



Invitation to the Webinar **Solar-to-X: From sunlight to molecules**

> 24/09/2026, Thursday > 11.00 – 12.00 am > Online

SPEAKER:

João Pereira Cardoso, M.Sc. /
Laboratório Nacional de Energia e
Geologia, I.P. (LNEG)



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**Solar Polygeneration Collector for
combined heat, power, hydrogen
fuel production and wastewater
treatment (SPECTRUM)**

SPEAKER:

DIⁱⁿ Drⁱⁿ. Bettina Muster-Slawitsch /
AEE – Institute for Sustainable
Technologies (AEE INTEC)



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**Scaled Photoreactors for
direct solar energy utilization
in solar fuels**

SPEAKER:

Dr. Gregory F. Metha /
Adelaide University



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**Sparc Hydrogen: Advancing
Solar-Driven Hydrogen
for Sustainable Industry**

MODERATION:

DIⁱⁿ Sarah Meitz /
AEE – Institute for Sustainable
Technologies (AEE INTEC)



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nachhaltige technologien Webinarreihe

Discover how solar energy could deliver far more than electricity and heat in the future.

How can solar energy be used not only to generate electricity and heat, but also to produce green chemicals? This is the key question addressed in our webinar “**Solar-to-X: From sunlight to molecules**”.

The webinar will showcase how solar energy can be used far beyond conventional electricity and heat generation. You will learn how different parts of the solar spectrum can be combined in one system to simultaneously produce heat, electricity and hydrogen while treating industrial wastewater, what is required to scale photochemical reactors from laboratory conditions to operation under real sunlight, and how concentrated solar radiation can be used for direct photocatalytic water splitting. The presentations will also address key challenges such as reactor and optical design, efficiency assessment, catalyst development and the transition from research to pilot-scale and industrial applications.

Together with international experts, we will look at how far Solar-to-X technologies have already progressed, where the main bottlenecks still lie, and what is needed to move from promising concepts to scalable demonstrations.

Join the webinar to gain insights into current developments, hear directly from researchers and technology developers, and exchange views on the future potential of Solar-to-X.

The webinar will be held in English. Participation is free of charge.

Organizer:

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