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Architects Regional Council Asia

ACPP

ARCASIA COMMITTEE ON PROFESSIONAL PRACTICE

ACPP CHAIR

Ar. Zhang Wei
ASC

ACPP REPORT for ARCASIA 5th OB&CC Meeting

Ar. Zhang Wei | ACPP Chair 2024-25

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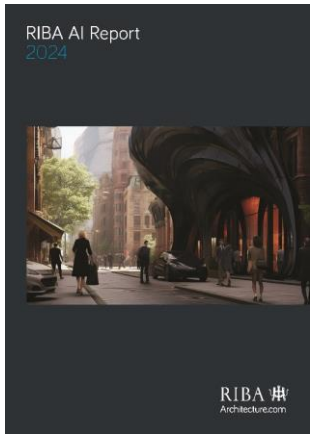
5th ARCASIA OB&CC MEETING | May 8th, 2025 | BEIJING, CHINA

ACPP Group Photo

2025 Jan

Specific thematic Webinar on AI

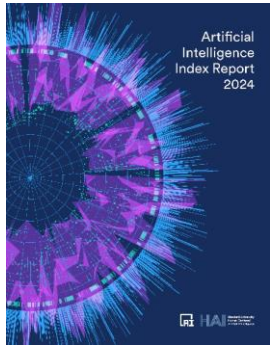
ACE



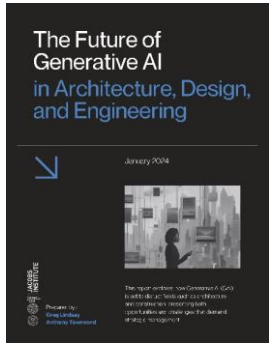
RIBA

ARCHITIZER

AUTODESK



STANFORD



CORNELL

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CONTENT

Ar Lim Choon Keang (SIA) agreed to take the lead in finalizing the guide. members from China, Philippines ,Pakistan， Macao are willing to participate. The draft has already finished and has be revised by the end of March 2025.

ACPP has sent the draft to **ACAE and we discussed it together**. Ultimately it is hoped that by working together we can complete a concise, easy to understand guide on AI in architectural practice for architects.

As a first step, ACPP team conducted a research on how architects use AI tools to assist their work.

REARCH on HOW ARCHITECTS USE AI

2025 . 01

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AI COMMONLY USED BY ARCHITECTS

MIdjourney

stability ai

AUTODESK Forma

workorder

ChatGPT

lookX.ai

SUAPP AIR 灵感渲染

ALPHADRAW

spaceti

Planning & Programming | Schematic Design | Design Development | Construction Documentation | Bidding & Negotiation | Construction Administration | Project Delivery | Post-Occupied Evaluation

AI assist in MODEL RENDERING

SUAPP AI 灵感渲染 SUAPP AIR

input

output

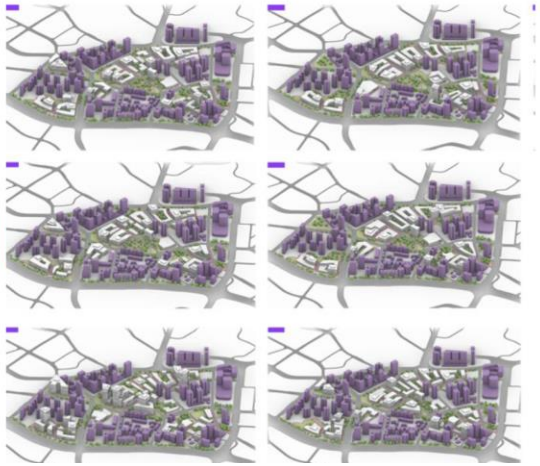
+select reference style

AI assist in PLANNING

lookX.ai xcool

input

output



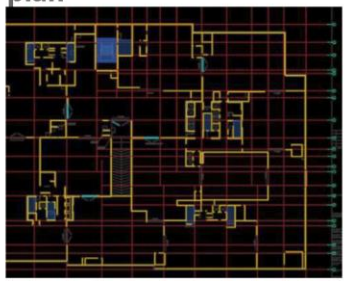
+ urban axis, building density, ratio, etc.

