

# Beyond building systems Next-gen technologies and approaches for a sustainable future



School of Energy and Environment

香港城市大學  
City University of Hong Kong

ARUP

## TOPIC

### Adaptive energy technologies towards building decarbonization



#### Prof Wei Wu

Associate Professor at the School of Energy and Environment, City University of Hong Kong

Prof Wu's research focuses on advanced heat pumps, thermal energy storage, advanced thermal management and net-zero energy buildings. He obtained his PhD degree from the Department of Building Science at Tsinghua University in 2016.

With 140 SCI publications, 2 books and 25 patents, Prof Wu is among the Top 2% Most Highly Cited Scientists Worldwide by Stanford University.

He also received the NSFC Excellent Young Scientists Fund, IIR Willis H. Carrier Young Researcher Award, NIST Distinguished Associate Award, Global EBE Excellent Young Scholar Award, Sustainability Carbon Neutrality Award, National HVAC Distinguished Young Scholar Award, SEE Excellent Innovation Award, Tsinghua Academic New Talent Award, and nine international invention gold medals.

## TOPIC

### Building performance reimagined



#### Fiona Cousins

Arup Fellow, Chief Operating Officer for Total Design and Executive Director Arup Group Limited Board

Fiona leads global efforts to enhance the firm's capabilities to deliver safer, more resilient and regenerative communities by integrating multidisciplinary expertise, technical excellence and innovation through seamless collaboration.

A mechanical engineer by training, Fiona champions integrated building design in collaboration with architects and other stakeholders to minimise resource use and carbon emissions. Her notable projects include the Bloomberg Center in New York, Perez Art Museum in Miami and Princeton University's Frick Chemistry Building.

Fiona has authored several publications, including *Two Degrees: climate change and our built environment*, and lectures to inspire both students and professionals on design and the role of engineers. She served as the President of CIBSE in 2024-25.

**DATE.** Tuesday, 8 July 2025

**TIME.** 5:00pm (registration starts at 4:45pm)

**VENUE.** LT-12 Mr & Mrs Ho Chun Hung Lecture Theatre,  
Yeung Kin Man Academic Building,  
City University of Hong Kong

Open to the public, in-person only and free of charge.  
A certificate of attendance will be provided following the lecture.  
Eligibility for CPD credits will be subject to respective organisations.

#### REGISTRATION.



▶ Scan the QR code  
or click below:  
<https://forms.office.com/e/1S13FG4gCn>

#### ENQUIRIES.

School of Energy and Environment, CityUHK  
[see.enquiry@cityu.edu.hk](mailto:see.enquiry@cityu.edu.hk)

Jasper Hilkhuijsen  
[jasper.hilkhuijsen@arup.com](mailto:jasper.hilkhuijsen@arup.com)

#### SUPPORTING ORGANISATIONS.

