

GXI-ZES

14th-16th January, 2025

International Symposium on Green Transformation Initiative and
Innovative Zero-Carbon Energy Systems

Institute of Science Tokyo, Japan

Closing Remarks

Hiroshi Sagara, Chair

Laboratory for Zero-Carbon Energy
Institute of Integrated Research,
Institute of Science Tokyo



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- **GXI-ZES held on 14 – 16 January, 2025 at Science Tokyo aims at discussing the latest research activities relevant to the development of green transformation technology and innovative zero-carbon energy systems, which shall be the technologies to supply energy for a carbon-neutral society, including zero-carbon energy, energy carrier, climate change mitigation, carbon neutral and innovative nuclear energy technologies within a broad perspective.**
- **The goal is to visualize and share a new stage of the green transformation technologies and zero-carbon energy system technologies for a carbon-neutral society.**
- **The special collaboration sessions with MIT, EPRI and DLR was organized.**

Participants

● Total: 203

- Plenary Lecturers/Guests: 18
- Regular: 60
- GXI Member: 26
- Student Presenter: 64
- Student Observer: 35

● Countries/Regions

- Japan: 185
- USA: 5
- ROK: 5
- Indonesia: 3
- Germany: 2
- Taiwan: 1
- Poland: 1

Opening Speech, Plenary Lectures

● 14th January

■ Opening Speech

- Prof. Yukitaka Kato, Science Tokyo
- Prof. Naoto Ohtake, Science Tokyo
- Mr. Takatsugu Ryuzaki, METI
- Mr. Koji Yanagisawa, MEXT

■ MIT Session on Decarbonization

- Prof. William H. Green, MIT
- Prof. Jacopo Buongiorno, MIT
- Dr. Masami Takenaka, Asahi Kasei Corporation
- Dr. Koichi Izumiya, Kanadevia Corporation

Plenary Lectures

● 15th January

- EPRI Session on Energy Carrier
 - Mr. Jeffery Preece, EPRI
 - Mr. Neil Kern, EPRI
 - Prof. Hiroshi Asano, CRIEPI
 - Prof. Takeo Yamaguchi, Science Tokyo

Plenary Lectures

● 16th January

- DLR Session on Energy Storage
 - Dr. Thomas Bauer, DLR
 - Dr. Inga Bürger, DLR
 - Prof. Takahiro Nomura, Hokkaido Univ.
 - Prof. Hajime Arai, Science Tokyo
- GXI VISION 2050 Session
 - Prof. Yukitaka Kato, Science Tokyo
 - Dr. Keigo Akimoto, RITE
 - Prof. Takao Nakagaki, Waseda Univ.
 - Prof. Kenji Takeshita, Science Tokyo

Presentations

● Total: 112

■ Plenary: 16, Oral: 47, Poster: 49

● Topics (in oral/poster presentations)

1. Green Transformation and Zero-Carbon Energy System Technologies: 24
2. Innovative nuclear energy technologies: 18
3. Energy storage and transformation technologies: 19
4. Energy carriers: 3
5. Material recycling technologies for energy systems: 10
6. Innovative nuclear applications: 16
7. Energy Policy and Economics: 6

Poster Session

- **Short presentations and the session on 15th Jan.**
- **Presentation Awards to the selected presenters**

Proceedings of Abstracts

- **Proceedings of abstracts of GXI-ZES is available by online for all participants**

<https://gxi-zes.org/exabst/index.html>

- **Access ID and password are sent by Email to all participants**

Summary

- We had excellent lectures, presentations, and a lot of discussions about the latest research activities relevant to the development of green transformation technology and innovative zero-carbon energy systems that enabled visualization and sharing of a new stage of the green transformation technologies and zero-carbon energy system technologies for a carbon-neutral society
- It fostered networking between industry, academia and government
- The chair believes the aim of the symposium was achieved successfully

Special Thanks

- The chair deeply appreciate
 - Organizing Committee
 - ZC, Science Tokyo
 - Science Tokyo GXI
 - Steering Committee
 - Technical Program Committee
 - Plenary Lecturers, MIT, EPRI, DLR and all
 - All Presenters in Oral and Poster sessions
 - Supporters, 20 Domestic/International Organizations
 - All Staff Members including Faculties, Staffs and Students

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Thank you!
See you next time!



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