

ACPP Report 2024

Zhang Wei

🕒 2024 Jan 19th

ARCASIA OB&CC meeting in Kuala Lumpur

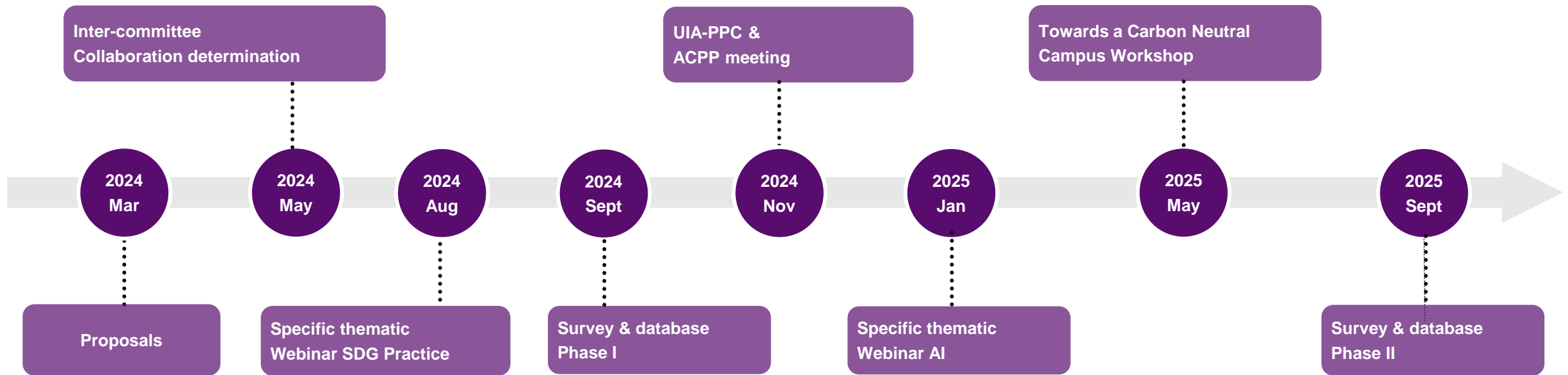
CONTENT

The handover of ACPP.



