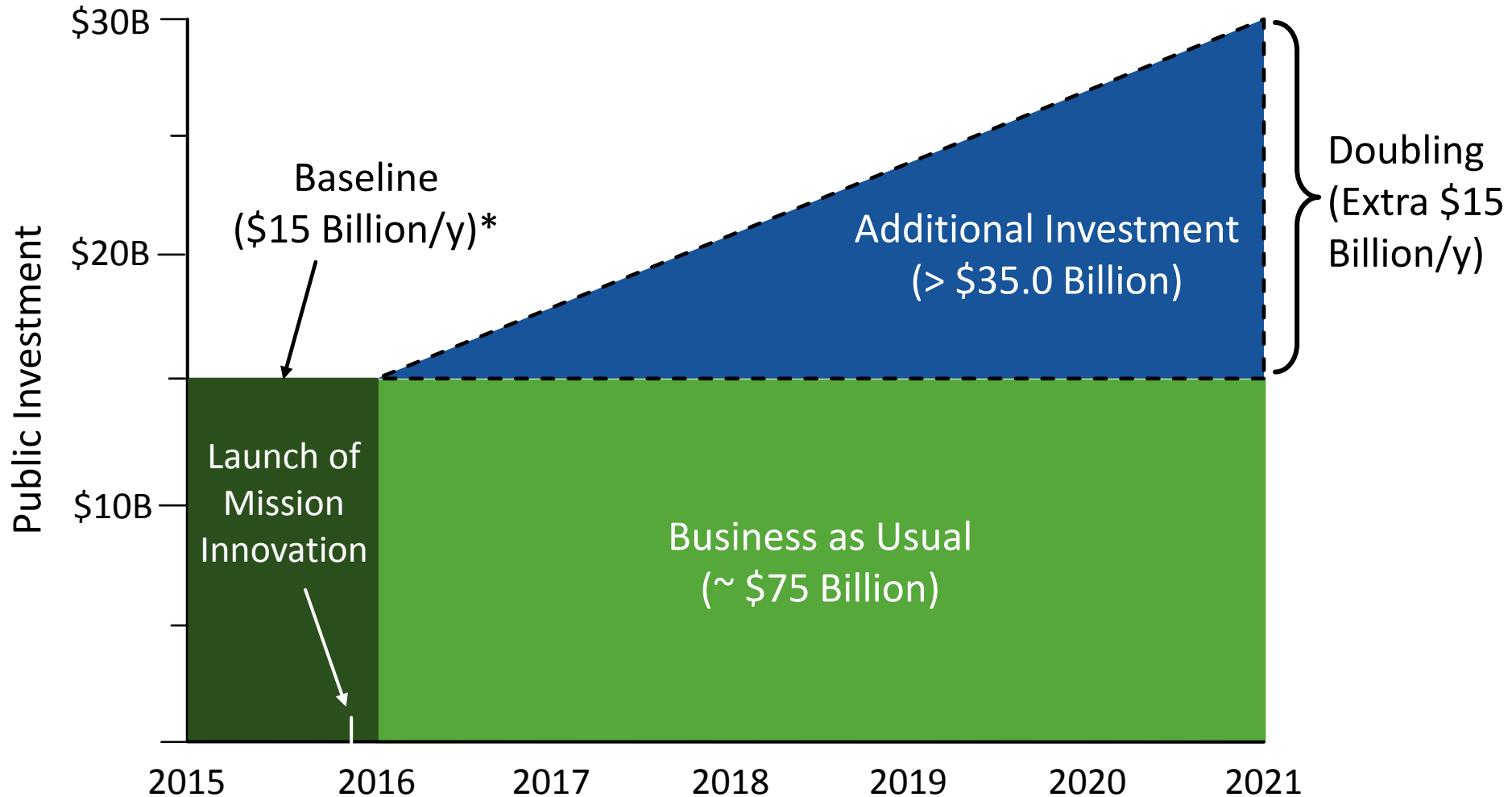
Facilitate
Market Uptake



Mission Innovation Countries Represent:

- 5 Most Populous Countries
- 60% of the World's Population
- 68% of the Total Greenhouse Gas Emissions
- 82% of Global GDP
- 75% of the CO₂ Emissions from Electricity
- Well over 80% of Government Investment in Clean Energy R&D

Added R&D Investment is Significant



* MI Baseline of USD \$15 billion per year in clean energy R&D is compiled from reports of 21 MI Members.

- Funding
 - Governments Securing Budgets on Path to Doubling Targets
- R&D Cooperation
 - Exploring & Developing Collaborative Research Opportunities at Workshops in September and October in London and Paris
 - Populating E-Library of MI Country Reports and Roadmaps Now Available on MI Website (mission-innovation.net)
 - Sharing Information on Country R&D Portfolios and Priorities for all 21 MI Countries, including U.S. and France
- Business Engagement
 - Engaging Private Sector through Monthly Webinars
- Further Implementation and Sustained Innovation
 - Periodically Taking Stock of MI Progress
 - Making Strategic Adjustments as Needed