

## **Public-Private Roundtables – Tuesday, May 28, 2019**

*Transformation of the Industrial Sector*  
Co-Chairs: United Kingdom, Japan, Australia

### **Brief Overview:**

---

Discussion will focus broadly on the challenges facing the industrial and manufacturing sectors as critical sectors in delivering to global abatement goals. Participants will identify the key shared problems that need attention then follow with discussion on how government and the private sector can work together; this could include research and development opportunities, collaboration opportunities, and strategies to remove barriers to accelerate transition.

### **Narrative:**

---

Even as new manufacturing techniques and cleaner materials are being developed, some aspects of the industrial sector continue to have difficulty reducing emissions. These sectors include cement, steel and chemicals. It is important to act in these sectors now given the challenge they present through their long investment timeframes and the need to make changes to both energy sources and processes in often highly integrated systems.

There are a range of expert reports which show how these sectors could be transformed including Mission Possible which was produced by the Energy Transitions Commission. This report notes that public sector R&D is critical to foster radical technological breakthrough in these hard to abate sectors. Further, that R&D goals should have specific quantitative objectives 10 to 15 years ahead in priority areas.

Both new energy sources and new processes are needed for these hard to abate sectors. Hydrogen and carbon capture use and storage offer options but there is a challenge ahead to identify approaches that will deliver these given the scale and rate of change required.

Significant investment in RD&D will be needed, underpinned by coordinated efforts from government, business and stakeholders. Successful public-private partnerships would add value and avoid extra cost, thereby enabling the sector to innovate faster and more effectively.

### **Session Structure:**

---

<b>Introduction</b>	5 minutes	Co-Chair/s
---------------------	-----------	------------

---

<b>Scene Setter</b>	5 minutes	Discussion Leader
<b>Discussion</b>	45 minutes	Participating countries and industry
<b>Conclusion</b>	5 minutes	Discussion Leader/Co-Chair/s

## **Desired Outcomes:**

---

To identify opportunities where public-private collaboration can make a significant difference and support Mission Innovation in accelerating technology breakthroughs.

The discussion should aim to identify concrete actions towards partnerships that could be implemented in the next two years.

## **Guiding Questions:**

---

- What are the key RD&D challenges and priorities in these sectors?
- How can private-sector participation in early-stage energy innovation be increased?
- Collaboration:
  - What public-private collaboration on RD&D could lead to radically faster breakthroughs in these sectors?
  - How can industries work together (rather than in isolation) to find solutions, what opportunities are there for collaboration and is there a role for co-design between sectors?