

# CELCT 2026

## Conference Program

14:20-14:35	<p><b>Muhammad Zahid Iqbal, Teesside University, United Kingdom</b>  <i>Speech Title: Digital Twin Monitoring for Early Generator Fault Detection in Utility-Scale Wind Turbines</i></p>
14:35-14:50	<p><b>Xilong Wang, Beijing Institute of Technology, China</b>  <i>Speech Title: Intrinsically safe, ultra-thin solid polymer electrolyte for high-energy density lithium metal batteries</i></p>
14:50-15:05	<p><b>Sri Wahyu Ningsih, Universitas Gadjah Mada, Indonesia</b>  <i>Speech Title: Community-Based Energy Resilience Assessment of Micro-Hydro Power Plant: A Socio-Technical Approach</i></p>
15:05-15:20 (Online)	<p><b>Chang Lu, Tsinghua University, China</b>  <i>Speech Title: Co-Planning of Distributed Photovoltaic and Energy Storage Systems in Active Distribution Networks</i></p>
15:20-15:35	<p><b>Mousa Zerai, University of Edinburgh, United Kingdom</b>  <i>Speech Title: Virtual Heat Plants as Flexibility Providers: Coordinating Hybrid Heating Systems via Monte Carlo Tree Search</i></p>
15:35-15:50	<p><b>Han-Wei Chang, National United University, Taiwan, China</b>  <i>Speech Title: Interface engineering of Si-C@flake graphite for symmetric solid-state supercapacitors</i></p>
15:50-16:00	Oral Presentation Certificate
16:00-16:10	Closing Ceremony
16:10-16:30	Academic Visit
May 2nd-3rd, 2026	
Departure	

## Recommended Conferences

 <b>GIM</b>	<p><b>2026 International Conference on Green Intelligent Manufacturing (GIM 2026)</b></p> <p>July 14-16, 2026 Birmingham, United Kingdom <a href="http://www.icgim.com">www.icgim.com</a></p>
 <b>GMMT</b>	<p><b>2nd International Conference on Green Materials and Manufacturing Technology (GMMT 2026)</b></p> <p>October 9-11 Cambridge, United Kingdom <a href="http://www.icgmmt.com">www.icgmmt.com</a></p>

## Contact Us



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# CELCT 2026

**2026 3<sup>rd</sup> International Conference on Clean Energy and Low Carbon Technologies**

## CONFERENCE BROCHURE

**Sponsor:** The University of Tokyo  
**Co-organizers:** Universiti Teknologi Malaysia, UTM; University of Salamanca; Hainan Institute of Zhejiang University; Sanya Global Energy Research Institute; Zhengzhou University of Light Industry  
**Technical Co-sponsors:** IEEE; IEEE Power and Energy Society (IEEE PES)  
**Supporter:** Laboratory of Low Carbon Energy, Tsinghua University



### About CELCT 2026

The 2026 3rd International Conference on Clean Energy and Low Carbon Technologies (CELCT 2026) will be held on May 1, 2026, in Japan, Tokyo. CELCT 2026 is to bring together innovative academics and industrial experts in the field of clean energy and low-carbon technologies in a common forum. The primary goal of the conference is to promote research and developmental activities in clean energy and low-carbon technologies, and another goal is to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working all around the world. The conference will be held every year to provide an enabling platform for people to share views and experiences in the clean energy, low carbon technologies and related areas. It will meet and exceed your expectations. Welcome to CELCT 2026.

