The 8th IEA-Tsinghua Joint Workshop

Organisers 主办单位:
International Energy Agency (IEA) 国际能源署
Building Energy Research Centre, Tsinghua University (BERC) 清华大学建筑节能研究中心

Supporting Organisations 支持单位:
Energy Foundation China 能源基金会
Chinese National Institute of Standardisation (CNIS) 中国标准化研究院

Time 时间: 14:00 ~ 18:00 (Beijing 北京) / 08:00 ~ 12:00 (Paris 巴黎)
Date 日期: 2022 年 10 月 27 日 / Oct 27th, 2022
Platform 会议方式: Zoom 线上会议
Language 会议语言: 中英文，同声传译

Please register in advance

Register in advance for this meeting at the following link:
https://meetoecd1.zoom.us/webinar/register/WN_8dPJa_0LT_Au8QfSO16O9w

After registering, you will receive a confirmation email containing information about joining the meeting.

If you have any problems during registration, please contact: yzy20@mails.tsinghua.edu.cn or conor.gask@iea.org
Background

Several countries around the globe have committed to target towards achieving carbon neutrality in the next decades. Buildings operations account directly and indirectly for approximately 30% of global energy sector emissions, and will play a critical role in meeting these targets. In 2021 direct emissions from heating buildings grew by 5.5%, reaching a new high of 2 500 Mt CO2, 80% of direct CO2 emissions in the buildings sector. Despite this increase, CO2 emissions from energy use for heating are only 1.5% above 2010 levels. Aligning with governments’ targets, whilst at the same time addressing the ongoing energy crisis, will require a rapid acceleration of the rate of improvement.

The 8th IEA-Tsinghua Joint Annual Conference Making Buildings Zero-Carbon Ready by 2030 – Near-term Solutions for Heating Systems, will bring together leading global experts from government, academia, think-tanks and the private sector to share experiences on decarbonisation of building heating systems. The workshop, outcome of the longstanding collaboration between IEA and the Building Energy Research Centre (BERC) of Tsinghua University, will focus on the near-term policy, technology and financing options available for governments to ensure that space heating in the buildings sector can remain on track to meet decarbonisation goals in the next decade whilst delivering energy savings needed to protect consumers from high energy costs.

During the workshop speakers will address topics including:

- Near-term outlook for decarbonisation of the buildings sector – global and regional perspectives
- Policy and technology approaches for accelerating building space heating system decarbonisation
- Near-term policy and financing best practices for retrofitting buildings and for accelerating deployment of best available technologies
## Agenda 会议日程

### Opening 开幕

**Moderator: Melanie Slade, Senior Programme Manager of Energy Efficiency in Emerging Economies Programme**

Melanie Slade, 国际能源署新兴经济体能源效率，高级项目经理

- **Opening speech 开幕致辞**
  - CST: 14:00-14:15 (北京时间)
  - CET: 8:00-8:15 (欧洲中部时间)
  - Kun Qin, Director of Energy Conservation Division, Department of Resource Conservation and Environmental Protection, China National Development and Reform Commission 勤坤，国家发展和改革委员会环资司节能处，处长
  - Brian Motherway, Head of Energy Efficiency Division International Energy Agency Brian Motherway，国际能源署 (IEA) 能源效率组，主管
  - Yi Jiang, Director of BERC of Tsinghua University, Academician of CAE 江亿，清华大学建筑节能研究中心主任，中国工程院院士

- **Online group photo 在线合影**
  - CST: 14:15-14:20
  - CET: 8:15-8:20

### Session 1: Near-term outlook for buildings sector decarbonisation – global and regional perspectives

建筑领域脱碳的近期展望——全球和区域展望

**Moderator: Melanie Slade, Senior Programme Manager of Energy Efficiency in Emerging Economies Programme**

Melanie Slade，国际能源署新兴经济体能源效率，高级项目经理

- **Pathways for delivering zero-carbon ready buildings by 2030 到2030年实现零碳建筑的路径**
  - CST: 14:20-14:35
  - CET: 8:20-8:35
  - Chiara Delmastro, Energy Analyst of Technology Innovation Unit, IEA Chiara Delmastro，国际能源署技术创新组，能源分析师
  - Rafael Martinez Gordon, Energy Analyst of Technology Innovation Unit, IEA Rafael Martinez Gordon, 国际能源署技术创新组，能源分析师

