

IAEE ASIAN / ASIA-OCEANIA CONFERENCE — EIGHTH EDITION

Energy Transitions in an Uncertain World

能源转型 · 风险与韧性



August 7 – 9, 2026

Qingdao Haidu Hotel · 青岛海都大酒店
Huangdao District, Qingdao, China

Detailed Conference Program

Welcome

The 8th IAEE Asian / Asia-Oceania Conference brings together researchers, policymakers and industry leaders working across energy economics, climate policy and the low-carbon transition. Over three days at the Qingdao Haidu Hotel, the program moves from plenary keynotes to twenty parallel research sessions spanning carbon markets, renewable deployment, AI and the energy sector, transport electrification, and global energy geopolitics.

This booklet sets out the full schedule: the plenary program for all three days, the complete parallel-session paper listings for Session A and Session B, practical notes on meals and logistics, the weather outlook, contact details for the organizing committee, and hotel & transport guidance for reaching the venue.

Contents

Plenary Schedule — Friday	03
Plenary Schedule — Saturday	03
Plenary Schedule — Sunday	04
Parallel Sessions — Index	05
Session A1 – A10, Full Program	06
Session B1 – B10, Full Program	09
General Reminders & Weather	13
Conference Contacts	13
Hotel & Getting There	14
Venue Floor Guide	15

DAY ONE

Friday, August 7

08:30–21:00

- **Registration**

Lobby

17:00–18:00

- **PhD Session**

Prof. Xiaoli Zhao (China University of Petroleum, Beijing) · Prof. Jianzhong Xiao (China University of Geosciences, Wuhan) · Prof. Mingming Zhang (China University of Petroleum, East China)

Meeting Room 3 (3rd Floor)

18:00–20:00

- **Dinner (Buffet)**

Mengyue Western Restaurant (1st Floor)

DAY TWO

Saturday, August 8

08:30–09:00

- **Opening Ceremony**

Welcome remarks from Prof. Gang Wu (NSFC), Prof. Peng Zhou (Vice-President, CUP East China) and Prof. Ying Fan (IAEE President-Elect, Beihang University)

Prof. Chunguang Bai · Qianyue Hall (4th Floor)

09:00–09:40

- **Keynote Speech I**

Global Energy Markets in Risk Environments: A Perspective of Artificial Intelligence — Prof. Witold Pedrycz, University of Alberta

Prof. Yang Bai · Qianyue Hall (4th Floor)

09:40–10:20

- **Keynote Speech II**

Climate Policy Based on Equity, Economic Self-Interest, and Cross-National Learning — Prof. Lucas Bretschger, ETH Zurich

Prof. Lin Zhang · Qianyue Hall (4th Floor)

10:20–10:40	● <i>Tea Break</i> 4th Floor
10:40–11:20	● Keynote Speech III Securing the Transition, Sharing the Gains: A Multidimensional Assessment of China's Path to Carbon Neutrality — President Zhen Wang, CNOOC Energy Economic Institute Prof. Xiaoli Zhao · Qianyue Hall (4th Floor)
11:20–12:00	● Keynote Speech IV Building Life Cycle Data Infrastructure for a Sustainable Transition — Prof. Ming Xu, Tsinghua University Prof. Ning Liu · Qianyue Hall (4th Floor)
12:00–13:30	● Lunch (Buffet) Mengyue Western Restaurant (1st Floor)
13:30–15:30	● Session A Parallel Session A1–A10 Session Halls — 3F & 4F
15:30–15:50	● <i>Tea Break</i> 3rd Floor
15:50–17:50	● Session B Parallel Session B1–B10 Session Halls — 3F & 4F
17:30–20:00	● Dinner (Buffet) Mengyue Western Restaurant (1st Floor)

DAY THREE

Sunday, August 9

08:30–09:10	● Keynote Speech V The Local Consequences of the Cloud: Data Centers, Housing Markets, and Grid Resilience — Prof. Yueming Qiu, University of Maryland College Park Prof. Jing Liang · Qianyue Hall (4th Floor)
09:10–09:50	● Keynote Speech VI Building a Regenerative Mindset for Nature-Positive Energy Supply Chains — Prof. Joseph Sarkis, Worcester Polytechnic Institute Prof. Hui Wang · Qianyue Hall (4th Floor)
09:50–10:10	● <i>Tea Break</i> 4th Floor
10:10–10:50	● Keynote Speech VII Driving Energy Security Through Transport Electrification: The Strategic Role of Emerging Economies — President Haluk Sayar, Eurasian E-Mobility Association Prof. Hongyan Zhang · Qianyue Hall (4th Floor)
10:50–11:50	● Young Scholars Roundtable Forum Prof. Lin Zhang (City University of Hong Kong) · Prof. Jing Liang (Harbin Institute of Technology) · Prof. Baichen Xie (Tianjin University) · Prof. Yang Xie (Beihang University) Prof. Lin Zhang · Qianyue Hall (4th Floor)
11:50–12:10	● Best Paper Award & Closing Ceremony Closing remarks — Prof. Chunguang Bai Prof. Yang Bai · Qianyue Hall (4th Floor)
12:10–14:00	● Lunch (Buffet) Mengyue Western Restaurant (1st Floor)