TIMELINE

ACPP roadmap 2024-2025

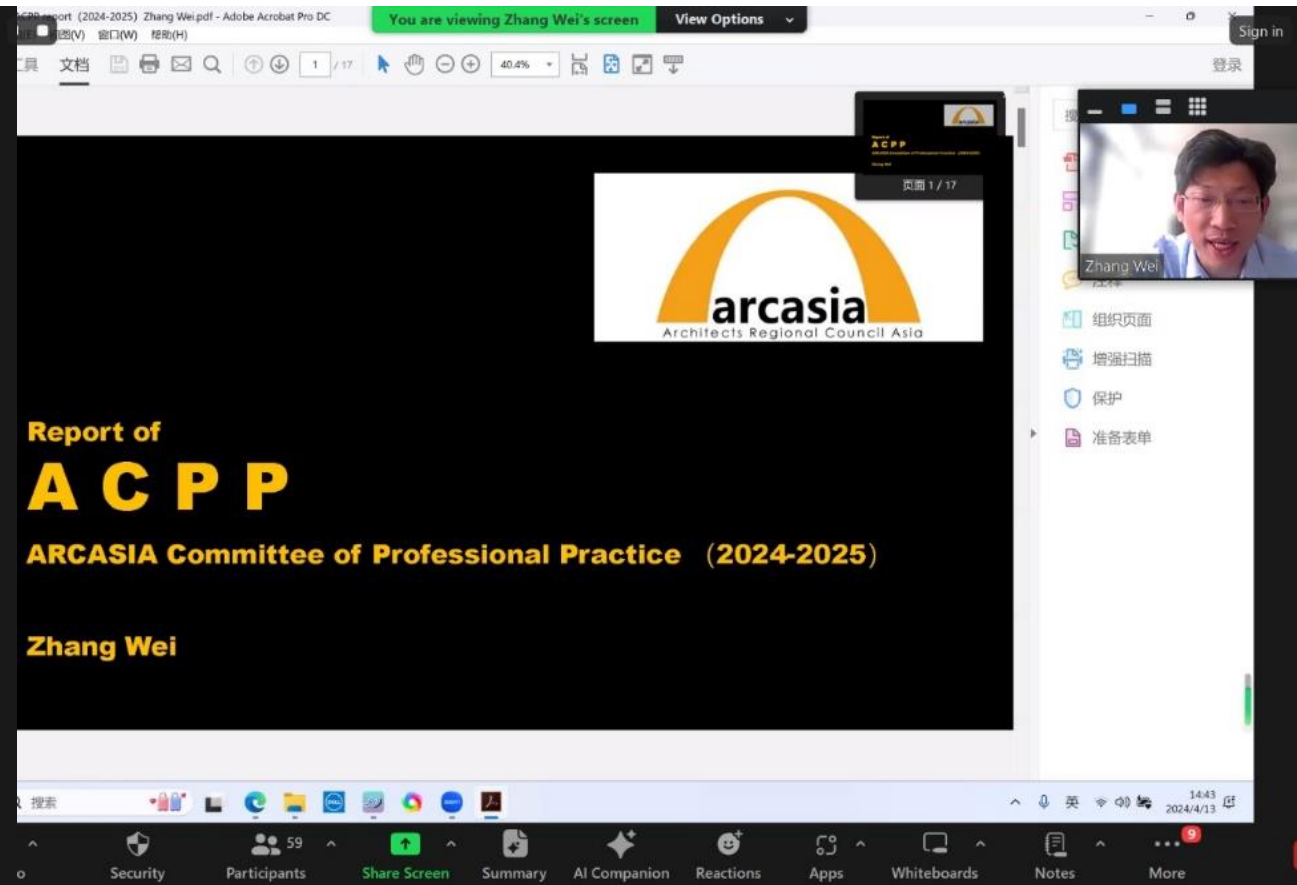


🕒 2024 Apr 13th

Inter-Committee SDG Webinar

CONTENT

ACPP introduced the **Roadmap** of 2024-2025.



🕒 2024 May 1st

Inter-committee Collaboration Determination in Bangkok

CONTENT

Topics are focused on **AI** with **ACAE**, **Carbon Neutral** with **ACGSA**.

