

## REPORT FROM THE IEA SECRETARIAT H1 2020

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*The IEA Secretariat report provides an overview of recent developments within the network and the IEA Secretariat that are of interest to all Technology Collaboration Programmes (TCPs). This report is designed to complement the information provided by your Desk Officer related to IEA analysis and projects (current and planned) of relevance to individual TCPs. If you have comments or questions, please forward to [TCP@iea.org](mailto:TCP@iea.org).*

### 1. IEA SECRETARIAT



#### Put clean energy at the heart of stimulus plans to counter the coronavirus crisis

The impact of the coronavirus around the world and the resulting turmoil in global markets are dominating global attention. As governments respond to these interlinked crises, they must not lose sight of a major challenge of our time: clean energy transitions. The IEA Executive Director, Fatih Birol, shares his thoughts in this [recent commentary](#).



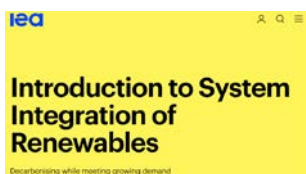
#### Building an energy and climate grand coalition

The IEA hosted a high-profile [‘Big Ideas’ discussion](#) this month with three COP hosts to review how the energy sector can meaningfully reduce greenhouse gas emissions. The event took place the day after the IEA released [new data](#) showing that global energy-related carbon dioxide emissions [stopped growing in 2019](#) even as the world economy expanded by 2.9%. [Watch the discussion](#).



#### IEA ETP2020 workshop highlights crucial role of carbon capture technologies for clean energy transitions

This [recent high-level workshop](#) on CCUS will inform IEA analysis for the new edition of the flagship Energy Technology Perspectives publication to be published in June 2020.



#### Introduction to System Integration of Renewables

Integrating higher shares of variable renewable energy (VRE) technologies in power systems is essential for decarbonising the power sector while continuing to meet growing demand for energy. Thanks to sharply falling costs and supportive policies, VRE deployment has expanded dramatically in recent years. However, the inherent variability of wind and solar PV power generation raises challenges for power systems operators and regulators. Access this recent [online technology report](#).



#### [The Oil and Gas Industry in Energy Transitions](#) (WEO special report)

While some oil and gas companies have taken steps to support efforts to combat climate change, the industry as a whole could play a much more significant role through its engineering capabilities, financial resources and project-management expertise, according to this report.

## Recent IEA commentaries

- [Gender diversity in energy](#): what we know and what we don't know
- Record year for [gas liquefaction investment](#) lights a path towards market flexibility
- This is our chance to make 2019 the [definitive peak in global emissions](#)
- Canada steps up its efforts to [reduce methane emissions](#)
- [Going carbon negative](#): what are the technology options?
- [India is going to need more battery storage](#) than any other country for its ambitious renewables push
- [Empowering electricity consumers](#) to lower their carbon footprint
- [Data centres and energy](#) – from global headlines to local headaches?
- Accelerating clean energy innovation means [tailoring R&D policy to technology scale and risk](#)
- [Energy efficiency is the first fuel](#), and demand for it needs to grow
- Fading fast in the US and Europe, [coal still reigns in Asia](#)

## COMING UP

**[2<sup>nd</sup> AUC-IEA Ministerial Forum \(21 April\)](#)**: The 2<sup>nd</sup> edition of the Forum will bring together a diverse mix of high-level stakeholders from government, industry and other international organisations to discuss the development of Africa's energy sector.

**[IEA Clean Energy Transitions Summit \(9 July 2020, Paris\)](#)**: A ministerial-level event bringing together key government ministers, CEOs, investors and other major stakeholders with the aim of accelerating the pace of change through ambitious and real world solutions. The Summit will be preceded by the fifth Annual Global Conference on Energy Efficiency, which will take place in Paris on 8 July, providing the opportunity to review the recommendations for the [Global Commission for Urgent Action on Energy Efficiency](#).

**[Energy Technology Perspectives 2020 \(June 2020\)](#)**: Energy Technology Perspectives (ETP) has for more than a decade contributed to global energy and environmental policy-making. A new edition will be released in June 2020 with the objective to become the world's guidebook on clean energy technologies.

## 2. COMMITTEE ON ENERGY RESEARCH AND TECHNOLOGY (CERT)

### CERT Chair

The first CERT meeting of 2020 took place on 18-19 February under the leadership of the new Chair, Amanda Wilson (Natural Resources Canada). In her welcome she highlighted the importance of the CERT as a knowledge hub that encourages the best use of the expertise of delegates, the activities of the TCP network and the IEA Secretariat.

### Thematic discussion on energy efficiency and digitalisation

Representatives from the EBC, HPT, 4E and Users TCPs participated in a half-day thematic discussion to facilitate exchange on ongoing activities, as well as technology opportunities and current RD&D priorities of energy efficiency, with a special focus on digitalisation.

### Today in the Lab – Tomorrow in Energy?

Firstly, thank you to all TCPs who submitted projects of which there were 53 with a good thematic and geographic spread across all technology sectors.

There was lively discussion around this item with CERT delegates expressing great support for this initiative and suggestions on how it could be further refined and developed in the future.

