

## ***Education and Training for Capacity Building in the Energy Sector***

Joint meeting of the

**IEA Working Party on Energy Efficiency (EEWP),**

**IEA Working Party on Energy End-Use Technologies (EUWP)**

**International Partnership for Energy Efficiency Cooperation (IPEEC)**

Wednesday, 21 September 2016, 09.00-16.00

**UNION INTERNATIONALE DES CHEMINS DE FER (UIC)**

16 rue Jean Rey, 75015 Paris

### **AGENDA**

#### **Background**

The Technology Collaboration Programmes (TCPs) of the IEA's Energy Technology Network generate a vast amount of scientific and technological results which should lead to increased innovation in the energy sector. The distribution of such results and their application and implementation by the potential users in order to get innovative technologies into the market and thus increase energy efficiency and reduce CO<sub>2</sub> output is a great challenge. Several TCPs in the end-use sector have established activities to train young people and professionals on the basis of their results with the aim of accelerating deployment of new technologies.

The IEA Secretariat, through the Energy Efficiency in Emerging Economies (E4) Programme, looks to build capacity through online courses (at one end of the spectrum), in situ joint working on data improvement and analysis (at the other), and other tools, including Training Weeks.

IPEEC as a partnership provides an equal platform for policy dialogue between developed and emerging economies. Each of the country-led Task Groups at IPEEC is a vehicle for disseminating good practices, policies and innovative approaches, as well as channelling education and capacity building.

This workshop aims to highlight the importance of education for innovation in the energy sector and show some examples of education and training activities. A possible cross-cutting action between the EUWP, the EEWP, different TCPs and – possibly – IPEEC should be discussed.

In addition, the following questions might be addressed:

- How do we measure effectiveness of capacity and training?
- How can we monitor progress and improve the training that we deliver?
- How can we scale up capacity building (through finance, different communication channels and delivery mechanisms etc.) at the level of the energy efficiency potential that we need to tap for a below 2°C trajectory?

09.00-09.15	<b>Welcome and Introduction</b> <ul style="list-style-type: none"> <li>• <b>Tom Bastin</b>, Chair, EEWP</li> <li>• <b>Gudrun Maass</b>, Chair, EUWP</li> <li>• <b>Robert Sandoli</b>, Chair of IPEEC Executive Committee</li> </ul>
09.15-09.45	<b>IEA's Energy Efficiency Division</b> <b>Brian Motherway</b> , Head of Energy Efficiency (IEA) Update on relevant Secretariat activities.
09.45-10.15	<b>Natural Resources Canada</b> <b>Laura Oleson</b> CIPEC: a framework for capacity building, training programmes and tools
10.15-11.00	<b>The DSM University</b> <b>Rob Kool</b> , Chair, TCP on Demand-Side Management (DSM TCP) The DSM University (DSM-U) is a Leonardo ENERGY project that is targeted at: <ul style="list-style-type: none"> <li>• Policymakers interested in learning about the costs and benefits of demand-side management and its impact on energy systems</li> <li>• Managers keen to learn more about organisations, governance, planning, programme structuring and implementation methods.</li> <li>• Programme implementers wanting “tricks of the trade”.</li> </ul> <p>The DSM-U is built on 20 years of experience of the DSM TCP. It provides access to the knowledge developed in the DSM TCP in a structured way. In addition, DSM-U aims to be a community of practice on DSM themes.</p> <p>At the heart of the DSM-U are the monthly webinars. These are developed through their own material and with invited material from external specialists in research and business.</p>
11.00-11.30	<i>Coffee break</i>
11.30-12.30	<b>The importance of education for innovation in the energy sector</b> <b>Torsten Fransson</b> , Education Director, KIC InnoEnergy KIC InnoEnergy is an EU initiative. It supports and invests in innovation at every stage of the journey – from classroom to customers. It builds connections across Europe, bringing together inventors and industry, entrepreneurs and markets, graduates and employers, researchers and businesses. It works in three essential

	<p>areas of the innovation mix:</p> <ul style="list-style-type: none"> <li>• Education to help create an informed and ambitious workforce that understands what sustainability demands and industry needs – for the future of the industry.</li> <li>• Innovation Projects to bring together ideas, inventors and industry in collaboration to enable commercially viable products and services that deliver real results.</li> </ul> <p>Business Creation Services to help entrepreneurs and start-ups who are creating sustainable businesses to grow rapidly to contribute to Europe's energy ecosystem.</p>
12.30-14.00	<i>Lunch Break</i>
14.00-14.30	<p><b>Summer Schools and the development of a MOOC (Massive Open On-line Course)</b></p> <p><b>Hans Bloem</b> , from the TCP on Buildings and Communities (EBC TCP).</p> <p>The EBC TCP is one of the oldest TCPs under the IEA umbrella. The function of the EBC TCP is to undertake research and provide an international focus for energy efficiency in buildings.</p>
14.30-15.00	<p><b>The ISGAN Academy</b></p> <p><b>Michele de Nigris</b>, Chair, TCP on Smart Grids (ISGAN TCP)</p> <p>The ISGAN TCP is meant to complement, leverage, and bolster existing or nascent international efforts on smart grid through high-level government-to-government engagement. It runs an education programme together with Leonardo ENERGY, an EU activity.</p>
15.00-15.45	<p><b>Discussion on further steps</b></p> <p>This session is intended to discuss how a cross-cutting activity for a better distribution and application of results generated by TCPs can be organised e.g. via a common education platform.</p>
15.45-16.00	<p><b>Wrap-up</b></p> <ul style="list-style-type: none"> <li>• <b>Tom Bastin</b>, EEWP</li> <li>• <b>Gudrun Maass</b>, EUWP</li> <li>• <b>Robert Sandoli</b>, IPEEC</li> </ul>