



2022 臭氧气候技术工业圆桌会议

2022 Ozone2Climate Technology Industry Roundtable

联合国环境规划署
联合国开发计划署
生态环境部对外合作与交流中心
中国制冷空调工业协会

UNEP, UNDP, FECO and CRAA

Invite You to the Ozone2Climate
Technology Industry Roundtable

诚挚邀请您参加
臭氧气候技术工业圆桌会议

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|----------|---------|-----------------------|---------------|
| 臭氧气候技术路演 | | 8月1日—3日 9:00~17:00 | 路演展区 N5G63 |
| 工业圆桌会议 | 政策与挑战 | 8月1日 13:30~16:30 | 路演展区 N5G63 |
| | 空调与冷链技术 | 8月2日 9:30~12:30 | 路演展区 N5G63 |
| | 维修良好操作 | 8月2日 13:30~16:30 | 路演展区 N5G63 |

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|-----------------------------------|-----------------------------------|----------------------------|-------------------------|
| Ozone2Climate Technology Roadshow | | August 1 - 3 9:00~17:00 | Roadshow Booth N5G63 |
| Industry Roundtable | Policy and Challenges | August 1 13:30~16:30 | Roadshow Booth N5G63 |
| | Air Conditioning and Cold Chain | August 2 9:30~12:30 | Roadshow Booth N5G63 |
| | Good Practice in Servicing Sector | August 2 13:30~16:30 | Roadshow Booth N5G63 |

会议直播—路演展区 N5G63
Roadshow Booth N5G63



(English 英文)



(Chinese 中文)

圆桌会议提供中英文同声传译

With simultaneous English and Chinese interpretation

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2022年8月1日
重庆国际博览中心
路演展区 N5G63

1 August, 2022
Chongqing International Expo Center
Ozone2Climate Roadshow Booth # N5G63

日程

13:00-13:30 注册

开幕式

主持人：郭晓林，副处长，生态环境部对外合作与交流中心

13:30-14:00 致辞

李永红，副主任，生态环境部对外合作与交流中心
董文福，处长，生态环境部大气环境司
Mr. James S. Curlin，负责人，联合国环境署法律司臭氧行动
乔展，驻华副代表，UNDP
张朝晖，副理事长兼秘书长，中国制冷空调工业协会

第一部分 《蒙特利尔议定书》实施进展

主持人：陈敬良，副秘书长，中国制冷空调工业协会

14:00-14:15 工商制冷空调行业 HCFCs 淘汰战略及基加修正案履约工作展望

李雄亚，室主任，生态环境部对外合作与交流中心

14:15-14:30 亚太地区采用 O2C 技术的政策和技术挑战
胡少锋，高级区域协调员，联合国环境署亚太办

14:30-14:45 基加利修正案的实施与工商制冷行业的效率
安德森，亚太地区协调员，联合国开发计划署

14:45-15:00 讨论

第二部分 臭氧气候技术应用经验分享

主持人：滑雪，高级项目官员，生态环境部对外合作与交流中心

15:00-15:15 制冷空调行业替代技术发展现状与趋势

张朝晖，副理事长兼秘书长，CRAA

15:15-15:30 泰国 CO₂ 替代技术的应用现状与挑战
Dr. Apichit Lumlertpongpana，泰国空调制冷联合会

15:30-15:45 欧洲绿色高效制冷法规与技术进展
Mr. Folker Franz，秘书长，欧洲能源与环境协会

15:45-16:00 日本环境政策及制冷空调行业面临的问题与对策
Mr. Tetsuji Okada，秘书长，日本冷冻空调工业协会

16:00-16:15 讨论



AGENDA

13:00-13:30 Registration

Opening Ceremony

Moderated by Ms. Guo Xiaolin, Deputy Division Chief of MP, FECO

13:30-14:00 Opening Remarks

Mr. Li Yonghong, Deputy Director General, Foreign Environmental Cooperation Center, Ministry of Ecology and Environment (FECO)
Mr. Dong Wenfu, Division Chief of Ozone Layer Protection, Department of Atmospheric Environment, Ministry of Ecology and Environment
Mr. James S. Curlin, Head, OzonAction Branch, Law Division, UNEP
Mr. James George, Deputy Resident Representative, UNDP China
Mr. Zhang Zhaohui, Vice Chairman & Secretary General, CRAA

Session-I: Progress in the Implementation of the Montreal Protocol

Moderated by Mr. Chen Jingliang, Deputy Secretary General, CRAA

14:00-14:15 HCFCs Phase-out Strategy in ICR Sector and Prospects for the Implementation of Kigali Amendment