AI assist in CONSTRUCTION DRAWING

Pinlan 品览智造 AlphaDraw

plan

input



parameter

序号	楼层名称	层高（m）	底部标高（m）	顶部标高（m）
17	15层	4.200	52.800	56.800
16	14层	4.200	48.400	52.600
15	13层	5.000	43.400	48.400
14	12层	4.200	39.200	43.400
13	11层	3.900	35.300	39.200
12	10层	3.900	31.400	35.300
11	9层	3.900	27.500	31.400

output

detail drawing

ARCASIA Committee on Professional Practice

ACAE and ACPP Position Paper on Responsible Integration Of Artificial Intelligence in Architectural Education And Practice

Presented by
Ar Lim Choon Keang (SIA)
14 January 2025 at Colombo, Sri Lanka

What's Artificial Intelligence in Architecture?

Artificial intelligence in architecture describes the use of artificial intelligence in automation, design and planning in the architectural process or in assisting human skills in the field of architecture.

Artificial Intelligence is thought to potentially lead to and ensue major changes in architecture.

Reference: Wikimedia

Architecture with Artificial Intelligence

ood. Guiding Principles of Use of AI

The integration of AI in architecture should be guided by the following principles

I.1 Ethical and Responsible Use

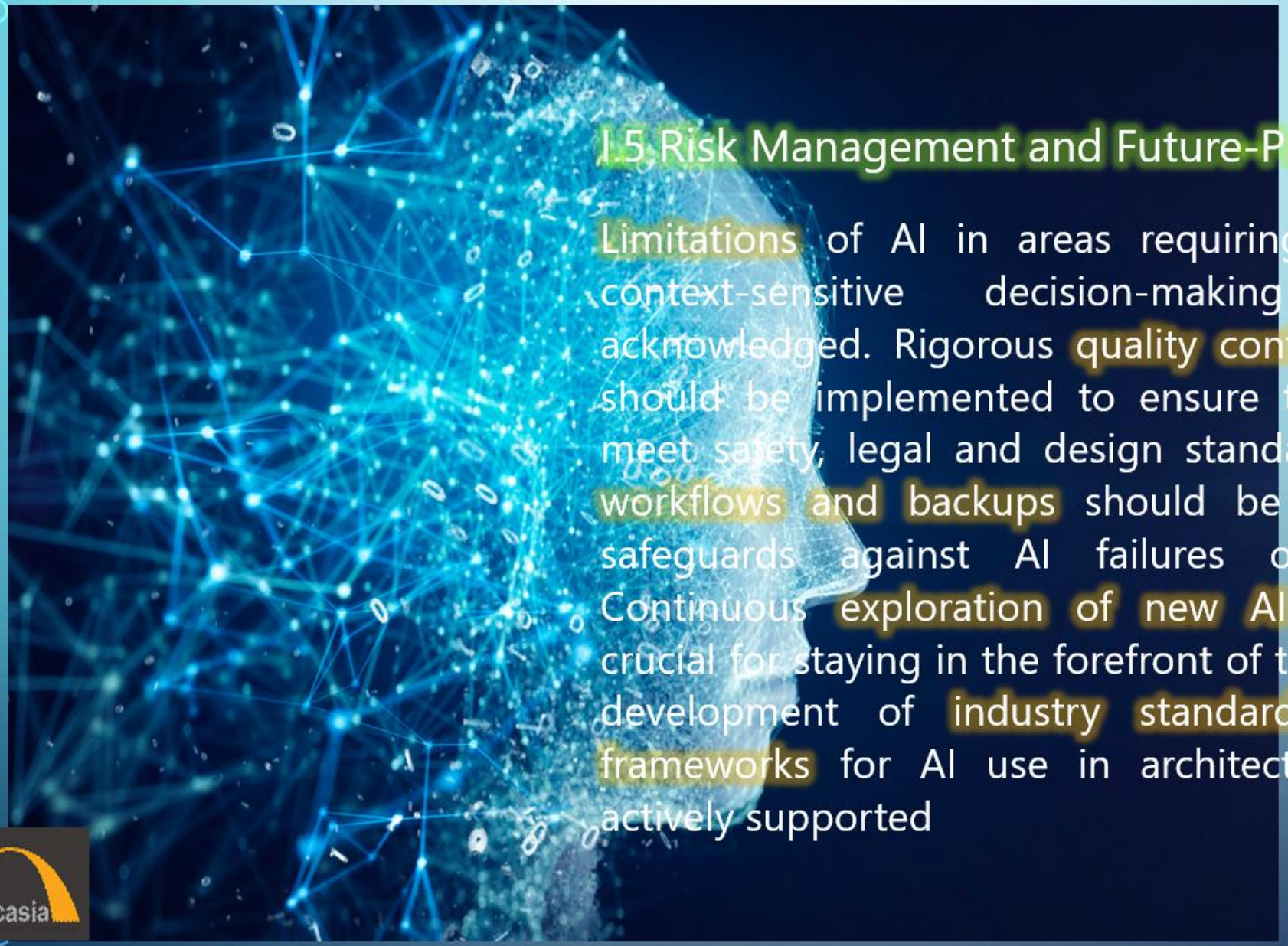
AI tools should be employed to augment, not replace, human creativity, critical thinking and professional judgment. Open communication with stakeholders regarding AI's role and implication in the design process is paramount. Bias mitigation strategies must be implemented in AI tools and design processes to ensure inclusivity and fairness. Adherence to relevant local and international legal frameworks, professional standards and ethical guidelines is mandatory