### Organization

**Sponsor:** The University of Tokyo

**Co-organizers:** Universiti Teknologi Malaysia, UTM | University of Salamanca  
Sanya Global Energy Research Institute |  
Zhengzhou University of Light Industry  
Hainan Institute of Zhejiang University

**Technical Co-sponsors:** IEEE; IEEE Power and Energy Society (IEEE PES)

**Supporter:** Laboratory of Low Carbon Energy, Tsinghua University



### Venue

**Conference Venue & Registration:** Conference Hall, 2 Floor, The University of Tokyo Sanjo Hall (東京大学山上会館)

**Location:** 〒113-8654 7-3-1 Hongo, Bunkyo-ku, Tokyo (The University of Tokyo Hongo Campus)

**Nearest station:** About 15 minutes on foot from Tokyo Metro Marunouchi Line and Toei Subway Oedo Line "Hongo Sanhome" Station

### Keynote Speakers



#### Prof. Fushuan Wen, Zhejiang University, China

##### Biography:

Fushuan Wen is a Fellow of IEEE and a Full Professor at Zhejiang University and the Hainan Institute of Zhejiang University. He received his B.E. and M.E. degrees from Tianjin University in 1985 and 1988, and his Ph.D. from Zhejiang University in 1991, all in electrical engineering. He joined Zhejiang University in 1991 and has been a professor since 1997. He also serves as a visiting principal research scientist at the Shenzhen Institute of Artificial Intelligence and Robotics for Society. His research interests include power industry restructuring, power system alarm processing, fault diagnosis and restoration, smart grids, electric vehicles, and AI applications in power and integrated energy systems. He has been listed among Elsevier's "Most Cited Chinese Researchers" for 11 consecutive years since 2015 and serves in editorial roles for several international journals.



#### Prof. Jumpei Baba, The University of Tokyo, Japan

##### Biography:

Jumpei Baba (Member, IEEE) received the Ph.D degree in electrical engineering from the University of Tokyo, Tokyo, Japan, in 2001. He joined the Tokyo University of Science, Tokyo, as an Assistant in 2001, and joined the University of Tokyo as an Assistant in 2003. He was appointed as a Lecturer in 2005, an Associate Professor in 2006, and has been a Professor since 2021. He is also a Member of IEEEJ, IEIEJ and CSSJ. His main research interests include power electronics, power systems, energy storage systems, and renewable energy sources.



#### Prof. Takao Tsuji, Yokohama National University, Japan

##### Biography:

Professor Tsuji is a highly respected expert in power system engineering, and now as a Professor in the Faculty of Engineering. His research focuses on electricity power systems. He is also an expert in the field of electricity markets and serves as an important member for several expert committees under the Japanese government department, the Ministry of Economy, Trade and Industry. He combines deep theoretical insight with practical solutions to overcome the challenges of renewable energy integration and future smart grids in Japanese electricity power system.

### Conference Program

May 1st, 2026

**On-Site Venue:** Conference Hall, 2 Floor, The University of Tokyo Sanjo Hall

**Virtual Platform:** ZOOM ID: 850 8924 2651 Password: 260501

9:30-10:00

Registration

#### Opening Ceremony

**Moderator:** Asst. Prof. Jie Bo, The University of Tokyo, Japan

10:00-10:10

Representative from the University of Tokyo

#### Keynote Speech Session

10:10-11:00

**Prof. Jumpei Baba, The University of Tokyo, Japan**  
*Speech Title: TBD*

11:00-11:50

**Prof. Fushuan Wen, Zhejiang University, China**  
*Speech Title: Modern artificial intelligence applications in power/integrated energy systems and electricity/carbon emission markets*

11:50-12:00

Group Photo

12:00-13:00

Lunch & Break

#### Keynote Speech Session

13:00-13:50

**Prof. Takao Tsuji, Yokohama National University, Japan**  
*Speech Title: An Outlook of Supply and Demand Balance in Japan as of 2040*

#### Oral Presentation Session

13:50-14:05

**Alper Kerem, NAR System Technology & Kahramanmaraş Sutcu Imam University, Turkiye**  
*Speech Title: A Plugin-Based, Flexible Architectural Framework for Energy Distribution Systems Operating in Dynamic Regulatory Environments: THOR*

14:05-14:20

**Yi Jao Chen, National University of Kaohsiung, Taiwan, China**  
*Speech Title: AI-Driven BIM Framework for Low-Carbon Building Design*