Ms. Li Xiongya, Section Chief, FECO

14:15-14:30 Policy and Technology Challenges for Adopting O2C Technologies in Asia Pacific
Mr. Hu Shaofeng, Senior Montreal Protocol Regional Coordinator, OzonAction, UNEP Asia and the Pacific

14:30-14:45 The Kigali Amendment Implementation and Energy Efficiency in ICR Sector
Mr. Anderson Moreira do Vale Alves, Regional Coordinator for Asia-Pacific - Montreal Protocol Unit, UNDP

14:45-15:00 Discussion

Session-II: Experience Sharing of Ozone2Climate Technology Application

Moderated by Ms. Hua Xue, Senior Project Officer, FECO

15:00-15:15 Development and Trend of Alternative Technologies for R&AC Industry
Mr. Zhang Zhaohui, Vice Chairman & Secretary General, CRAA

15:15-15:30 CO₂ Technology Adoption Situation and Challenges in Thailand
Dr. Apichit Lumlertpongpana, Thai Federation of Air-Conditioning and Refrigeration

15:30-15:45 Green and High-Efficient Cooling Technology and Regulations in Europe
Mr. Folker Franz, Director General, European Partnership for Energy and the Environment (EPEE)

15:45-16:00 Environmental Policy in Japan and Issues and Responses in the Refrigeration and Air Conditioning Industry
Mr. Tetsuji Okada, President, The Japan Refrigeration and Air Conditioning Industry Association

16:00-16:15 Discussion

2022年8月2日
重庆国际博览中心
路演展区 N5G63

2 August, 2022
Chongqing International Expo Center
Ozone2Climate Roadshow Booth # N5G63

日程

9:00–9:30 注册

第一部分 绿色、高效空调技术

主持人：洪云，项目主任，联合国开发计划署中国办公室

9:30–9:45 低 GWP 制冷剂工商制冷空调产业化开发与应用
熊建国，商用空调技术部副部长，珠海格力电器股份有限公司

9:45–10:00 中国制冷空调能效标准制修订进展与展望
成建宏，研究员，中国标准化研究院

10:00–10:15 大中型冷水机组的制冷剂替代研究
吴晶晶，研发中心副主任，麦克维尔空调制冷(武汉)有限公司

10:15–10:30 讨论

第二部分 绿色、高效、安全冷链技术

主持人：邢子文，教授，西安交通大学

10:30–10:45 高品质安全低碳冷链体系构建
田长青，研究员，中国科学院理化技术研究所

10:45–11:00 CO₂ 制冰技术及其应用
田华，教授，天津大学

11:00–11:15 涉氨法规及氨的安全应用措施
赵宝国，总裁，冰轮环境技术股份有限公司

11:15–11:30 (小型化) NH₃ 半封闭螺杆压缩机的开发与应用
陈炜，市场管理部总监，福建雪人股份有限公司

11:30–11:45 二氧化碳涡旋压缩机技术及其在冷凝机组中的应用
慎世珍，亚太区工程副总裁，艾默生环境优化技术(苏州)有限公司

11:45–12:00 讨论

12:00–12:30 《R513A 制冷剂在螺杆式冷水(热泵)机组中的适用性研究》发布



AGENDA

9:00–9:30 Registration

Session-I: Green, Efficient Air Conditioning Technology

Moderated by Dr. Hong Yun, Programme Director, UNDP China

9:30–9:45 Industrial Development and Application of Low GWP Refrigerant in Industrial and Commercial Air Conditioning
Mr. Xiong Jianguo, Vice General Manager, GREE Electric Appliances, Inc. of Zhuhai

9:45–10:00 Progress of Energy Efficiency Standards for Refrigeration and Air Conditioning in China
Prof. Cheng Jianhong, China National Institute of Standardization

10:00–10:15 Study on Refrigerant Substitution for Medium and Large Chillers
Mr. Wu Jingjing, Deputy Director of R&D Department, McQuay Air-conditioning & Refrigeration (Wuhan) Co., Ltd.

10:15–10:30 Discussion

Session-II: Green, Efficient and Safe Cold Chain Technology

Moderated by Prof. Xing Ziwen, Xi'an Jiaotong University

10:30–10:45 The Construction of High Quality, Safety, and Low Carbon Cold Chain
Prof. Tian Changqing, Technical Institute of Physics and Chemistry, Chinese Academy of Sciences

10:45–11:00 CO₂ Ice Making Technology and Its Applications
Prof. Tian Hua, Tianjin University

11:00–11:15 Ammonia-Related Regulations and Measures for the Safe Application of Ammonia
Mr. Zhao Baoguo, Chief Executive Officer, Moon Environment Technology Co., Ltd.