I.2 Intellectual Property Rights

Intellectual property rights and ownership of AI-generated designs must be clearly defined and contractually agreed upon. Data privacy, confidentiality and security must be strictly observed and protected. Contribution of AI tools and human input respectively must be properly and duly acknowledged.

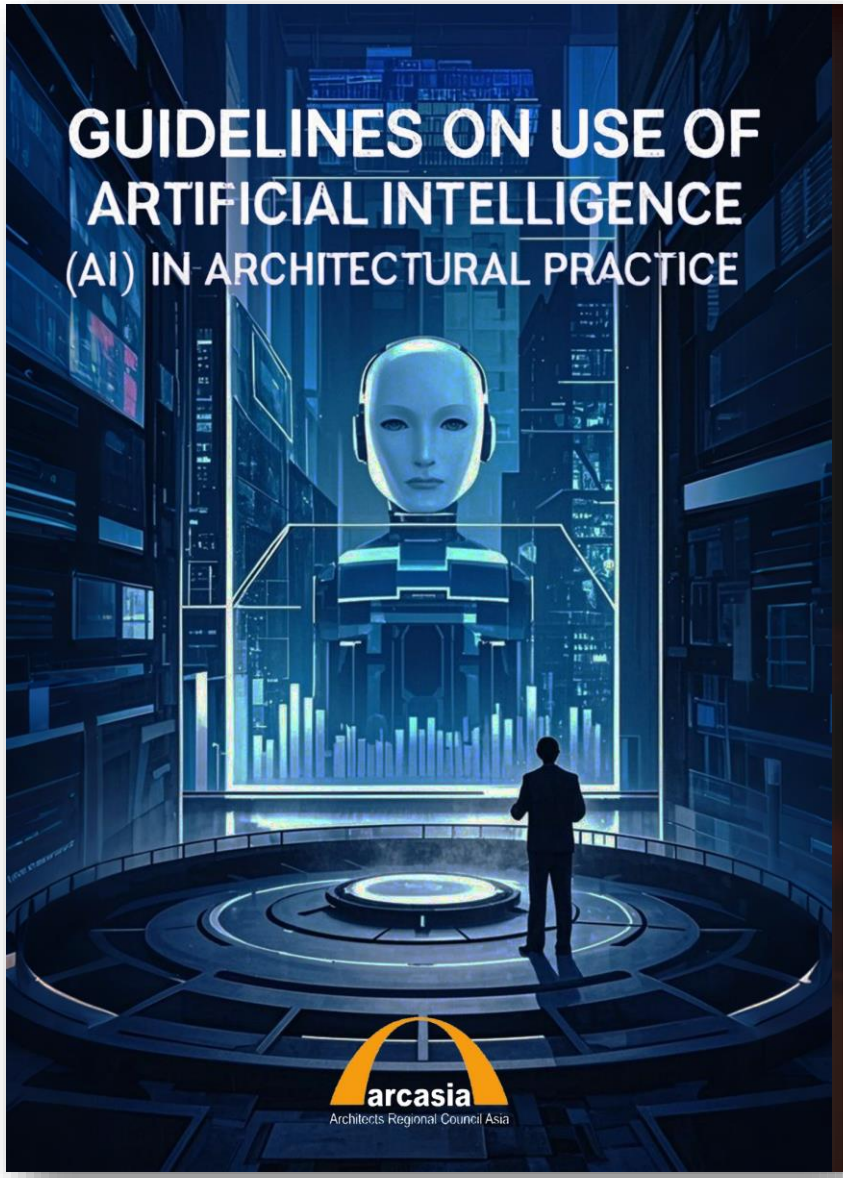
I.3 Sustainability and Efficiency

AI should be leveraged to optimize design processes, promote sustainability and improve efficiency. This includes automating tasks, performing energy analysis, selecting sustainable materials and conducting lifecycle cost assessments. The well-being of users, communities and the environment should be prioritized



