

RENEWABLE ENERGIES for MANUFACTURING INDUSTRIES

Workshop - 11-12 May – IEA Headquarters

9, rue de la Fédération 75015 Paris – Room 1

Agenda

Each topical session will discuss the following aspects of each renewable energy source:

- Existing and possible future industrial applications
- Technical and economical potentials of these applications
- Existing technical and market barriers to further deployment and supportive mechanisms

Day 1	
9.30	Session 1: Setting the scene. Topics: Welcome and workshop introduction; Project's scope, objectives, timeline and engagement possibilities; IRENA Remap 2030 study; The Chinese context. Speakers: Cédric Philibert (IEA, RED): <i>Introducing REMI</i> ; Araceli Fernandez (IEA, ETP): <i>Renewable energy use in industry within the 2DS</i> ; Deger Saygin (IRENA): <i>Remap 2030: Renewables for manufacturing industries</i> ; Wang Yanija (Tsinghua University): <i>Renewables for manufacturing industries in China</i> .
11.00	Coffee break
11.30	Session 2: Solar thermal Topics: Further solar thermal deployment potentials, successful business models. Speakers: Christoph Brunner (AEE/SHC Task 49): <i>Solar Heat for Industrial processes</i> ; Manuela Ojan (Italcementi): <i>Solar Power and new concrete applications: a pilot plant in Morocco</i> ; Kevin Mozas (Sunti): <i>A business model to boost solar heat into industrial processes</i> .
13:00	Lunch
14:30	Session 3: Bioenergy Topics: Fuel switching options to sustain core processes and captive utilities, and biomass-based feedstock process routes: potential and interplay with other bioenergy uses. Speakers: Adam Brown (IEA, RED): <i>Bioenergy</i> ; Thore Berntsson (Chalmers University of Technology): <i>Biomass in Industry – How, When and Why?</i> ; Marc Roquette (Roquette Group): presentation; Kees Kwant (Economic Affairs, NL/Bioenergy IA): <i>A Biorefinery approach</i>

16.00	Tea break
16:00	<p>Session 4: Renewable electricity use</p> <p>Topics: Distributed hydropower, wind and PV vs. grid procurement. Processes for further electrification of industry (Heat pumps, mechanical vapour recompression, Foucault currents, plasma torches, micro-waves, lasers, electric arcs...)</p> <p>Speakers: Christophe Crocombette (Electricité de France): <i>A path to the electrification of the world industries</i>; Hans ten Berge (Eurelectric): oral testimony; Jean-Jacques Marchais (Schneider Electric): <i>Integrating renewable electrical energy in industry</i> Bill Gould (SolarReserve, USA): <i>Solar applications for industries</i></p>
17:30	End of day 1
Day 2	
<u>9:15</u>	<p>Welcome and introduction to day 2</p> <p>Speaker: Cédric Philibert: <i>Summary of Day One.</i></p>
9:30	<p>Session 5: How industry can help integrate variable renewables</p> <p>Topics: Distributed vs. grid procurement; process curtailment options; flexibility on different time-scales.</p> <p>Speakers: Nicola Riga (Confederation of European Paper Industries): <i>Thinking outside the box: New perspectives on industrial demand side flexibility</i>; Chi Yongning (State Grid Corporation of China): <i>Challenges and industries electrification Impacts on large Renewable Integration in China</i>; Alban De la Selle (Energy Pool) : <i>Energy Storage.</i> Thomas Jezdinsky (European Copper Institute) : <i>IndustRE – Project Overview.</i></p>
10:30	Coffee break
11:00	<p>Wrap-up and next steps</p> <p>Roundtable</p> <p>Chair: Paolo Frankl, Head of Renewable Energy Division</p>
12:30	End of workshop

