

# EFCE SpotLight Talks

Section on Energy

24 November  
2022

14:30 • 16:30

CET

## SUSTAINABILITY and SECURITY of ENERGY and ASSOCIATED CRITICAL SUPPLIES in CHALLENGING TIMES



*Energy, along with other critical resources, is a cornerstone for our economy and daily life. In recent times, the sustainable and secure supply of energy in Europe and elsewhere has been facing significant challenges, following the events such as the global pandemic and regional conflicts, which have arisen against the pressing backdrop of climate change. There seems to be a greater need than ever for us to try to understand and assess the challenges and risks and to eventually develop effective mitigating strategies. The purpose of this session is to share ideas and research and promote discussions within our community to address the dual challenges of sustainability and security, either of energy supply alone or in connection with the other critical supplies such as food and water through the "nexus" relationships.*

### PROGRAM

- 14:30      **Welcome and introduction**  
Fabrizio Bezzo – Past co-Chair of the Section on Energy  
Petr Kluson, EFCE Scientific Vice-President
- 14:40      **Sustainability and security: measuring risk in fuel supply chains**  
Colin Axon, Institute of Energy Futures, Brunel University London - UK
- 15:10      **Multiscale approach for resource exploitation towards energy security**  
Mariano Martin, Department of Chemical Engineering, University of Salamanca - Spain
- 15:40      **The food-energy-land nexus of renewable energy powered indoor farming for localised food supply**  
Aidong Yang, Department of Engineering Science, University of Oxford – UK
- 16:10      **Conclusion**  
Fabrizio Bezzo, University of Padova – Italy

**Registration**

*free of charge but mandatory*

Contact: [martine.poux@toulouse-inp.fr](mailto:martine.poux@toulouse-inp.fr)  
[fabrizio.bezzo@unipd.it](mailto:fabrizio.bezzo@unipd.it)