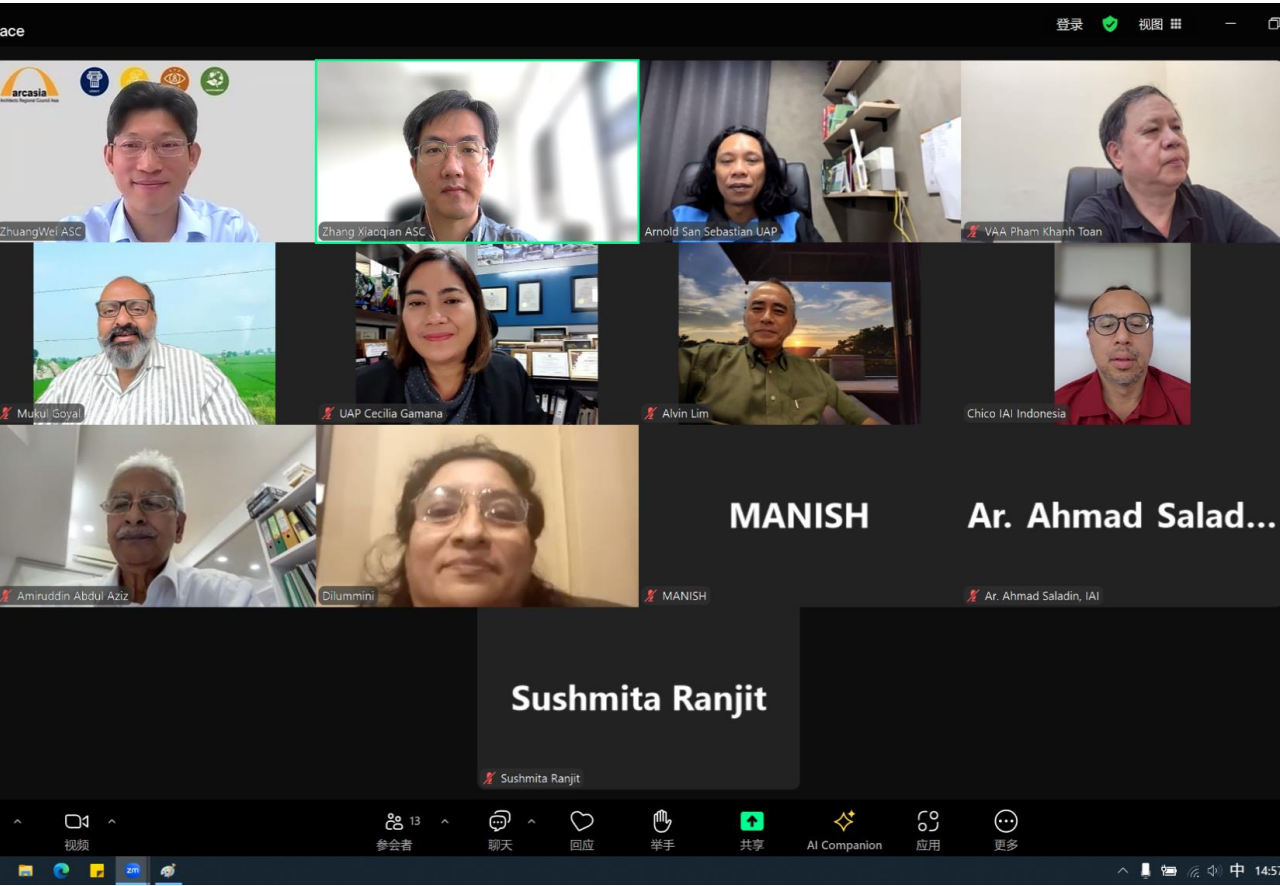




🕒 2024 Jun 26th ACPP Meeting

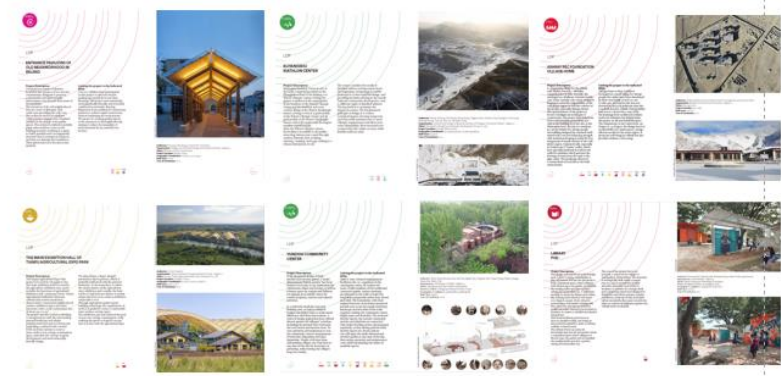
CONTENT

Plan of 2024-2025 was introduced to members of ACPP.



Future

Asian Sustainable Architectural Practices



Cases in UIA Guidebook for the 2030 Agenda

Organize a webinar of practices in the Asia Asian architects to share



🕒 2024 Jul 04th

ARCASIA OB&CC meeting in Kuala Lumpur

CONTENT

We discussed some key elements of sustainable professional practice, including how this project was tendered on a fair basis, the selection of materials, the control of costs, the operation after completion, and whether there was any post occupancy evaluation.



