



# ETP-2020: Accelerating Clean Energy Technology Innovation

An IEA workshop

International  
Energy Agency

An abstract graphic on a dark blue background. It features several vertical white lines. To the left of these lines are numerous small, semi-transparent colored circles in shades of blue, orange, and red. To the right, a dense web of thin, curved lines in the same color palette extends across the frame, creating a sense of dynamic movement and interconnectedness.

18 December 2019, Paris

## **ETP-2020: Accelerating Clean Energy Technology Innovation**

### **An IEA workshop as an input into Energy Technology Perspectives 2020**

18 December 2019

9 Rue de la Fédération, 75015 Paris.

The International Energy Agency is hosting a high-level workshop entitled “**ETP-2020: Accelerating Clean Energy Technology Innovation**” on Wednesday, 18 December 2019, in Paris, France, in order to inform its analysis for the 2020 edition of the Energy Technologies Perspectives (ETP).

The ETP series has for more than a decade contributed to global energy and environmental policy-making. To further strengthen its relevance to decision-makers in governments and industry, the IEA has decided to revamp the publication and release a new edition in June 2020 with the objective to become a “world’s guidebook on clean energy technologies”.

A cleaner and more secure energy sector will require the use of energy technologies that are still in the lab today or at early stages of deployment. But technology transitions take time: for example, solar PV or batteries took decades to be commercialised and become competitive in the market place. The 2020 edition of ETP will analyse how past experiences can help design more effective policies for innovation and RD&D prioritisation with a view to governments’ efforts for reaching their long-term energy objectives, including for a cost-effective transition to net-zero emissions while enhancing energy security.

The workshop convenes a select group of key experts and high-level decision-makers from academia, governments and industry to give strategic direction to ETP-2020. The workshop will be informal in nature and held under the Chatham House Rule. Attendance is by invitation only.

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08.30 *Registration and coffee*

### 09.00 **Welcome remarks**

Dr. Fatih Birol, IEA Executive Director

### **Session 1 How to bring a new technology to the market? Lessons from past experiences in clean energy technology innovation for ETP-2020**

09.30 This session will delve into past experiences with the main driving factors for the development of new clean energy technologies and their commercialisation at a competitive cost. Illustrative cases will be presented and discussed focusing on success stories with a view to the lessons that can be learned for future enhanced innovation programmes.

11.00 *Coffee break*

### **Session 2 RD&D prioritisation in businesses and governments – what are the best practices to draw upon for ETP-2020?**

11.30 The session will discuss how perceived risks and opportunities can trigger the need to innovate and the priority areas on which businesses and governments are currently focusing their RD&D efforts. It will discuss decision criteria for technology RD&D that are being applied in different sectors and look into the relevance of clean energy RD&D spending in governments' and industries' overall portfolios.

13.00 *Lunch*

### **Session 3 Connecting the dots: taking advantage of spillover effects and technology synergies**

14.30 A broad portfolio of new clean energy technologies will be needed at affordable and scalable levels for reaching energy policy objectives. Taking advantage of spillover effects and technology synergies is critical to adequately prioritise the use of limited resources. This session will explore strategies to analyse these positive effects to better prioritise efforts on clean energy RD&D.

16.00 *Coffee break*

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<b>Session 4</b>	<b>Towards a more secure and cleaner energy sector: ways to accelerate clean energy technology innovation</b>
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16.15	Even successful models, such as solar PV, took decades from laboratories to markets at low-cost. Meeting long-term energy security and climate goals will require the design of more effective innovation models that are able to deliver more rapidly competitive clean energy technologies. This session will discuss how innovation efforts for clean energy technologies can be accelerated.
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<b>Session 5</b>	<b>Tour de table and concluding remarks</b>
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17.45	All workshop participants will give their prioritized guidance for IEA analysis for ETP-2020 going forward.
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18.30	<i>End of meeting</i>
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