Delegates had until early-March to select five projects, via an online survey, based on how closely the submissions meet the stated criteria, on their appeal to the broader public, and the extent to which they reflect the breadth of technology work in the TCP network. The survey also offered delegates the opportunity to make suggestions on other forms of dissemination for all submissions, and the Secretariat will be in touch soon with further information including next steps.

### Next meeting

The next meeting of the CERT will take place at the IEA in Paris on 15-16 June 2020. Items on the agenda will include a thematic discussion, led by Switzerland and co-organised by the Experts' Group on R&D Priority Setting and Evaluation (EGRD), on how to integrate a multidisciplinary approach when designing R&D programmes.

## 3. WORKING PARTIES AND EXPERTS' GROUPS

### Working Party on Energy End-Use Technologies (EUWP)

The 77<sup>th</sup> meeting of the EUWP will take place as a webinar on the afternoon of 19 March. Items on the agenda will include the restructuring of the Co-ordination Groups and next steps for the Working Group on Cities and Communities.

### Fusion Power Co-ordinating Committee (FPCC)

The 49<sup>th</sup> meeting of the FPCC took place in Paris on 12-13 February 2020. It began with a strategic session on data processing and validation with guest speakers from the ITER Organization, the Max Planck Institute for Plasma Physics, MIT, and CERN sharing their experiences on the latest trends and perspectives in the area of big data. The FPCC is currently preparing the request for extension of its mandate which will be presented to the CERT in November.

### Working Party on Renewable Energy Technologies (REWP)

The 77<sup>th</sup> meeting of the REWP took place in Helsinki on 10-11 September 2019. A strategic discussion on sustainable bioenergy highlighted the importance of International collaboration platforms and activity underway in China and India on this key technology.

The next meeting of the REWP (including an Inter-TCP meeting on Integrated Energy Systems and Joint REWP-TCP Workshop on The Role of Storage for Energy System Integration) will be replaced by several webinar events between 6 and 9 April 2020.

### **Working Party on Fossil Energy (WPFE)**

In October 2019, CERT approved a new mandate and strategy for the Working Party on Fossil Fuels for 2020-2023, which includes a change of name to “Working Party on Fossil Energy”. The Working Party held its 77<sup>th</sup> meeting in Paris on 10-11 December 2019, where it benefited from significant interaction with analysts from across the IEA secretariat. The meeting also included presentations from the Oil and Gas Climate Initiative, the UN Economic Commission for Europe, the Tomakomai CCS project in Japan and Imperial College (reporting on a recent study undertaken for the IEA Coal Industry Advisory Board). The next WPFE meeting is currently planned for 18-19 May 2020, including a site visit on 20 May, hosted by the Swiss Geological Survey in Bern.

### **Experts' Group on R&D Priority-Setting and Evaluation (EGRD)**

The EGRD held a workshop on the topic of alternative fuels on 21-22 October 2019. A summary report identifying challenges and opportunities of alternative fuels and present perspectives and best practice for R&D planners and strategists can be downloaded from the website [here](#).

The EGRD has been invited to support the Austrian government in organising a workshop during the Mission Innovation Week in Austria on 23 April (tbc). The focus of the workshop is ‘energy communities’. The workshop will result in a summary report that identifies challenges and opportunities of energy communities and present perspectives for R&D planners and strategists. If you are interested in finding out more please contact Birte Holst Jørgensen, [bhjq@dtu.dk](mailto:bhjq@dtu.dk).

The EGRD will support Switzerland in organising the CERT thematic discussion that take place back-to-back with the 15-16 June CERT meeting. The focus of the thematic discussion is on how to integrate non-technical aspects in R&D programme and design.

## **4. TECHNOLOGY COLLABORATION PROGRAMME (TCP)**

### **TCP brand guide**

An updated version of the [TCP online brand guide](#) is now available. This guide advises TCPs on the use of the new logo and includes templates for common documents in a variety of formats as well as guidelines on how to use them. There is also a new section on communication which includes suggested text that you can use to describe the relationship between the IEA, the Technology Collaboration Programme, and your own work. For any questions contact [TCP@iea.org](mailto:TCP@iea.org).

### **Modernisation of the TCP legal mechanisms**

The IEA Committee on Energy Research and Technology agreed at its meeting in November 2019 to recommend changes to the TCP Legal Framework to the IEA Governing Board. We expect the Governing Board to consider the proposed updates by written procedure over the coming weeks. Assuming it is approved, the IEA Office of Legal Counsel will reach out to all TCPs to provide further information regarding next steps.

### **TCP webinars on engagement with emerging economies**

The IEA Secretariat continued the successful TCP webinars series holding two webinars regarding engagement with emerging economies:

1. ‘*Engaging with emerging economies – China*’ on Friday 10 January 2020 at 14h (CET)  
Contact: Alan Searl, China Programme Manager, [chinadesk@iea.org](mailto:chinadesk@iea.org)

2. *'Engaging with emerging economies – India'* on Thursday 6 February 2020 at 14h (CET)  
Contact: Nicole Thomas, India Programme Manager, [nicole.thomas@iea.org](mailto:nicole.thomas@iea.org)

The recordings of both webinars are available for download on the Forum under **Legal matters** (<https://delegates.iea.org/delegates/forum/>).