I.5 Risk Management and Future-Proofing

Limitations of AI in areas requiring subjective or context-sensitive decision-making must be acknowledged. Rigorous quality control and checks should be implemented to ensure that AI outputs meet safety, legal and design standards. Traditional workflows and backups should be maintained as safeguards against AI failures or inaccuracies. Continuous exploration of new AI capabilities is crucial for staying in the forefront of the industry. The development of industry standards and ethical frameworks for AI use in architecture should be actively supported



Discussions by members in the meeting

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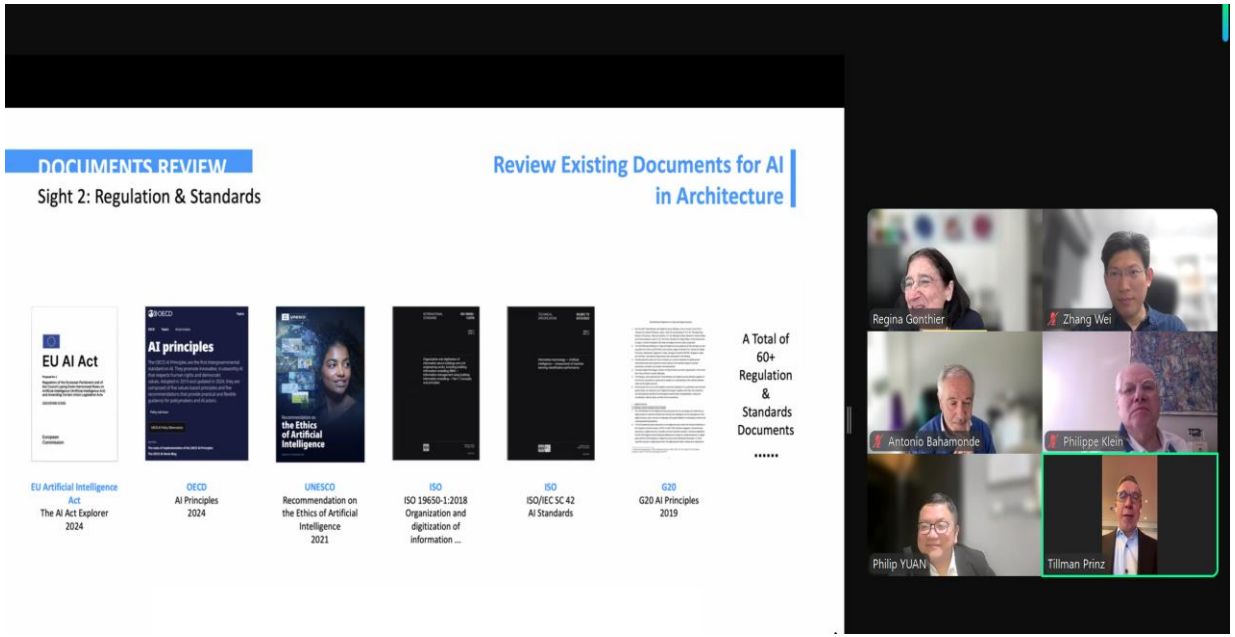
We established a working group with ACAE to discuss the revision of the documents. We also exchanged opinions with experts from the AI working groups of UIA and ACE. We have completed the draft and obtained the consent of the ACAE&ACPP committee. It will be submitted to OB for review.