- **Decarbonisation pathway for building heating systems in China 中国建筑供热系统的脱碳路径**
  - CST: 14:35-14:50
  - CET: 8:35-9:05
  - Yi Jiang, Director of BERC of Tsinghua University, Academician of CAE 江亿，清华大学建筑节能研究中心主任，中国工程院院士

- **Context of energy efficient buildings and decarbonization of heating systems in Europe 欧洲节能建筑与供暖系统脱碳**
  - CST: 14:50-15:05
  - CET: 8:50-9:05
  - Anne Svendsen, Special Consultant, Danish Energy Agency (DEA) Anne Svendsen, 丹麦能源局，顾问

- **Context for building heating systems and how their energy efficiencies are evaluated in a Building Energy Code of Japan 日本建筑物供热系统以及如何在建筑能效规范中评估其能源效率**
  - CST: 15:05-15:20
  - CET: 9:05-9:20
  - Takao Sawachi, President of the Building Research Institute 泽地孝男，日本国立建筑研究所，理事长
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<th>Session 2: Accelerating decarbonisation of building heating systems – policy and technology solutions</th>
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<td><strong>Moderator: Araceli Fernandez Pales, Head of Technology Innovation Unit</strong></td>
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<td><strong>Araceli Fernandez Pales, 国际能源署,技术创新组组长</strong></td>
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| CST: 15:30-15:45  
CET: 9:30-9:45 | Xudong Yang, Professor, Vice Dean of Architecture School, Tsinghua University | Fossil-free distributed heating: technology advancement and large scale applications  
基于非化石能源的分布式供热：技术进展及大规模应用 |
| CST: 15:45-16:00  
CET: 9:45-10:00 | Richard Lowes, Senior Associate, Regulatory Assistance Project (RAP) | Policies in Europe for driving heating systems decarbonisation  
欧洲推动建筑供暖系统低碳化的政策 |
| CST: 16:00-16:15  
CET: 10:00-10:15 | Jianjun Xia, Associate professor, Architecture School, Tsinghua University | The application of Industrial waste heat for district heating  
工业余热在集中供热系统中的应用 |
| CST: 16:15-16:30  
CET: 10:15-10:30 | Cheng Jianhong, researcher of Chinese National Institute of Standardisation (CNIS) | Importance of standards in supporting the affordable growth of the high-efficiency heat pump market  
标准在支持高效热泵市场增长方面的重要性 |
| CST: 16:30-16:45  
CET: 10:30-10:45 | Q&A 提问与讨论 |

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<th>Session 3: Moderated panel on “finding near-term solutions that can support decarbonisation of heat in buildings”</th>
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<td><strong>Moderator:</strong> Jianjun Xia, Associate professor, Architecture School, Tsinghua University</td>
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**Topics to discuss and debate:**

1. **Actions being taken by governments in buildings heating sector in preparation for the upcoming Winter.**
   为迎接即将到来的冬季，政府在建筑供暖领域采取的行动

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| CST: 16:45-17:05  
CET: 10:45-11:05 | Ang Ye, Team Lead, Division of Urban energy transition, German Energy Agency |  |
| Mr. Xiaoliang Sun, Executive Deputy Director and Secretary-general of ESCO Committee of China Energy Conservation Association, EMCA |  |
| Pauline Lucas, Policy Director, Euroheat & Power |  |
2. Financing solutions for retrofitting and for accelerated deployment of best available heating technologies

Zhigao Wang, Senior Program Director, Low Carbon Cities Program, Energy Foundation China

Mr. Xiaoliang Sun, Executive Deputy Director and Secretary-general of ESCO Committee of China Energy Conservation Association, EMCA

Miha Bobic, Vice President for Buildings, Danfoss

Lijian Zhao, China Country Manager, Carbon Trust

CST: 17:05-17:25
CET: 11:05-11:25

3. Suitable technology solutions to achieve low-carbon, resilient and inclusive heating system

Hengyi Zhao, Executive vice general secretary, China heat pump alliance, CHPA

Congfei Wang, senior engineer, Chinese Association of Refrigeration

Longai Zhang, assistant general manager of commercial AC R&D department, Gree

CST: 17:30-17:55
CET: 11:30-11:55

Closing 闭幕

Conor Gask, Energy Efficiency Analyst, IEA

Jianjun Xia, Associate professor, Architecture School, Tsinghua University

CST: 17:55-18:00
CET: 11:55-12:00