

Retrofitting Buildings for an Energy-Efficient, Low-Carbon Future: Forum on Domestic and International Practice

16-17 October 2025, Beijing, China

*Hosted by the National Center of Technology Innovation for Green and Low-Carbon Building (NCTI-GB)
and the Energy Efficiency Hub*

The building sector is critical in achieving the doubling of the global rate of energy improvement by 2030. Existing buildings are essential to the effort and pose particular challenges, so sharing of international best practices is key to accelerating progress in all countries. This forum will bring together government officials and experts from the private sector, international organisations and research institutions to discuss existing and emerging practice. Forum objectives are:

- **Feature lessons from China:** Showcase China's experience with a range of national and local policies, programmes and financing instruments deployed to retrofit buildings,
- **Spotlight international work:** Share replicable examples of programmes from other countries and understand how these could be applied in other settings, and
- **Highlight existing and new technologies:** Learn about results from using currently available technologies and share views on how to apply emerging ones to building retrofits.

The event is co-organised by the National Center of Technology Innovation for Green and Low-Carbon Building (NCTI-GB, 国家建筑绿色低碳技术创新中心) and China Construction Technology Consulting Co, Ltd., the Center of Science and Technology and Industrialization Development of China's Ministry of Housing and Urban-Rural Development (CSTID, 住房和城乡建设部科技与产业化发展中心), the China Quality Certification Centre(中国质量认证中心), and the Energy Efficiency Hub (国际能效中心). The event will commence with a day of site visits around Beijing, followed by a full day of in-person panel sessions.

Date	Description
Thursday 16 October	Day of Site Visits Welcome and Introduction Guided site visits Reception and Dinner
Friday 17 October	Day of Panel Session Registration and welcome refreshments Opening ceremony Panel sessions Closing ceremony

Event Location: [Xiyuan Hotel](#), 1 Sanlihe road, 100044 Beijing, China.

Participation is by invitation only.

Day 1: Site Visits

Meeting venue: Building A, No. 36 Deshengmenwai Street, Xicheng District, Beijing

09:00-09:30	Welcome and introduction NCTI-GB, China Construction Technology Consulting Co, Ltd. (CCTC) lobby
09:30-18:00	Guided site visits <ul style="list-style-type: none"> • Beijing Research & Development Center of Building Energy Efficiency, <i>featuring passive house approach</i> • China Architectural Design and Research Group BIM Building, <i>featuring AI-driven Operation and Maintenance</i> • Beijing Planning Exhibition Hall, <i>on the green urban planning for the future in Beijing</i> • Beijing Daji Lane on Luomashi Street inside the Second Ring Road of Xicheng District, <i>featuring a newly renovated residential district</i>
18:00-20:00	Reception and dinner

Day 2: Forum

Forum venue: [Xiyuan Hotel](#) 1 Sanlihe road, 100044 Beijing

08:00	Registration and welcome refreshments Moderator (full day): Mr YANG Yanhua, NCTI-GB (National Center for Technology Innovation for Green and Low-Carbon Building)
Opening ceremony	
08:30	<ul style="list-style-type: none"> • Mr BAI Zhengsheng, Head of the Department of Standards and Quotas, Ministry of Housing and Urban-Rural Development • Mr Tudor CONSTANTINESCU, Principal Adviser to the Director General for Energy, The European Commission and Energy Efficiency Hub Chair • Ms SUN Ying, Leader of the National Center of Technology Innovation for Green and Low Carbon Building • Mr LIU Jiang, Director, China Quality Certification Centre
Session I: Technologies for Building Retrofits	
08:55	Moderator: Ms HU Nan, Business Development Department, China Quality Certification Centre
	Scene-setter: A vision for retrofitting buildings for a high-efficiency, low-carbon future

Mr WU Jingshan, Secretary General, **China Association of Building Energy Efficiency**

Panel 1: Cooling technologies for buildings retrofitting

Key technologies and private sector perspectives from China and other countries

- Mr ZHENG Tiemin, General Manager, **Tianrui Heavy Industry**
- Mr YANG Pengyu, General Manager, **Midea Group**
- Mr LUO Wenbin, **China Institute of Building Design and Research**
- Mr Thilo CUNZ, Head of Department Building International, **German Energy Agency (dena)**

Panel 2: Digitalising existing buildings for energy management systems

Building controls, demand flexibility and two-way supply, grid interactivity of appliances and equipment

- Mr WANG Lin, Technical Director, Commercial Building Business Unit, **Grundfos China**
- Dr YANG Xudong, Vice Chair, **Energy in Buildings and Communities TCP, Tsinghua University**
- Ms XIA Yujuan, **China National Institute for Standardization**
- Mr XU Brown, Key Account Manager, Building Sector, **Schneider Electric**
- Mr ZHANG Sean, **Signify**

10:30

Tea break (20 minutes)

Session II: Keys to Implementing Retrofit Policies

10:50

Moderator: Mr WANG Zhigao, **Energy Foundation China**

Keynote Opening: Mr Tudor CONSTANTINESCU, Principal Adviser to the Director General for Energy, The European Commission and **Energy Efficiency Hub Chair**

Keynote: Mr Yeldos ABAKANOV, Chairman, **National Institute of Energy Saving, Ministry of Industry and Construction, Kazakhstan**

Scene-setter: Policy packages for building energy retrofits

Mr Patrick MCMASTER, Energy Efficiency Analyst, **International Energy Agency**

Panel 3: Policies to drive improved cooling of existing buildings

China's provincial and municipal programmes, international certificates and labels, and policies to strengthen supply chains and skills