Session rooms, chairs and full paper listings for Session A (Saturday 13:30–15:30) and Session B (Saturday 15:50–18:10 / 17:50) are set out on the following pages.

Session A

13:30 – 15:30, Saturday



A1 Energy Transition and Industrial Policy Innovation 能源转型与产业政策创新 Heyue Hall (3rd Floor) · Chair: Jing Liang	A2 Resource-Environmental Effects and Supply Chain Security 资源环境效应与供应链安全 Meeting Room 1 (3rd Floor) · Chair: Yao Yao
A3 Carbon Market Mechanisms and Transition Risks 碳市场机制与转型风险 Meeting Room 2 (3rd Floor) · Chair: Meiyu Guo	A4 Renewable Energy Deployment and Power Markets 可再生能源部署与电力市场 Meeting Room 3 (3rd Floor) · Chair: Peipei Chen
A5 Infrastructure Governance and Energy Security Transition 基础设施与能源安全转型 Meeting Room 5 (3rd Floor) · Chair: Qiang Tu	A6 Climate Risk and Energy Transition Resilience 气候风险与能源转型韧性 Meeting Room 6 (3rd Floor) · Chair: Wenjun Wang
A7 Transport Energy Transition and Electrification Pathways 交通能源转型与电动化路径 Meeting Room 7 (3rd Floor) · Chair: Jihyo Kim	A8 Low-Carbon Transition and Policy Synergies 低碳转型与政策协同 Meeting Room 8 (3rd Floor) · Chair: Wei Jin
A9 Global Energy Governance and Geopolitical Dynamics 全球能源治理与地缘博弈 Meeting Room 828 (4th Floor) · Chair: Yunfei An	A10 AI and Green Innovation Drivers 人工智能与绿色创新驱动 Meeting Room 838 (4th Floor) · Chair: Yunqiu Qiu

Session B

15:50 – 18:10, Saturday



B1 Carbon Emission Governance and Regional Coordinated Development 碳排放治理与区域协调发展 Heyue Hall (3rd Floor) · Chair: Shuai Che	B2 Carbon Footprint and Supply Chain Risks 碳足迹与供应链风险 Meeting Room 1 (3rd Floor) · Chair: Wenhao Hu
B3 Climate Finance and Emissions Trading 气候投融资与排放权交易 Meeting Room 2 (3rd Floor) · Chair: Chenchen Song	B4 Low-Carbon Energy Technologies and Power Market Optimization 低碳能源技术与电力市场优化 Meeting Room 3 (3rd Floor) · Chair: Shihong Zeng
B5 ESG Governance and Sustainable Investment ESG治理与可持续投资 Meeting Room 5 (3rd Floor) · Chair: Fan Tong	B6 Climate Adaptation Strategies and Resilience Governance 气候适应策略与韧性治理 Meeting Room 6 (3rd Floor) · Chair: Ruhang Xu
B7 NEV Industry and Policy Simulation 新能源汽车产业与政策仿真 Meeting Room 7 (3rd Floor) · Chair: Xiaoli Zheng	B8 Energy and Environmental Governance and Just Transition 能源环境治理与公正转型 Meeting Room 8 (3rd Floor) · Chair: Chao Hua
B9 Energy Geopolitics and Supply Chain Analysis 能源地缘政治与供应链分析 Meeting Room 828 (4th Floor) · Chair: Wenya Wang	B10 AI and Digitalization in the Energy Sector 人工智能与能源产业数字化 Meeting Room 838 (4th Floor) · Chair: Xueqi Zhai

Session A



Energy Transition and Industrial Policy Innovation

能源转型与产业政策创新

August 8, 13:30–15:30 · Heyue Hall (3rd Floor) · Chair: Jing Liang — Harbin Institute of Technology

