

SUNERGY/MI/IEA WORKSHOP ON "DIRECT USE OF SUNLIGHT TO FUELS"



14 February 2025



IEA Headquarters. Paris, France



Funded by the European Union,
Grant Agreement No. 101058481

Direct use of sunlight to produce hydrogen and carbon-based molecules

Joint workshop: IEA Hydrogen TCP, SUNER-C & Mission Innovation Community on “Sunlight to X”

14 February 2025 📍 IEA, 9 Rue de la Fédération, 75015 Paris, France

08:30	Welcome Coffee & Registrations	
09:00	Introduction & objectives of the workshop, presented by the organizers. <i>H₂ TCP (Paul Lucchese), Mission Innovation (Philippe Schild) and SUNER-C (Frédéric Chandezon)</i>	
09:20	Solar Fuels - Framework & ongoing efforts	1. Perspectives on the purpose and role of solar fuels in the energy system. <i>Bill Tumas (NREL/Mission Innovation),</i>
09:40		2. The SUNER-C agenda and vision for solar fuels and chemicals for a climate-neutral future. <i>Ann Magnuson (Uppsala Univ./SUNER-C)</i>
10:00		3. The SUNER-C roadmap, state-of-the-art of solar fuels technologies. <i>Carina Faber (EIC/SUNER-C)</i>
10:20	Net-zero scenario and role of Sunlight to X (<i>Amalia Pizzaro/José Bermudez IEA Paris</i>)	
10:40	Coffee break	
11:00	Introductory panel discussion with IEA analysts and Sunlight to X experts: the role of innovation (<i>Paul Lucchese moderator</i>)	
11:30	Panel discussion	Topic 1: Applications beyond fuels; Business models and TEA studies. Competition or collaboration between production for H ₂ market, or direct production for C-based molecules market? (<i>Muriel Matheron and Joachim John as moderators</i>)
12:30 – 13:30	Lunch	
13:30	Panel discussion	Topic 2: Accelerate R&I, impact and benefits of SFCs; role of RD&I and international collaboration (<i>Philippe Schild and Alberto Giacona as moderators</i>)
14:30		Topic 3: Integration of SFCs in energy/industry systems. Cross cutting issues. (Environmental and socio-economic aspects, role of CCU, (de)centralization.) (<i>Ann Magnuson and Teo Martin as moderators</i>)
15:30	Outcome of the workshop: Deliverables, How to collaborate between TCP network, IEA Secretariat, SUNERGY and MI? Wrap-up and conclusions. (<i>Frédéric Chandezon moderator</i>)	
16:00	Coffee and informal discussion	