ACAE AND ACPP POSITION PAPER ON THE RESPONSIBLE INTEGRATION OF ARTIFICIAL INTELLIGENCE IN ARCHITECTURAL EDUCATION AND PRACTICE

WHEREAS, the Architects Regional Council Asia (ARCASIA), as a leading organization representing architectural professionals and institutions across Asia, recognizes the transformative potential and inherent challenges posed by the rapid advancement of Artificial Intelligence (AI) in architectural design, education, and practice;

WHEREAS, the responsible and ethical integration of AI is crucial for fostering innovation while preserving the core values of the architectural profession, including creativity, critical thinking, and human-centered design;

WHEREAS, the diverse architectural contexts and practices across ARCASIA's 22 member institutes necessitate a unified yet adaptable framework for the integration of AI, ensuring both consistency and responsiveness to regional needs;

WHEREAS, ARCASIA's unique position as a regional body empowers it to provide a comprehensive guide for architects, architecture educators and students, fostering a shared understanding and promoting best practices in the utilization of AI;

WHEREAS, the absence of clear guidelines on AI integration may lead to inconsistencies in educational standards and ethical practices across ARCASIA member institutes, potentially hindering the responsible development of the profession;

NOW, THEREFORE, BE IT RESOLVED, that the ARCASIA through its Committee on Architecture Education (ACAE) and Committee on Professional Practice (ACPP) hereby adopts the following on the responsible integration of Artificial Intelligence in Architectural Education and Practice:

I. Guiding Principles:

The integration of AI in architecture should be guided by the following principles:

I.1 Ethical and Responsible Use: AI tools should be employed to augment, not replace, human creativity, critical thinking, and professional judgment. Open communication with stakeholders regarding AI's role in the design process is paramount. Bias mitigation strategies must be implemented in AI tools and design processes to ensure inclusivity and fairness. Adherence to relevant local and international legal frameworks, professional standards, and ethical guidelines is mandatory. Intellectual property rights and ownership of AI-generated designs must be clearly defined and contractually agreed upon. Data privacy, confidentiality, and security must be strictly observed.

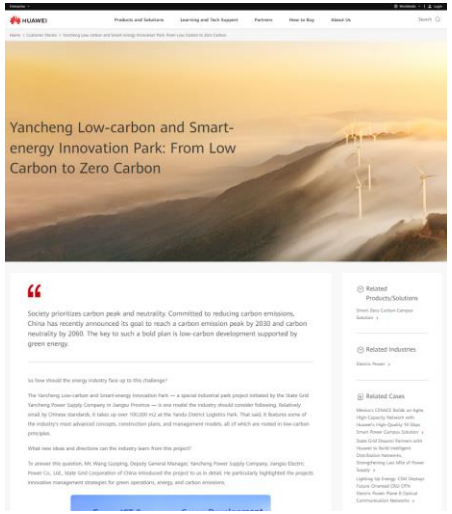
2025 May

SEMINAR ON PLANNING AND DESIGN FOR CAMPUS CARBON NEUTRALITY

CONTENT

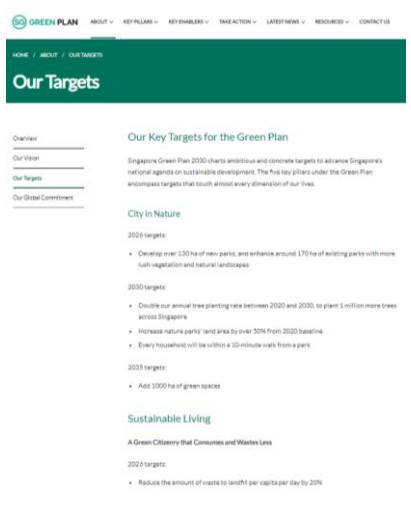
Some parks in Japan, China, Singapore, Hong Kong and Malaysia have their carbon neutral plan. There are also some in other countries and cities.

