



Building Energy
Research Center
Tsinghua University



第七届 清华大学 - 国际能源署 联合研讨会

The 7th IEA-Tsinghua Joint Workshop

建筑领域实现碳中和承诺的路径

Achieving carbon neutrality pledges:

The role of buildings

北京时间: 下午 15:00 ~ 19:00, 2021 年 11 月 30 日

Central European Time: 8:00 ~ 12:00, Nov 30th, 2021

会议方式: Zoom 线上会议

Venue: Zoom Webinar

会议语言: 中英文, 同声传译

Working language: Chinese and English, simultaneous interpretation

主办: 清华大学建筑节能研究中心
国际能源署

Organizers: International Energy Agency

Building Energy Research Centre, Tsinghua University



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Agenda

会议日程

Opening 开幕

Moderator: Da Yan, Professor, Tsinghua University

主持人: 燕达, 清华大学教授

<p>IST: 15:00-15:10 CET: 8:00-8:10</p>	<p>Opening speech 开幕致辞</p> <p>Melanie Slade, Senior Programme Manager, IEA Melanie Slade, 国际能源署能效部 高级项目官员</p> <p>Weimin Zhuang, Professor, Tsinghua University, Academician of CAE 庄惟敏, 清华大学教授, 中国工程院院士</p> <p>Xudong Yang, Professor, Tsinghua University 杨旭东, 清华大学教授</p>
<p>IST: 15:10-15:15 CET: 8:10-8:15</p>	<p>Online group photo</p> <p>在线合影</p>

Session 1: Outlooks and Opportunities for carbon neutrality in China's building sector

中国建筑领域实现碳中和的前景与机遇

<p>IST: 15:10-15:40 CET: 8:15-8:45</p>	<p>The approach for Chinese zero carbon in the building sector 中国建筑领域的零碳路径</p> <p>Release of the China Building Energy Use and Carbon Emission Yearbook 2021 发布《China Building Energy Use and Carbon Emission Yearbook 2021》</p> <p>Jiang Yi, 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</p>
<p>IST: 15:40-16:10 CET: 8:45-9:15</p>	<p>An energy sector roadmap to carbon neutrality in China 中国能源体系碳中和路线图</p> <p>Araceli Fernandez Pales, Head of Technology Innovation Unit, IEA Araceli Fernandez Pales, 国际能源署 技术创新组组长</p> <p>Chiara Delmastro, Energy Analyst, Technology Innovation Unit, IEA Chiara Delmastro, 国际能源署 技术创新组分析师</p> <p>Thibaut Abergel, Energy Analyst, Technology Innovation Unit, IEA Thibaut Abergel, 国际能源署 技术创新组分析师</p>
<p>IST: 16:15-16:25 CET: 9:15-9:25</p>	<p>Questions and answer 提问与讨论</p>



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Session 2: International building sector carbon neutrality roadmaps

国际建筑领域实现碳中和的路径

IST: 16:25-16:40 CET: 9:25-9:40	Japan's Roadmap to Carbon Neutrality in the Building and Housing Sectors 日本建筑领域碳中和路线图 Takashi Imamura, Counsellor, Housing Bureau, Ministry of Land, Infrastructure, Transportation and Tourism, Japan Takashi Imamura, 日本国土交通省住房局 参事
IST: 16:40-16:55 CET: 9:40-9:55	Best practices in buildings policy package: the case of Australia 澳大利亚建筑领域政策的最佳实践 Carlos Flores, Director, National Australian Built Environment Rating System (NABERS) in the Department of Planning, Industry and Environment Carlos Flores, 澳大利亚国家建筑环境评估系统 总监
IST: 16:55-17:10 CET: 9:55-10:10	ASEAN regional roadmap 东盟地区建筑碳中和路线图 Ksenia Petrichenko, Energy Efficiency Policy Analyst, IEA Ksenia Petrichenko, 国际能源署 能源效率政策分析师
IST: 17:10-17:25 CET: 10:10-10:25	Questions and answer 提问与讨论

Session 3: Critical issues to achieve zero carbon emissions in buildings

实现建筑领域碳中和的关键问题

Moderator: Clara Camarasa, Energy Efficiency Policy Analyst, IEA

主持人: Clara Camarasa, 国际能源署 能源效率政策分析师

IST: 17:25-17:40 PR: 10:25-10:40	Energy flexible buildings towards resilient low carbon energy systems – knowledge gained through Annex 67 and research questions for Annex 82 面向弹性低碳能源系统的能源灵活性建筑 Li Rongling, Professor, DTU 李荣玲, 丹麦技术大学 教授
IST: 17:40-17:55 CET: 10:40-10:55	District Energy and Storage Solutions for Carbon Neutrality in the Building Sector 面向建筑领域碳中和的区域能源和储能系统方案 Viktoria Martin, Professor, KTH Viktoria Martin, 瑞典皇家理工学院 教授
IST: 17:55-18:10 CET: 10:55-11:10	Questions and answer 提问与讨论



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Session 4. Roundtable: Technologies deployment and policy implementation to deliver net zero emissions buildings

圆桌讨论：净零排放建筑的技术部署和政策机制

IST: 18:10-18:50

CET: 11:10-11:50

Topics to discuss and debate:

- **Technology deployment.**
 - How could decentralised building-integrated PV and centralised PV plants be deployed to scale up renewable electricity uptake in both high load-density and remote regions?
如何部署分散式建筑一体化光伏和集中式光伏电站，以扩大高负荷密度和偏远地区的可再生电力应用
 - What are the technical feasibility and advantages of heat pump and waste heat technology for building space heating in cold region?
寒冷地区建筑供热利用余热资源供暖和电动热泵供暖，二者的技术适宜性和优势是什么？
- **Implementation.** How can policies instruments and roadmaps ensure the large-scale uptake of the innovative buildings power system technologies?
如何利用政策工具推动建筑新型电力系统技术的大规模利用？

Closing 闭幕

IST: 18:50-19:00

CET: 11:50-12:00

Melanie Slade, Senior Programme Manager, IEA

Melanie Slade, 国际能源署能效部 高级项目官员,

Jiang Yi, Director and Professor, BERC, Tsinghua University

江亿, 清华大学建筑节能研究中心主任