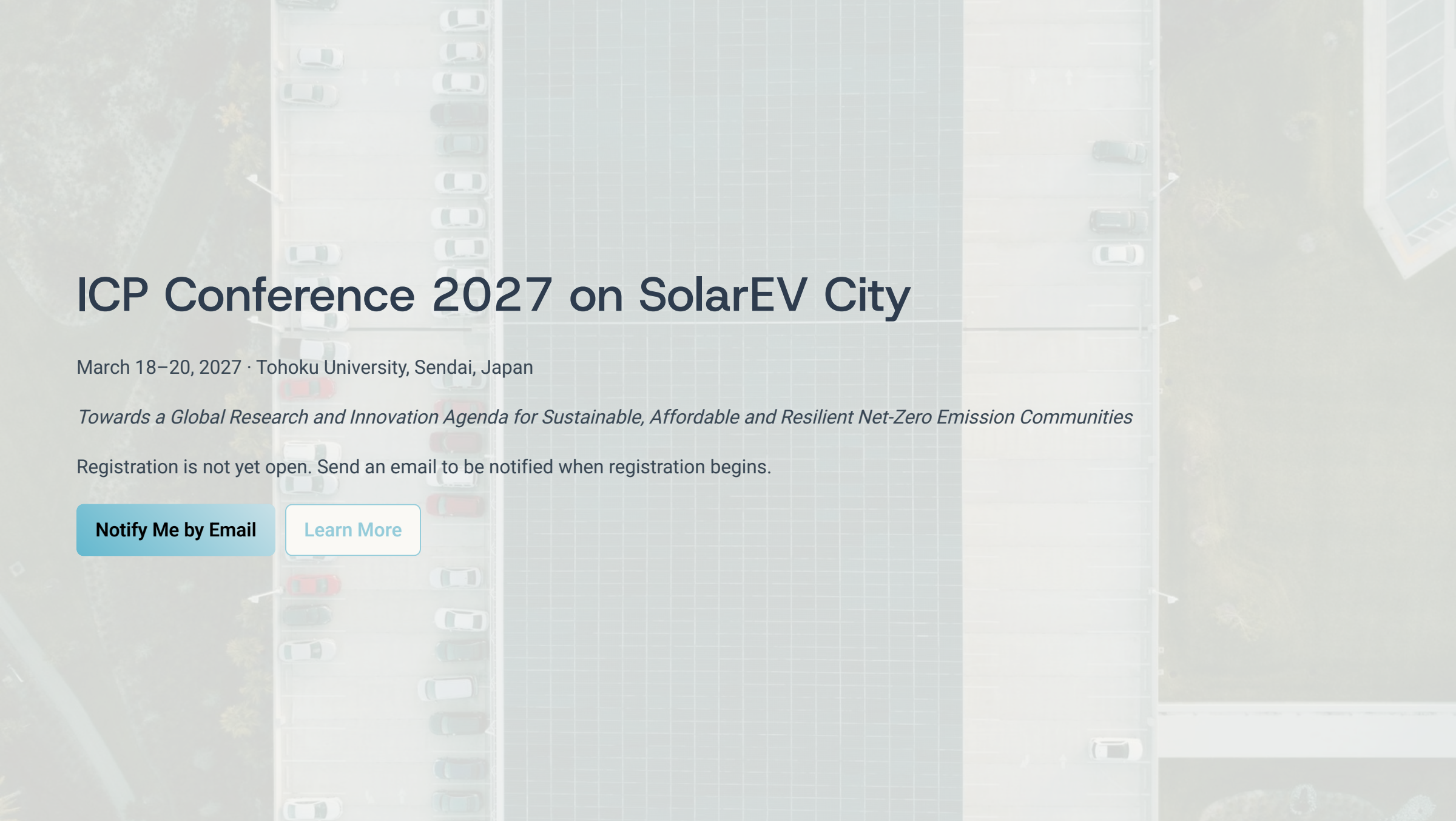


An aerial photograph of a parking lot where many cars are parked under large solar panel arrays. The solar panels are arranged in long, parallel rows, covering the majority of the parking area. The cars are parked in the spaces between the solar panel rows. The background shows some greenery and a building on the right side.