Japan

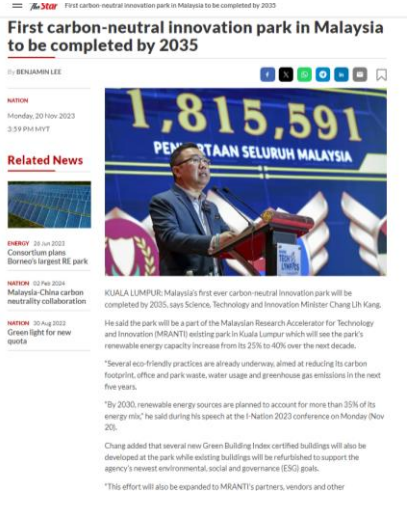


China

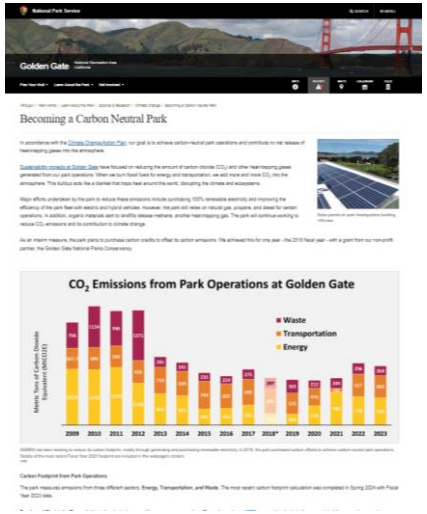
Hong Kong



Singapore



Malaysia



USA

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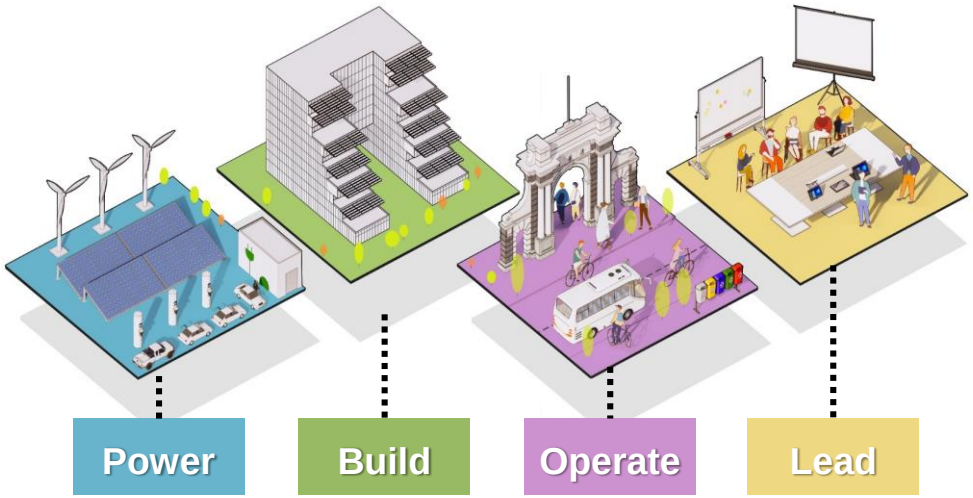
2025 May