🕒 2024 Aug 18th

Webinar: Asian Sustainable Architectural Practices

Poster

CONTENT

6 speakers and more than 10 countries and regions participated



Keynote Speaker: Ken Yeang



Speaker: Lau Wing



Speaker: Alvin P. Tejada



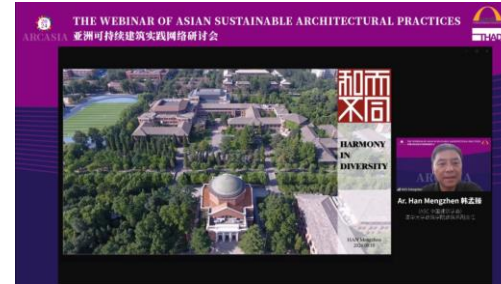
Speaker: Alam F. Mulyana



Open Speech : Saifuddin Ahmad



Open Speech : Zhuang Weimin



Speaker: Han Mengzhen

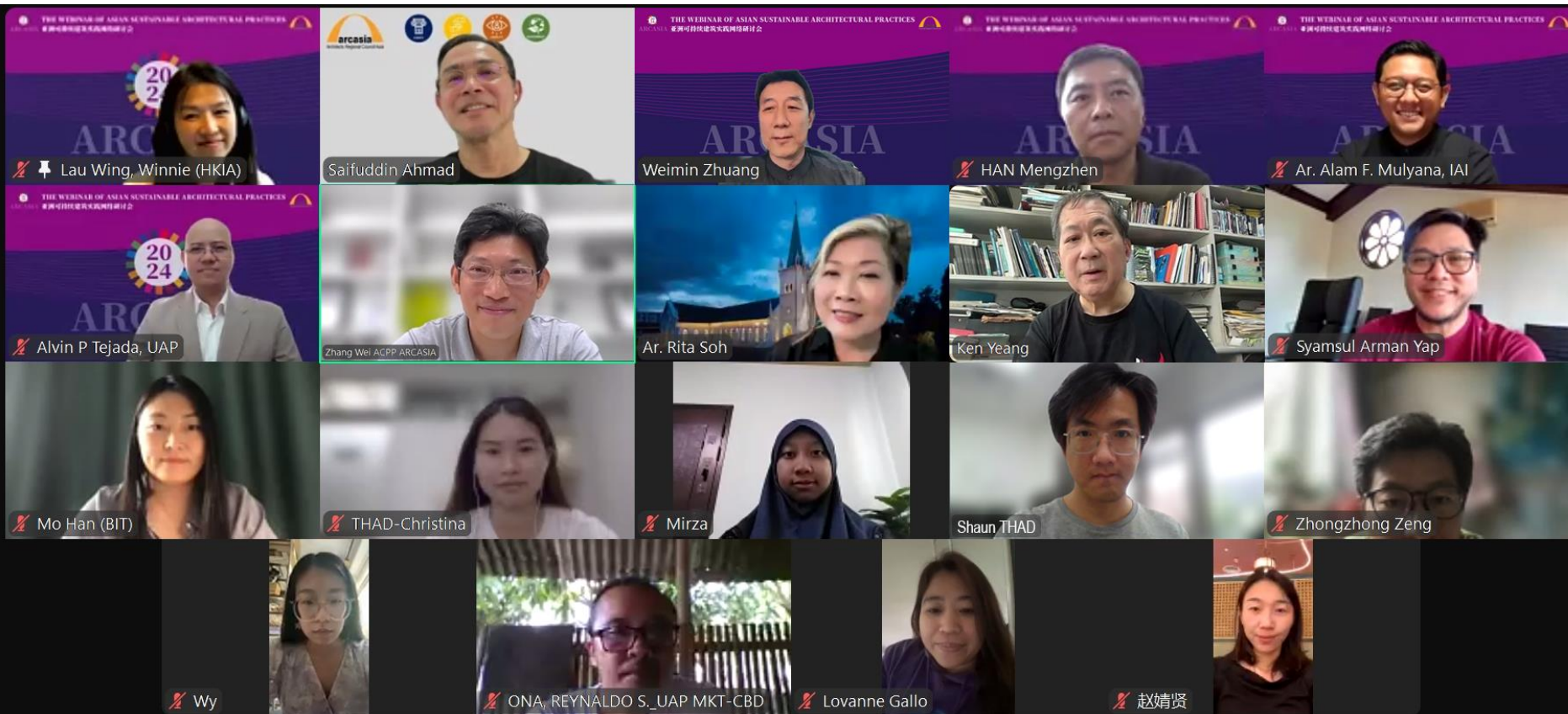


🕒 2024 Aug 18th

Webinar: Asian Sustainable Architectural Practices

CONTENT

6 speakers and more than **10 countries** and regions participated.





🕒 2024 Aug 18th

Webinar: Asian Sustainable Architectural Practices

CONTENT

Over **5000** online participants watched live broadcast.



🕒 2024 Sept

Survey and Database for Practice Phase I

The image displays five overlapping copies of the 'APPA Form 2024-5'. Each form is filled out with information from different architectural organizations. The forms are slightly offset to show multiple pages. The visible text on the forms includes:

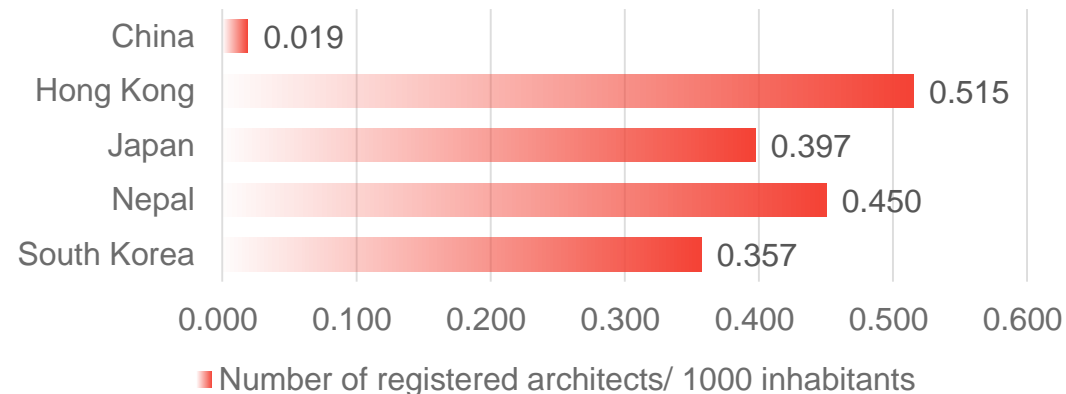
- Country or Region:** China, Japan, Hong Kong, Nepal.
- Identification of the Member Organisation:** The Architectural Society of China, Japan Institute of Architects, The Hong Kong Institution of Architects, Society of Nepalese Architects (SONA).
- Year of creation:** 1953, 2011, 1956, 1990.
- Number of members:** 1761.
- Regulation of the Profession:** Sections detailing laws and professional practice requirements in each country.

5 responses received.