11:15–11:30 (Miniaturized) Ammonia Semi-Hermetic Screw Compressor Development and Application
Mr. Chen Wei, Director, Fujian Snowman Co., Ltd.

11:30–11:45 CO₂ Scroll Compressor Technologies and Condensing Unit Application
Ms. Candy Shen, Vice President-Asia Engineering, Emerson Climate Technologies (Suzhou) Co., Ltd.

11:45–12:00 Discussion

12:00–12:30 Release of Research on the Applicability of R513A in Water Chilling (Heat Pump) Packages with Screw Compressor

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路演展区 N5G63

2 August, 2022
Chongqing International Expo Center
Ozone2Climate Roadshow Booth # N5G63

日程

13:00-13:30 注册

第一部分 维修行业计划与标准

主持人：史琳，教授，清华大学

13:30-13:45 制冷维修行业 HCFCs 淘汰进展和减排潜力
滑雪，高级项目官员，生态环境部对外合作
与交流中心

13:45-14:00 加强制冷剂回收，助力碳减排
胡俊杰，高级工程师，生态环境部固体废物
与化学品管理技术中心

14:00-14:15 《使用可燃或高压制冷剂制冷空调设备维修
培训场所及设施建设规范》解读
徐言生，教授，顺德职业技术学院

14:15-14:30 《单元式空气调节机维修保养技术规范》的
解读与发布
刘璐璐，副主任，中国制冷空调工业协会

14:30-14:45 讨论

第二部分 维修良好操作实践

主持人：李红旗，教授，北京工业大学

14:45-15:00 售后维修管理与减排效益
方理想，高级工程师，南京天加环境科技有
限公司

15:00-15:15 CO₂ 制冷剂应用的培训体系介绍
马松，产品市场和技术方案经理，比泽尔制
冷技术（中国）有限公司

15:15-15:30 重庆地区制冷维修行业良好操作培训实践探
索
刘友林，校长，重庆工商学校

15:30-15:45 双碳目标和安全目标对制冷空调行业从业人
员职业素养的要求
吴治娟 秘书长，重庆市制冷学会

15:45-16:00 讨论



AGENDA

13:00-13:30 Registration

Session-I: Plans and Standards in Servicing Sector

Moderated by Prof. Shi Lin, Tsinghua University

13:30-13:45 Progress of the HPMP Implementation in
Servicing Sector of China

Ms. Hua Xue, Senior Project Officer, Foreign
Environmental Cooperation Center, Ministry
of Ecology and Environment (FECO)

13:45-14:00 Strengthening Refrigerant Recovery to
Help Reduce Carbon Emissions

Ms. Hu Junjie, Senior Engineer, China Solid
Waste and Chemicals Management
Technology Center

14:00-14:15 Interpretation of Specification for
Construction of Maintenance Training
Places and Facilities for Refrigeration and
Air Conditioning Equipment Using
Flammable or High-Pressure Refrigerants

Prof. Xu Yansheng, Shunde Polytechnic

14:15-14:30 Interpretation and Release of Technical
Specification for Repair and Maintenance of
Unitary Air Conditioner

Ms. Liu Lulu, Deputy Director, CRAA

14:30-14:45 Discussion

Session-II: Good Practice in Servicing Sector

Moderated by Prof. Li Hongqi, Beijing University of Technology

14:45-15:00 After-sales Maintenance Management and
Emission Reduction Benefits

Mr. Fang Lixiang, Senior Engineer, Nanjing
TICA Climate Solutions Co., Ltd.

15:00-15:15 Introduction of Training System for CO₂
Application

Ms. Ma Song, Product Marketing and
Technology Solution Manager, BITZER
Refrigeration Technology (China) Co., Ltd.

15:15-15:30 Exploration of Good Operation Training
Practice in Refrigeration Maintenance
Industry in Chongqing Area

Mr. Liu Youlin, School Principals, Chongqing
Business School

15:30-15:45 Requirements of Double Carbon Goal and
Safety Goal on Professional Quality of
Employees in Refrigeration and Air
Conditioning Industry

Ms. Wu Zhijuan, Secretary General,
Chongqing Institute of Refrigeration

15:45-16:00 Discussion