Towards a Carbon Neutral Campus and Zero-Carbon building Workshop



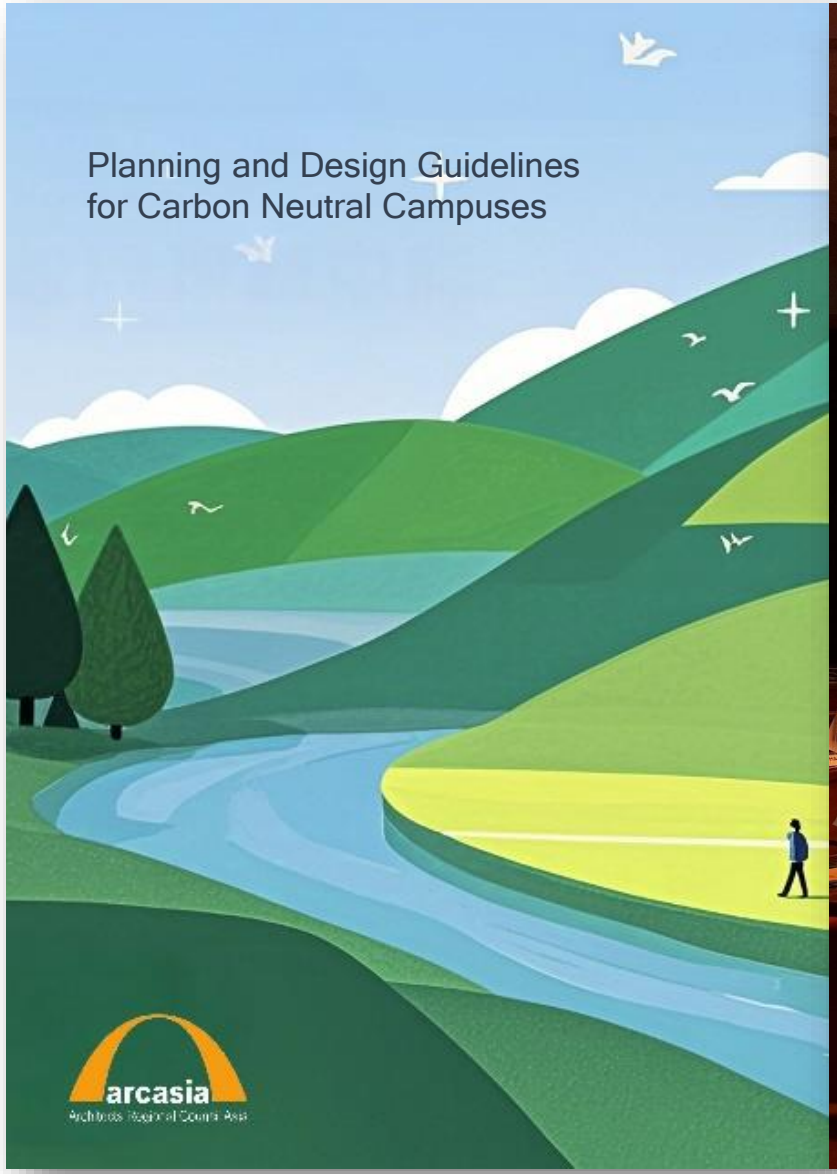
The Campus Carbon Neutral Plan

CONTENT

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

We **collaborate with ACGSA** and result in a carbon neutral planning guide for campus that is customized for architects.

The guide will be discussed at the seminar. The role played by the architect, the responsibilities to be assumed and the corresponding rights and interests also will be discussed in the same time.



Discussions by members in the meeting

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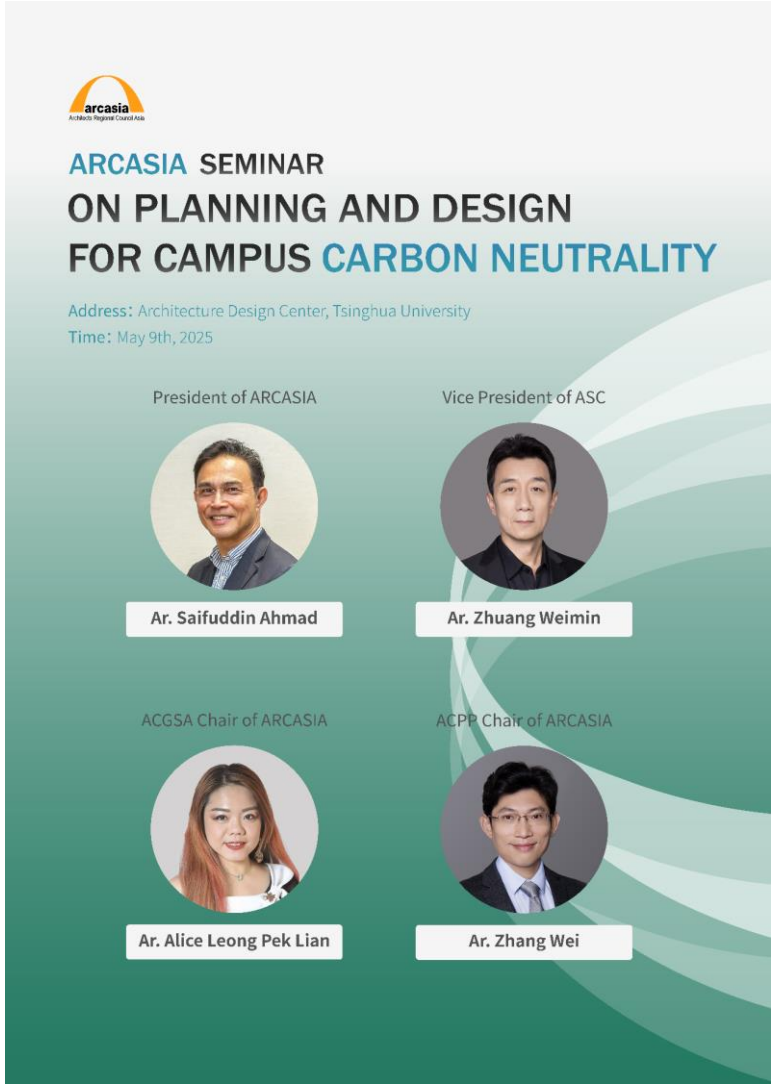
2025 May

SEMINAR ON PLANNING AND DESIGN FOR CAMPUS CARBON NEUTRALITY



Professor Zhuang Weimin serves as the convener of the seminar on May 9th, a visit to the buildings and a discussion on the role of architects in carbon neutrality will be arranged.