- Mr LIANG Chuanzhi, Center of Science and Technology and Industrialization Development, **Ministry of Housing and Urban-Rural Development (MoHURD)**
- Ms JIANG Chunyan, **China Quality Certification Centre**
- Mr Patrick MCMASTER, Energy Efficiency Analyst, **International Energy Agency**

	<p>Panel 4: Policy frameworks to encourage uptake of energy management systems</p> <p>Focus on commercial and multi-family residential buildings, monitoring and certifying energy use in existing buildings, and smart, grid-interactive cooling and heating</p> <ul style="list-style-type: none"> • Mr HEO Seong-hyun, Presidential Commission on Architecture Policy, Republic of Korea • Mr Julien BOUDET, Sustainable Development, Energy, and Transport Advisor, Embassy of France in China • Mr DONG Zhiyu, Beijing Municipal Government, Beijing Construction Commission
12:30	<i>Lunch (1 hour 30 minutes)</i>
Session III: Scaling Financing for Green and Efficient Buildings	
14:00	<p>Moderator: Ms Kristina KLIMOVICH, Programme Officer, Energy Efficiency Hub</p> <hr/> <p>Scene-setter: An overview of innovative financing models and flagship projects from the Asian Development Bank, with a spotlight on low-carbon district heating solutions driving sustainable urban development</p> <p>Ms LU Lanlan, Principal Project Officer (Energy), Asian Development Bank (ADB)</p> <hr/> <p>Panel 5: Mobilising Investment for Smarter, Cooler Buildings</p> <p>Speakers explore innovative financing strategies to accelerate energy efficiency in buildings, with a dual focus on cooling retrofits and smart energy management systems.</p> <ul style="list-style-type: none"> • Mr Markus WYPIOR, Project Director, German Agency for International Cooperation – GIZ • Mr Hani Ibrahim ALSHAHRANI, Initiatives and Programs Department Manager, Saudi Energy Efficiency Center • Mr WEN Hua, Sustainable Cities Director, China Sustainable Transition Center, World Resource Institute • Ms WANG Keli, Senior Program Officer, ICLEI East Asia Secretariat • Ms BAI Jie, China State Construction Engineering Corporation • Mr HAO Jun, Chief Consulting Engineer, National Center for Technology Innovation for Green and Low-Carbon Building • Mr ZHANG Hui, Urban Planner, German Energy Agency
15:45	<i>Short break to set up the online session (15 min)</i>
Session IV: Financing Building Energy Retrofits – Deep Dive on ESCOs	
16:00	Session IV: Financing Building Energy Retrofits – Deep Dive on ESCOs

	<p>Organised by the Energy Efficiency in Buildings Task Group, Energy Efficiency Hub</p> <p>Moderator: Mr Ludwig LABUZINSKI, Senior Expert, International Building and Construction, German Energy Agency (dena)</p>
	<p>Opening addresses:</p> <p>Ms Heide GODRON, Senior Policy Officer, German Federal Ministry for Economic Affairs and Energy (online)</p> <p>Mr Tudor CONSTANTINESCU, Principal Adviser to the Director General for Energy, The European Commission and Energy Efficiency Hub Chair</p> <p>Ms Yasmin GEBHARD, Energy Focal Point, Economic Department, German Embassy in China</p>
	<p>Scene-setter: Deep dive on ESCOs</p> <p>Mr Søren LÜTKEN, Chair of UN ESCO Network, United Nations Environment Programme – Copenhagen Climate Centre (online)</p>
	<p>Panel 6: Unlocking Retrofit Potential: Financing Models and the Role of ESCOs</p> <p><i>Government perspective:</i></p> <ul style="list-style-type: none"> • Mr LIANG Chuanzhi, Center of Science and Technology and Industrialization Development, Ministry of Housing and Urban-Rural Development (MOHURD) • Ms Rebecca WIGGLESWORTH, Advisor on Sustainability, Finance, and Economics, Buildings Policy, Energy Performance and Security Division,, Department of Climate Change, Energy, the Environment and Water, Australia (online) • Mr Nasser ALGHAMDI, Director General, Saudi Energy Efficiency Center, Saudi Arabia (online) • Mr Julien TAMI, Policy Officer, DG ENER, European Commission (online) <p><i>Private Sector perspective:</i></p> <ul style="list-style-type: none"> • Mr SUN Xiaoliang, ESCO Committee of China Energy Conservation Association • Mr Mark LISTER, Co-CEO, CFO, and COO, Asia Clean Energy Partners (online) • Mr HUANG Hao, Towngas Hongkong • Dr Jonathan FLESCH, Team Leader on Neighborhoods and Cities, Competence Center Contracting, German Energy Agency (online)
17:45	<p><i>Short break to set up the stage (5 min)</i></p>
<p>Closing ceremony</p>	
17:45	<ul style="list-style-type: none"> • Mr ZHANG Feng, Centre of Science and Technology Industrial Development (CSTID), which operates under the Ministry of Housing and Urban-Rural Development (MOHURD)

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- Mr Tudor CONSTANTINESCU, Principal Adviser to the Director General for Energy, **The European Commission** and Chair, **Energy Efficiency Hub**
 - Mr XU Xiaolong, Chief Engineer, **National Center for Technology Innovation for Green and Low-Carbon Building**
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