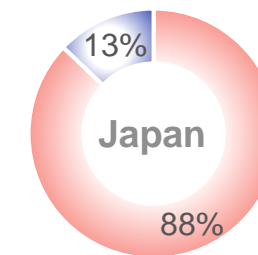
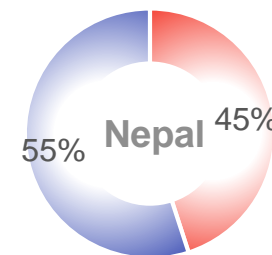
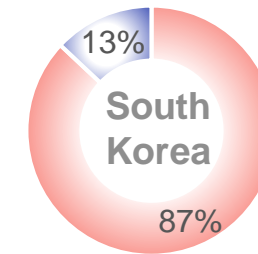
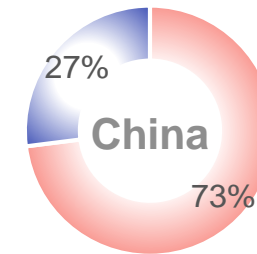
More responses are needed to make this database more complete.

🕒 2024 Sept

Survey and Database for Practice Phase I



All collected data will be **visualized** into charts and forms in the final report.



Male

Female

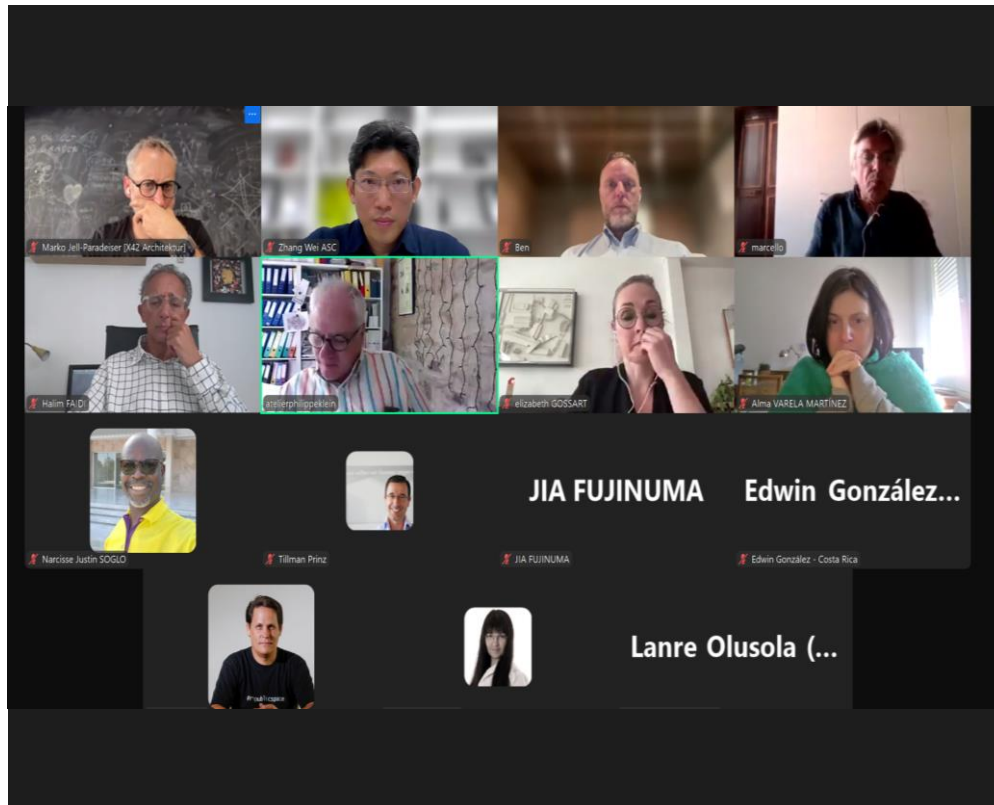
Note:

1. Data collected in 2020.
2. The identification of "Registered Architects" are different, normally based on education level, practical experiences, and examination results.
3. In Japan, Kenchikushi, a professional who plays the dual role of an architect and a building engineer is registered. However, the registration is often not deleted when the person deceases. So the official registered number is very high, 371,184 in 2020. We consider that there are about 50,000 Kenchikushi who practice architectural design in Japan.

🕒 2024 Nov (expected)

UIA-PPC & ARCASIA ACPP Event

November 17, 2024 11:30-12:30



CONTENT

I introduced the importance of dialogue between UIA PPC members and Asian architects.

Considering that UIA PPC also has research work in AI, practical data, and sustainable design, it is necessary to discuss from a global to regional perspective.

The **representative of HKIA** will participate in this event and give a speech. **More ARCASIA members are welcomed** for exchanges and dialogues at that time.



🕒 2025 Jan (expected)

Specific thematic Webinar on AI

CONTENT

Ar Lim Choon Keang (SIA) agreed to take the lead in finalizing the guide. Representatives of countries such as China, Philippines are willing to participate. The document will be discussed in January 2025.