ICP Conference 2027 on SolarEV City

March 18–20, 2027 · Tohoku University, Sendai, Japan

Towards a Global Research and Innovation Agenda for Sustainable, Affordable and Resilient Net-Zero Emission Communities

Registration is not yet open. Send an email to be notified when registration begins.

Notify Me by Email

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About the Conference

Why SolarEV City?

Communities worldwide face mounting challenges from climate change, energy insecurity, and the transition to net-zero emissions. The SolarEV City concept integrates solar energy generation, electric mobility, battery storage, V2H, V2G, and smart community energy systems to build sustainable, affordable, and resilient communities.

This second ICP Meeting builds on collaboration between Japan and Australia, serving as a platform for international researchers, industry leaders, policymakers, and community stakeholders.

This is an open international conference welcoming researchers, practitioners, and policymakers from all countries and disciplines related to sustainable urban energy systems, with the goal of bridging academic research with real-world implementation.

Conference Objectives

01

Identify Priority Research Themes

Define key research priorities supporting the SolarEV City vision.

02

Share Latest Developments

Present research, pilot projects, and real-world implementation insights.

03

Foster International Collaboration

Connect researchers, industry, and government stakeholders globally.

04

Establish a Global R&D Hub

Explore frameworks for long-term international collaboration.

Conference Topics

Technology & Infrastructure

- SolarEV & infrastructure integration
- V2H and V2G systems
- Battery technologies
- Smart grids & microgrids

Resilience & Sustainability

- Community resilience
- Climate adaptation
- Disaster preparedness
- Net-zero communities

Policy & Implementation

- Regulatory frameworks
- Community engagement
- Economic & social impacts
- Innovation adoption

International Collaboration

- Cross-country case studies
- Collaborative research
- Capacity building
- Future global programs

Energy Transition & Renewables

- Solar, wind & renewable energy integration
- Hydrogen production, storage & fuel cells
- Power-to-gas & hydrogen mobility
- Energy system transformation

Decarbonization & Climate Action

- Carbon neutrality pathways
- Just transition frameworks
- Emissions reduction strategies
- Sector coupling & net-zero targets

Format, Venue & Organizing Team

Conference Format

The conference will host approximately **50–70 participants** over three days (March 18–20, 2027), with the final day running in the morning only. An early registration and welcome gathering will be held the evening prior to the official opening.



Keynotes

Invited expert presentations



Panels

Interactive roundtable sessions



Networking

Collaboration planning opportunities

Venue

Tohoku University, Sendai, Japan — internationally recognized for its leadership in disaster recovery, resilience planning, and sustainable urban innovation.

Invitation to Collaborate

We warmly invite colleagues to contribute to program development, session organization, international outreach, and keynote speaker identification. Ideas strengthening a **Global R&D Hub for SolarEV Cities** are especially welcome.

Organizing Committee

Takuro Kobashi

Chair
Graduate School of Environmental Studies, Tohoku University, Japan

Greg Foliente

International Co-Chair
University of Melbourne, Australia

Masaru Yarime

International Co-Chair
Hong Kong University of Science and Technology, Hong Kong

Anawat Suppasri

Organizing Committee
IRIDeS, Tohoku University, Japan

Retno G. Dewi

International Committee
Institut Teknologi Bandung, Indonesia

Soowon Chang

International Committee
Purdue University, U.S.A.

Jae Hyung Roh

International Committee
Konkuk University, South Korea

Yujiro Hirano

Organizing Committee
National Institute for Environmental Studies (NIES), Japan

Hideaki Ohtake

Organizing Committee
National Institute of Advanced Industrial Science and Technology (AIST), Japan

Kaveh Khalilpour

International Committee
University of Technology Sydney, Australia