### TCP ExCo meetings

The [calendar of TCP ExCo meetings for 2020](#) is available on the Forum. We are doing our best to track meetings that have been cancelled or replaced with virtual meetings, but if information concerning your TCP is incorrect please let us know at [tcp@iea.org](mailto:tcp@iea.org).

If your TCP is undecided as to whether or not to hold a face-to-face meeting we suggest you follow the guidance of the host organisation/country.

### Recent new TCP participations

#### Contracting Parties



The **Turkish Society of HVAC & Sanitary Engineers** joined the **EBC TCP** as a Contracting Party on **14 February 2020**.



The **East African Centre for Renewable Energy and Energy Efficiency (EACREEE)**, **Uganda**, joined the **SHC TCP** as a Contracting Party on **6 February 2020**.



**Natural Resources Canada** joined the **USERS TCP** as a Contracting Party on **4 February 2020**.



**Ricerca sul Sistema Energetico (RSE)**, **Italy**, joined the **ETSAP TCP** as a Contracting Party on **3 February 2020**.



The **China Automotive Technology Research Centre (CATARC)** joined the **HEV TCP** as a Contracting Party on **16 January 2019**.



The **Directorate General for Energy and Geology**, **Portugal**, joined the **Hydrogen TCP** as a Contracting Party on **7 January 2020**.



The **Ministry of Energy**, **Chile**, joined the **C3E TCP** as a Contracting Party on **16 December 2019**.



The **SDC Centre for Renewable Energy and Energy Efficiency (SACREEE)**, **Namibia**, joined the **SHC TCP** on **11 December 2019**.



The **Department of Economy, Science and Innovation**, **Belgium**, joined the **DHC TCP** as a Contracting Party on **9 December 2019**.



**Natural Resources Canada** joined the **Hydrogen TCP** as a Contracting Party on **26 November 2019**.

#### Sponsors

**International District Energy Association (IDEA)** joined the **DHC TCP** as a Sponsor on **18 December 2019**.

## IEA Secretariat – points of contact

Technology Collaboration Programme		
<a href="#">Uwe Remme</a>	ETSAP TCP	Cross-cutting
<a href="#">Per-Anders Widell</a>	C3E TCP	Cross-cutting
<a href="#">Chiara Delmastro</a>	DHC TCP	End-use: Buildings
<a href="#">Thibaut Abergel</a>	ECES TCP, HPT TCP	End-use: Buildings
<a href="#">Luis Munuera</a>	HTS TCP, ISGAN TCP	End-use: Electricity
<a href="#">Kevin Lane</a>	4E TCP	End-use: Electricity
<a href="#">Jeremy Sung</a>	DSM TCP	End-use: Electricity
<a href="#">Peter Levi</a>	IETS TCP	End-use: Industry
<a href="#">Marine Gorner</a>	HEV TCP	End-use: Transport
<a href="#">Jacopo Tattini</a>	AMF TCP, Combustion TCP	End-use: Transport
<a href="#">Jacob Teter</a>	AFC TCP	End-use: Transport
<a href="#">Till Bunsen</a>	AMT TCP	End-use: Transport
<a href="#">Raimund Malischek</a>	CCC TCP, EOR TCP, FBC TCP, GOTCP	Fossil fuels
<a href="#">Samantha McCulloch</a>	GHG TCP	Fossil fuels
<a href="#">Diana Louis</a>	CTP TCP, ESEFP TCP, FM TCP, NTFR TCP, PWI TCP, RFP TCP, ST TCP, SH TCP	Fusion power
<a href="#">Hideki Kamitataru</a>	Bioenergy TCP, Geothermal TCP, Hydrogen TCP, Hydropower TCP, Ocean TCP, PVPS TCP, SHC TCP, SolarPACES TCP, Wind TCP	Renewables & hydrogen
CERT, Working Parties, Experts' Groups, legal advice		
<a href="#">Timur Gül</a> <a href="#">Per-Anders Widell</a> <a href="#">Diana Louis</a>	Committee on Energy Research and Technology	CERT
<a href="#">Per-Anders Widell</a>	Working Party on Energy End-Use Technologies	EUWP
<a href="#">Diana Louis</a>	Fusion Power Co-ordinating Committee	FPCC
<a href="#">Paolo Frankl</a>	Working Party on Renewable Energy Technologies	REWP
<a href="#">Samantha McCulloch</a>	Working Party on Fossil Fuels	WPFF
<a href="#">Per-Anders Widell</a>	Experts' Group on R&D Priority Setting and Evaluation	EGRD
<a href="#">Simone Landolina</a> <a href="#">Claire Hilton</a>	Cross-agency efforts on energy innovation, including TCPs and other partnerships	TCPs
<a href="#">Diana Louis</a>	Co-ordinating information on TCPs	TCPs
<a href="#">KC Michaels</a> <a href="#">Claire Hilton</a>	Legal advice (incl. modernisation of the TCPs' legal mechanisms)	TCPs