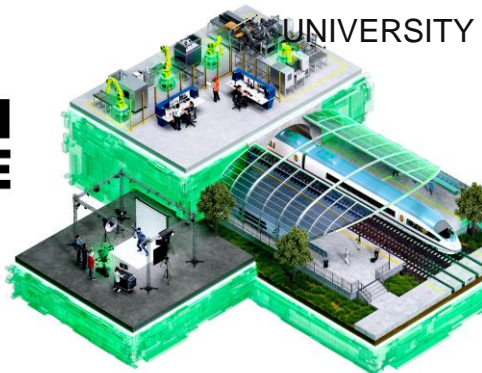
ACE



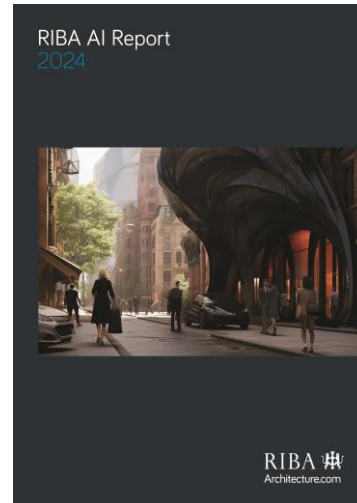
STANFORD
UNIVERSITY

STATE OF
2024 DESIGN & MAKE

Insights from industry leaders on how digital transformation is driving business resilience, sustainability, and talent management



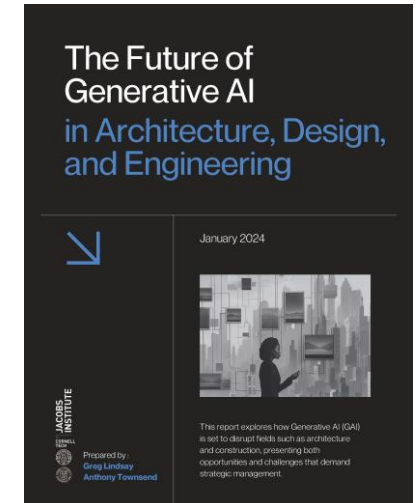
AUTODESK



RIBA



ARCHITIZER



CORNELL UNIVERSITY



🕒 2025 May

Towards a Carbon Neutral Campus and Zero-Carbon building Workshop

CONTENT

Some parks in Japan, China, Singapore, Hong Kong and Malaysia have done carbon neutral plan. There are also some in other countries and cities.

ENEOS, Toyota, and Woven Planet Collaborate to Facilitate CO₂-free Hydrogen Production and Usage for Woven City and Beyond



An unprecedented step toward achieving a carbon-neutral society

ENEOS Corporation (ENEOS) and Toyota Motor Corporation (Toyota) have signed a joint agreement to explore CO₂-free hydrogen production and usage at Woven City, the autonomous city of the future that Toyota has established in Suzhou City, Jiangsu Province, China. Together with Toyota's subsidiary Woven Planet Holdings, Inc. (Woven Planet), they will accelerate efforts to managing carbon emissions.

As described in the basic agreement signed in 2021, ENEOS and Toyota have decided to cooperate in construction and operation of a hydrogen refueling station in close proximity to Woven City to produce and supply CO₂-free hydrogen to Woven City and to Suzhou City. In addition, they will also research and develop an efficient hydrogen supply and demand management system (H2-DMS) for Woven City. The CO₂-free hydrogen refueling station is scheduled to begin operations by the opening of Woven City in 2028-2030.

Items to be considered at the time of the basic agreement¹⁾

1. ENEOS to establish and operate a hydrogen refueling station in close proximity to Woven City.

Yancheng Low-carbon and Smart-energy Innovation Park: From Low Carbon to Zero Carbon

“ Society prioritizes carbon peak and neutrality. Committed to reducing carbon emissions, China has recently announced its goal to reach a carbon emission peak by 2030 and carbon neutrality by 2060. The key to such a bold plan is low-carbon development supported by green energy.

“ To how should the energy industry face up to this challenge? ”

The Yancheng low-carbon and smart-energy innovation park — a special industrial park project initiated by the State Grid Shandong Power Supply Company in Jinan Province — is one model the industry should consider following. Notably, while by Chinese standards, it takes up over 100,000 sqm as the State Grid Energy Park. That said, it features some of the industry's most advanced concepts, innovation plans, and management models, all of which are related to low-carbon projects.

What new ideas and directions can the industry learn from the project?

To answer this question, Mr. Wang Guoping, Deputy General Manager, Shandong Power Supply Company, Jinan City, said, “We paid attention to three important aspects in the project to us to build, including highlighted the project's innovative management strategies for green operation, energy, and carbon emissions.”

