Webinar on Rechargeable Battery Development and Evaluation for Energy Storage

Online (UTC: 11:00 –13:00)

April 2, 2025

UTC+2:00	13:00–15:00	Amsterdam, Brussels, Essen, Paris,
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UTC+9:00	20:00–22:00	Seoul, Tokyo
UTC+10:00	21:00–23:00	Brisbane
UTC+19:00	6:00–8:00	San Antonio

IERE

SwRI Southwest Research Institute

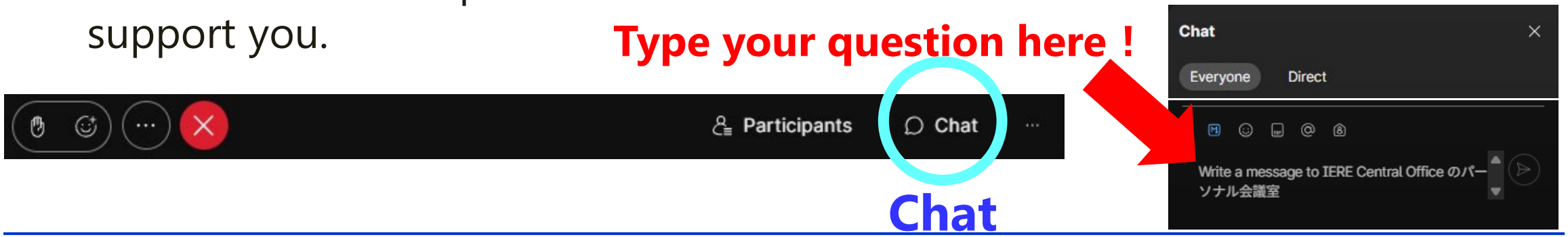
TIPs for Attendees -1

- **Finding the 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 and send your question **to Everyone**. During the Q&A time, 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.



TIPs for Attendees -2

- **Presentation Materials**

  Presentation materials are available at the following URL.

  https://www.iere.jp/events/webinar/2025-BESS/index.

Webinar on Rechargeable Battery Development and Evaluation for Energy Storage

IERE conducted R&D on lithium-ion battery modeling of battery degradation and safety from operations assuming power storage. The results were presented by Leader Southwest Research Institute (SwRI) at San Antonio WS. (https://www.iere.jp/events/workshop/2024-sanantonio/day2.html) With the increasing introduction of intermittent renewable energy, the need for power storage is becoming increasingly important. Various types of batteries and energy storage systems have been developed and are being introduced for load leveling, frequency regulation, and other purposes. IERE members who are involved in various [illegible] developments [illegible] roduce the features and application of the batteries developed, as well as the performance evaluatio[illegible] lithium-ion batteries. We believe that these lectures will help not only those who are considering [illegible] ase systems in the future, but also those who are already in the demonstration phase to operate the[illegible] iently and economically with a longer operating life.

▸ Updated: March. 27, 2025

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TIPs for Attendees

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Program (Tentative)

Moderator: Jayant SARLASHKAR, SwRI

(UTC)	Title	Presenter	Organization
11:00	Opening Address	TAKEI Katsuhito Secretary General	IERE
11:05	Estimating and Managing Degradation of Li-Ion BESS Under Value-Stacked Duty Cycles in Electric Grid	Jayant SARLASHKAR	SwRI US
11:30	Battery Energy Storage Systems for Power Grids(SCiB™)	TAKAHASHI Kazunari Battery Engineer	Toshiba Energy Systems & Solutions Corporation Japan
11:55	Stabilizing Renewable Energy Supply with Sodium-Sulfur Batteries: A Path to Carbon Neutrality	KITOH Kenshin General Manager, Department Energy Storage Division	NGK INSULATORS, LTD. Japan
12:20	Advancements & Deployment of Flow Battery System Technology	SHIBATA Toshikazu Deputy General Manager	SEI（Sumitomo Electric） Japan
12:45	Report on Survey Results	TAKEI Katsuhito Secretary General	IERE
12:50	Closing	Jayant SARLASHKAR	SwRI US

Introduction

- IERE conducted R&D on lithium-ion battery modeling of battery degradation and safety from operations assuming power storage. The results were presented by Leader SwRI at San Antonio WS. （https://www.iere.jp/events/workshop/2024-sanantonio/day2.html）
- With the increasing introduction of intermittent renewable energy, the need for power storage is becoming increasingly important. Various types of batteries and energy storage systems have been developed and are being introduced for load leveling, frequency regulation, and other purposes.

- IERE members who are involved in various battery developments will introduce the features and application of the batteries developed, as well as the performance evaluation of mainly lithium-ion batteries.
- We believe that these lectures will help not only those who are considering installing these systems in the future, but also those who are already in the demonstration phase to operate them more efficiently and economically with a longer operating life.