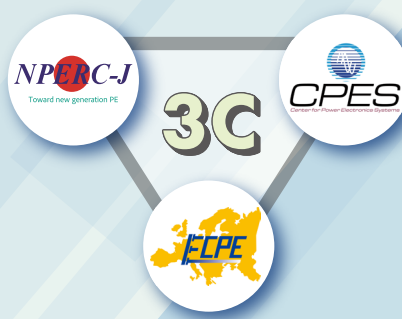


3C-PEEC is a collaborative framework where power electronics research consortia from Japan, the United States, and Europe exchange information with each other, aiming to share their respective power electronics roadmaps and pursue research collaboration.

NPERC-J : New-Generation Power Electronics & System Research Consortium Japan (JP)  
CPES : Center for Power Electronics Systems (US)  
ECPE : European Center for Power Electronics (EU)



Fri. June 5, 2026

10:00-18:00

Dejima Messe Nagasaki

4th Three Corners Power Electronics Extended Collaboration Workshop

# 4th 3C-PEEC Workshop

What Can Power Electronics Do as Energy Needs Keep Growing?

Right After  
IPEC-Nagasaki 2026  
—ECCE Asia—

## Overview of Power and Energy Trends in the World

Focus on renewable energy, energy storage, and smart grids.

Dr. Satoshi Hashino  
Honda Motor Co., Ltd.



Japan

Prof. Johan Enslin  
IEEE Power Electronics Society (PELS)



USA

Dr. Daniel Chartouni  
ABB Switzerland



Switzerland

## High-Reliability Technologies or Reliability Design

Addressing fault tolerance, predictive maintenance, and robust design principles.

Prof. Tsuyoshi Funaki  
The University of Osaka



Japan

Dr. Gregory Ratcliff  
Vertiv



USA

Prof. Francesco Iannuzzo  
Polytechnic of Turin



Italy

## Cost Reduction of Equipment/Devices or Life Cycle Assessment

Exploring device innovation, efficient manufacturing, and environmental impact.

Prof. Shin-ichi Nishizawa  
Kyushu University



Japan

Prof. Christina DiMarino  
CPES, Virginia Tech



USA

Dr. Lutz Stobbe  
Fraunhofer Institute for Reliability and Microintegration IZM



Germany

## Low-Loss and Low-EMI Technologies

Discussing power conversion efficiency and electromagnetic interference mitigation.

Prof. Katsuhiro Hata  
Shibaura Institute of Technology



Japan

Prof. Shuo Wang  
University of Florida



USA

Prof. Jean-Luc Schanen  
Univ. Grenoble Alpes, G2ELab



France

Organized by

**NPERC-J**

New-Generation Power Electronics & System Research Consortium Japan

Supported by

The Institute of Electrical Engineers of Japan  
The Japan Society of Applied Physics  
The Japan Society of Mechanical Engineers

# 4th 3C-PEEC Workshop | 4th Three Corners Power Electronics Extended Collaboration Workshop

We will hold a workshop organized by NPERC-J (New-Generation Power Electronics & System Research Consortium Japan), CPES (Center for Power Electronics Systems; Virginia Tech, USA), and ECPE (European Center for Power Electronics e.V.).

Driven by the rapid expansion of AI and the increasing number of data centers, global electricity demand is growing at an unprecedented rate. Energy demand growth presents an urgent, worldwide challenge to achieving a decarbonized society and ensuring energy security. In order to meet the rapidly increasing demand for electricity while achieving a net-zero CO<sub>2</sub> Emissions by 2050, it is necessary to massively introduce long-lasting, low-loss power converters worldwide. The feasibility of this, however, remains unclear from the perspectives of raw material supply, cost, and waste disposal. Therefore, at this symposium, researchers in the field of power electronics will share their latest research findings and insights on the topic of “What Can Power Electronics Do as Energy Needs Keep Growing?” and discuss various perspectives on technical contributions and cooperation through international collaboration.

## Program

Friday, June 5, 2026

- 09:00 Registration
- 10:00 Welcome and Workshop Opening
- 10:20 Overview of Power and Energy Trends in the World
- 11:35 High-Reliability Technologies or Reliability Design
- 12:00-13:10 Lunch
- 13:10 High-Reliability Technologies or Reliability Design
- 14:00 Cost Reduction of Equipment/Devices or Life Cycle Assessment
- 15:15-15:45 Coffee break
- 15:45 Low-Loss and Low-EMI Technologies
- 17:00 Discussion
- 18:00 Networking Dinner

All presentations and discussions will be in English language.

## Venue

### Dejima Messe Nagasaki

4-1, Onouemachi, Nagasaki City, Japan  
1 minute walk from JR Nagasaki Station.  
<https://dejima-messe.jp/en>

## Organisational Information



Sign up at:

[https://eventpay.jp/event\\_info/?shop\\_code=4407932610799993&EventCode=C277470208](https://eventpay.jp/event_info/?shop_code=4407932610799993&EventCode=C277470208)

Registration is scheduled to begin in January 2026.  
Reservations will close when the capacity is reached for the workshop.

Participation Fee: incl. tax

	ADVANCE (Until April 24, 2026)	REGULAR (After April 24, 2026)
Regular fee	40,000 JPY	45,000 JPY
Reduced fee in combination with IPEC 2026 ticket	35,000JPY	40,000 JPY
NPERC-J members	20,000JPY	Complimentary for up to three participants per corporate member company.

- Participation includes dinner, lunch, coffee/soft drinks and digital proceedings.
- Digital proceedings will be provided via download link.
- The participation fees are in Japanese yen due to payment system requirements. Participants can register and pay from the EVENT PAY registration system. Only credit card payments are accepted. (The system is partially in Japanese. We ask for your understanding in this matter.)

### Cancellation policy

- The full amount will be refunded in case of cancellation until May 5, 2026.
- After May 5, 2026, 50% of the fee is non-refundable (replacement is possible).
- Please submit all refund/cancellation requests to: [kaesaru@nperc-j.or.jp](mailto:kaesaru@nperc-j.or.jp)

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