Related Products/Solutions
Smart Grid Carbon Capture System 1

Related Industries
Electric Power 1

Related Cases
Building CO₂-free buildings in high-quality urban areas with smart power grids
Smart Power Grids System 1
Smart Grid Energy Management System for both intelligent distribution networks
Integrating Low-Mid of Power Supply
Lighting to Energy: LED Streetlights
Smart Centralized CO₂ Capture System Power Plant & Industrial Greenhousehouse 1

China

Government Support

Green Tech Fund

Environment and Conservation Fund

HK RE NET

Hong Kong

Our Targets

Our Key Targets for the Green Plan

Singapore's Green Plan 2030 shares ambitious and concrete targets to advance Singapore's national agenda on sustainable development. The five-year plan under the Green Plan includes targets that touch almost every dimension of our lives.

City in Nature

2025 targets:

- Develop over 130 ha of new parks, and enhance around 170 ha of existing parks with more lush vegetation and natural landscapes

2030 targets:

- Double our annual tree planting rate between 2020 and 2030, to plant 1 million more trees across Singapore
- Increase nature parks' land area to over 20% from 2020 baseline
- Every household will be within a 10-minute walk from a park

2035 targets:

- Add 2,000 ha of green spaces

Sustainable Living

A Green City where Smart Consumers and Wastes Less

2022 targets:

- Reduce the amount of waste to landfill per capita per day by 20%

Singapore

First carbon-neutral innovation park in Malaysia to be completed by 2035

Related News

ENERGY 28 Jun 2022
Consortium plans Botum's largest RE park

NATION 03 Feb 2021
Malaysia-China carbon neutrality collaboration

NATION 20 Aug 2022
Green light for new roads

KUALA LUMPUR: Malaysia's first ever carbon-neutral innovation park will be completed by 2035, says Science, Technology and Innovation Minister Chang Lih Kang. He said the park will be part of the Malaysian Research Accelerator for Technology and Innovation (MRANTI) existing park in Kuala Lumpur which will see the park's renewable energy capacity increase from its 23% to 40% over the next decade.

"Several eco-friendly practices are already underway, aimed at reducing its carbon footprint, office and park waste, water usage and greenhouse gas emissions in the next five years.

"By 2030, renewable energy sources are planned to account for more than 35% of its energy mix," he said during his speech at the 1-Nation 2023 conference on Monday (Nov 20).

Chang added that several new Green Building Index certified buildings will also be developed at the park while existing buildings will be refurbished to support the agency's newest environmental, social and governance (ESG) goals.

"This effort will also be expanded to MRANTI's partners, vendors and other

Malaysia

CO₂ Emissions from Park Operations at Golden Gate

Bar chart showing CO₂ emissions from park operations at Golden Gate from 2009 to 2023. The chart is divided into three categories: Waste (red), Transportation (orange), and Energy (yellow). The total emissions show a general downward trend over the period.

Waste
Transportation
Energy

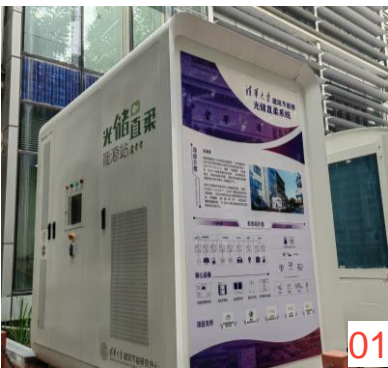
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023

USA

Japan

🕒 2025 May

Towards a Carbon Neutral Campus and Zero-Carbon building Workshop



01



02



03

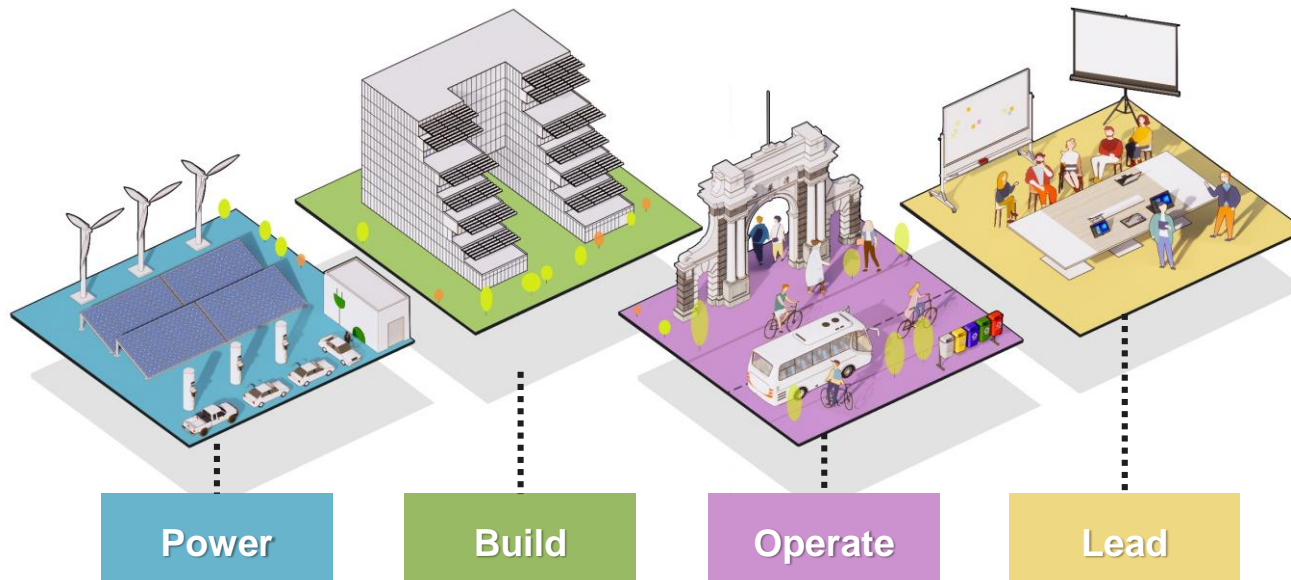
01
PEDF.

