



The 4th IERE Webinar

# Towards a Carbon Neutral Energy Future

November 18, 2021  
11:00 AM - 1:00 PM (UTC)

Open to the Public  
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➤ Pick-up Papers Carbon Neutrality



## Towards a Carbon Neutral Energy Future

The carbon neutral energy future is our ultimate goal, but our transition still remains challenging. Most of the countries across the world are stepping up their efforts to tackle it. In this webinar, four IERE members from each region (France, USA, Australia and Japan) will present the path to achieving carbon neutrality in their respective countries/regions from various aspects of technology, economics, policy, strategy, etc.

### Open to the Public (This Time)

This is our fourth web event for all the IERE members. In this time, the webinar is open to all applicants from all over the world.

In this webinar, lectures on "towards a carbon neutrality" will be presented by Dr. Jan Mertens (ENGIE), Dr. Timothy Allison (SwRI), Dr. Daniel Roberts (CSIRO) and Dr. Koji Nagano (CRIEPI).

### FREE of Charge

Not only IERE members but anyone interested in the lecture can join for FREE of charge. Your participation is very welcome. Please join us and discover new perspectives.

### Webex Registration for Both Onsite-Webinar and VOD

Webex Meetings system will be used. This webinar will be recorded and VIDEO ON DEMAND will be available after the webinar.

Registration is required whether you are attending the webinar or watching the video later.

[Open to the Public Register Now](#)

## Moderator

**Dr. Jeanne Ng**  
IERE Chair  
Hong Kong SAR

## Lecturers

**Dr. Jan Mertens**  
Chief Science Officer, ENGIE  
France

Jan Mertens is ENGIE's Chief Scientific Officer (CSO) co-building ENGIE's long term vision on technologies, identifying key international research players on selected emerging technologies and initiating partnerships. Jan is also visiting Professor at the University of Ghent in the domain of sustainable electricity generation.

>> ENGIE

**Dr. Timothy Allison**  
Director, Machinery Department, Mechanical Engineering Division, SwRI  
USA

Dr. Allison leads the Machinery Department at Southwest Research Institute, which performs applied research in machinery and power systems for the oil and gas, propulsion, and electric power, and other machinery industries.

His research interests include advanced energy systems, thermal-mechanical-chemical energy storage, turbomachinery design and testing, oxy-combustion, instrumentation and control, blade and impeller dynamics, valve dynamics, finite element analysis, system identification, condition monitoring, and advanced signal processing methods.

>> SwRI

**Dr. Daniel Roberts**  
Research Program Director, CSIRO  
Australia

Daniel is the Research Director for CSIRO's Energy Technologies program. This is a portfolio of collaborative, industry-focused RD&D across a range of low-emissions energy technologies including hydrogen, solar, bioenergy, CO2 capture and use, energy storage, and alternative fuels.

Daniel has held a range of project leadership and research management roles in CSIRO with a focus on hydrogen, bioenergy, and low-emissions energy systems, and has over 25 years research experience in gasification and its applications, having worked on research projects domestically and internationally.

>> CSIRO

**Dr. Koji Nagano**  
Associate Vice President, CRIEPI  
Japan

Koji Nagano is the Associate Vice President for CRIEPI's Planning Group. His research interests include Energy Policy, Nuclear Fuel Cycle Technology Analysis, Energy Security.

>> CRIEPI

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## Program

### Program

November 18, 2021 11:00AM-1:00PM (UTC),

### Opening

11:00-11:05 (UTC)	Opening, About IERE webinar	Dr. Takao Watanabe IERE Secretary General
11:05-11:10 (UTC)	Introduction	Dr. Jeanne Ng IERE Chair, Moderator

### Lectures

11:10-11:30 (UTC)	Loving the Alien: CO2 deserves our affection but save a seat for some other surprising climate change allies	Dr. Jan Mertens Chief Science Officer, ENGIE, France
11:30-11:50 (UTC)	Decreasing the Cost and Risk of Decarbonization Pathways through Technology Development	Dr. Timothy Allison Director, Machinery Department, Mechanical Engineering Division, SwRI, USA
11:50-12:00 (UTC)	Questions & Answers	
12:00-12:20 (UTC)	R&D supporting Australia's energy transition	Dr. Daniel Roberts Research Program Director, CSIRO, Australia
12:20-12:40 (UTC)	The Challenge to Carbon Neutrality in 2050 -Issues for Japan and CRIEPI's Undertaking-	Dr. Koji Nagano Associate Vice President, Planning Group, CRIEPI, Japan
12:40-12:55 (UTC)	Questions & Answers	

### Closing

12:55-13:00 (UTC)	Closing	Dr. Takao Watanabe IERE Secretary General
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## Time Zone

The webinar will take place at 11:00 AM in UTC (GMT). Please make the proper time zone conversion to match the start time in your area.

UTC -8:00	3:00-5:00 AM	Vancouver
UTC -6:00	5:00-7:00 AM	Mexico City, San Antonio
UTC -5:00	6:00-8:00 AM	Montreal
UTC +1:00	12:00-2:00 PM	Amsterdam, Brussel, Essen, Johannesburg, Paris
UTC +8:00	7:00-9:00 PM	Beijing, Singapore
UTC +9:00	8:00-10:00 PM	Seoul, Tokyo
UTC +10:00	9:00-11:00 PM	Brisbane

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## Register

### Registration

- **FREE of Charge**  
This webinar would open to all applicants for FREE of Charge, not only IERE members.
  - **Webex Registration for both Onsite-Webinar and VOD**  
To join the webinar, you need to register. Please click the registration button. You will be automatically transferred to the Webex Meetings registration site, so please fill in the necessary information and register there.
- Then, the Central Office sends a registration confirmation email, please join the webinar by the link on that email. If you do not see the email in your inbox, please check your junk mail folder.
- Please join the webinar 5-10 minutes earlier to avoid the last minute problems.

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## MUST-READ

### TIPs for Attendees

#### Be Prepared before Webinar Starts

Review our webinar tips for attendees and avoid technical issues by testing Webex Meetings on your device prior to the day of the webinar.

#### Testing Webex Meetings

Join a Test Meeting prior to the day of the webinar:  
[Webex - Join a Test Meeting](#)

#### Finding Chat Box

The Chat Box can be opened through your Webex menu. This is used for submitting your content-related questions anytime. Please specify which presenter the question is for. During the Q&A sessions, the moderator will select the posted questions and the presenter will answer them. In addition, technical questions about webinar connections such as images and sounds can be put in the Chat Box. The staff of the Central Office will support you. If you have any questions before starting the webinar, please email to "office(at)iere.jp". [Please substitute (at) with @]

#### Webinar Recordings

The webinar is recorded on the Webex system and is to be on demand. Webinar registrants will be able to view the video footage after the webinar ends.

#### Request for Feedback Survey

The Central Office would like to hear your feedback so we can keep improving our logistics and content. Please fill this quick survey and let us know your thoughts (your answers will be anonymous).

[Feedback Survey](#)



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