

ÖAW

AUSTRIAN
ACADEMY OF
SCIENCES

TUESDAY, MARCH 7, 2023
2:00 PM – 6:00 PM
THEATERSAAL & ONLINE
AUSTRIAN ACADEMY OF SCIENCES
SONNENFELSGASSE 19
1010 VIENNA



SYMPOSIUM OF THE WORKING GROUP "ENERGY TRANSITION", COMMISSION FOR INTER-DISCIPLINARY ECOLOGICAL STUDIES (KIOES) AND CLIMATE AND AIR QUALITY COMMISSION (KKL)

ENERGY TRANSITION FOR A SUSTAINABLE SOCIETY

PROGRAM

2:00–2:15 WELCOME

Wolfgang Baumjohann | President, Division of Mathematics and Natural Sciences,
Austrian Academy of Sciences (OeAW) (*virtual*)

Verena Winiwarter | Chair, Commission for Interdisciplinary Ecological Studies (KIOES)

Wilfried Winiwarter | Climate and Air Quality Commission (KKL)

Moderation: Viktor J. Bruckman | Austrian Academy of Sciences

2:15–3:45 I. CONTEXT AND RENEWABLE ENERGY LIMITATIONS

Simone Gingrich | University of Natural Resources and Life Sciences & KIOES, Austria
Historical energy transitions and present challenges

Robert Jandl | Austrian Research Centre for Forests & KKL, Austria
Domestic and European Bioenergy availability

Lucy Pao | University of Colorado Boulder, United States (*virtual presentation*)
Renewable Energy: potentials and limitations

3:45–4:15 COFFEE BREAK



4:15–6:00 II. MAIN CHALLENGES, POTENTIAL PATHWAYS AND CONCLUSION

Georg Brasseur | Technical University of Graz & KIOES, Austria
The missing link: long- and short-term energy storage for energy transition

Keywan Riahi | International Institute for Applied Systems Analysis & KKL, Austria
Towards an energy system with net zero greenhouse gas emissions

Karl Steininger | University of Graz & KKL, Austria
Long distance energy trade: benefits and trade-offs

Wilfried Winiwarter | International Institute for Applied Systems Analysis & KKL, Austria
Conclusions of the WG Energy Transition

6:00 RECEPTION

Providing sufficient energy while minimizing climate impacts has become an essential challenge for our society. At the Austrian Academy of Sciences, a working group has jointly formed between the Commission for Interdisciplinary Ecological Studies (KIOES) and the Climate and Air Quality Commission (KKL) to explore the situation in Austria and Europe regarding pathways of a sustainable energy transition. The working group has been inviting top experts to provide their opinions and views on multiple different aspects – from energy provision, transport, respectively transmission, and storage to energy services, decent living and social innovation related to energy.

This event presents some of the key topics and challenges discussed within the framework of the energy transition working group.

ORGANIZATION

Working group Energy Transition (WGET)
Commission for Interdisciplinary Ecological Studies (KIOES)
Climate and Air Quality Commission (KKL)
Austrian Academy of Sciences (OeAW)

CONTACT

Working group Energy Transition (WGET)
Dr. Viktor J. Bruckman
Austrian Academy of Sciences (OeAW)
Dr. Ignaz Seipel-Platz 2, 1010 Vienna
T: +43 1 51581-3200
viktor.bruckman@oeaw.ac.at

REGISTRATION

Online Registration
<https://www.oeaw.ac.at/kioes/aktivitaeten/detail/energy-transition>

Cover image: Wind Power, Power Line and Sun Power by Andy Beecroft, Wikimedia Commons

Please note that video recordings and/or photographs may be taken throughout the event. These will be used by the organizing institution in publications, on-line and in social media. Please contact the event organizer if you have any concerns or if you wish to be exempted from this activity.