02
Flexible Energy Center

03
Zero Carbon Space

CONTENT

This is an opportunity for architects to play a greater role in society. It is also an opportunity for architects to have **more new job opportunities** in the context of global climate change.



🕒 2025 May

Towards a Carbon Neutral Campus and Zero-Carbon building Workshop



Zero-Carbon Building workshop

CONTENT

We are writing a Carbon Neutral Campus planning guide and we have also invited a team of experts to join us. The guide will be discussed at the workshop.



Introduction to Campus Carbon Neutrality Diagnostic Platform Based on CIM

🕒 2025 Sept

Survey and Database for Practice Phase II

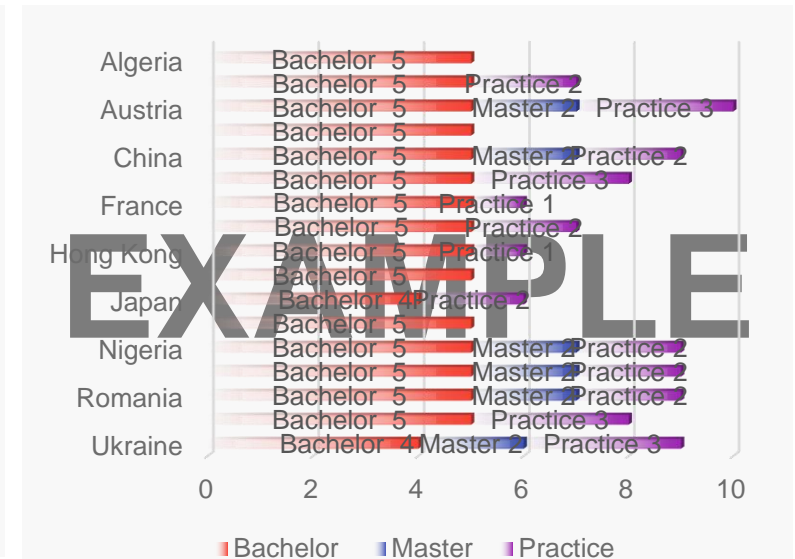
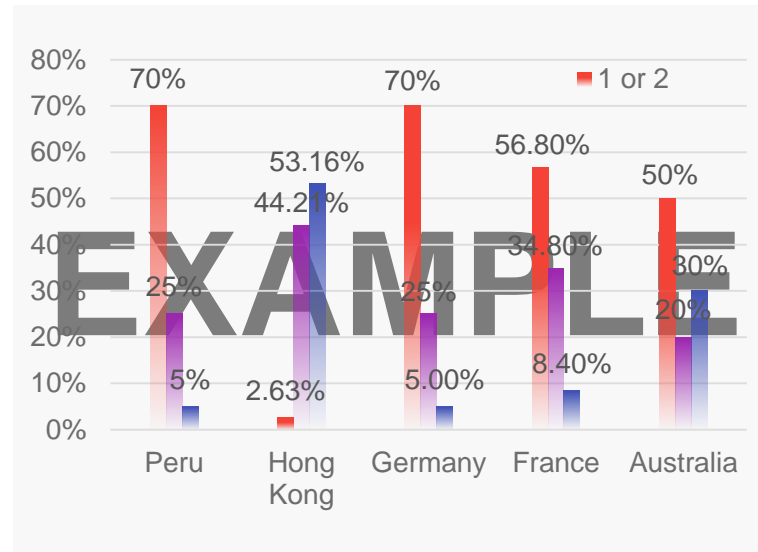
After getting **more responses**, we will **visualize**

all the data, and compare with data from **other**

continents.

We need everyone's support.

For the first time in history, ACPP will showcase architectural practices in ASIA (APIA) through data visualization.



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Thanks