TIME	SPEAKER	PAPER
13:30-13:50	Jing Liang Harbin Institute of Technology	Waste Sorting and End-of-Pipe Emission Reductions in the Waste-to-Energy Sector
13:50-14:10	Yi Zheng Chinese Academy of Sciences	Pricing Waste Disposal for A Sustainable Waste-to-Energy Transition in China
14:10-14:30	Hongyang Zou Tianjin University	Adaptive Investment Behaviours Enable Earlier Carbon Peak in Low-Carbon Electricity Transition
14:30-14:50	Yuanan Li Yan'an University	Can Undertaking Industrial Transfer Empower the Development of New Quality Productivity in Cities? —A Quasi Natural Experiment Based on The National Demonstration Zone for Undertaking Industrial Transfer
14:50-15:10	Bowen Guo Xi'an Jiaotong University	When Low Carbon Need Not Mean Lower Cooling Needs: Unequal Carbon Responses to Heat in China
15:10-15:30	Yongchen Guo China University of Petroleum (East China)	Energy Transition Pathways for Inland Waterway Transport Under the Yangtze River Protection Strategy: A Policy and Technology Framework From Wuhan Port, China

Session A



Resource-Environmental Effects and Supply Chain Security

资源环境效应与供应链安全

August 8, 13:30-15:30 · Meeting Room 1 (3rd Floor) · Chair: Yao Yao — Shanghai Lixin University of Accounting and Finance

TIME	SPEAKER	PAPER
13:30-13:50	Yao Yao Shanghai Lixin University of Accounting and Finance	Automatic Air Quality Monitoring and Unintended Water Pollution: Evidence From China
13:50-14:10	Parag Dass National University of Singapore	A Comparative Assessment of Clean Energy Competitiveness in ASEAN
14:10-14:30	Diana Mosneanu La Ligne Fine Institute	Beyond Supply Concentration: Governance Capacity and Critical Mineral Security in Global Gallium Supply Chains
14:30-14:50	Danwan Xu Yan'an University	Does High Energy-Consuming Industry Transfer Drive Regional Energy Transition? Evidence From Transmission Mechanisms and a Green Innovation Threshold
14:50-15:10	Xingyong Li Beijing Normal University	Environmental Impacts and Recycling Potential of Renewable Energy Technologies in Large-Scale Clean Energy Bases: A Life Cycle Assessment Perspective
15:10-15:30	Yujia Ding China University of Petroleum (East China)	Optimization of Intermittent Production Scheduling for Tight Gas Wells

Session A

A3

Carbon Market Mechanisms and Transition Risks

碳市场机制与转型风险

August 8, 13:30–15:30 · Meeting Room 2 (3rd Floor) · Chair: Meiyu Guo — Hong Kong Baptist University

TIME	SPEAKER	PAPER
13:30-13:50	Meiyu Guo Hong Kong Baptist University	Methane Challenges and Carbon Sequestration Opportunities in China's Shale Gas Development
13:50-14:10	Yike Liu Beihang University	Carbon Tax, Green Credit, and Financial Stability: A Macro-Financial Analysis Based on the SFC Model
14:10-14:30	Mengtian Xue China Agricultural University	Narrowing the Potential–Deployment Gap in Rural Distributed Photovoltaics: Integrated Theoretical Framework and Heterogeneous Evidence From North China
14:30-14:50	Zhou Yao Beihang University	Optimal Carbon Market Regimes Under Technological Uncertainty: A Bilevel Reinforcement Learning Approach
14:50-15:10	Hsu Issac Qingdao Huanghai University	Sprinting to the Target: Threshold Assessment, Campaign-Style Abatement, and the Option Design of Carbon Evaluation Systems
15:10-15:30	Meiling Wang China University of Petroleum (East China)	Resilience of the Global Crude Oil Maritime Trade Network Under Tropical Cyclone Shocks: Evidence From AIS Data

Session A



Renewable Energy Deployment and Power Markets

可再生能源部署与电力市场

August 8, 13:30–15:30 · Meeting Room 3 (3rd Floor) · Chair: Peipei Chen — City University of Hong Kong

TIME	SPEAKER	PAPER
13:30-13:50	Peipei Chen City University of Hong Kong	Implementation Gap in Global Power Capacity Expansion to Meet Paris Agreement Climate Targets
13:50-14:10	Chang Wang Monash University	Co-Optimizing Green Ammonia and Iron Production in Shared Renewable Hydrogen Hubs: Flexibility, Synergies and Cost Allocation
14:10-14:30	Jiaxin Li Chinese Academy of Sciences	Research on Photovoltaic Power Generation Technology Selection and Spatial Deployment Optimization Under the Real-Time Pricing Mechanism of the Electricity Market
14:30-14:50	Jinghong Jiang Harbin Institute of Technology	Does Industrial Agglomeration Promote Development of Energy Storage? Evidence From the Registration of Energy Storage Projects in China
14:50-15:10	Yuhao Ma China University of Petroleum (Beijing)	Power Transmission Infrastructure and the Clean Energy Transition: Plant-Level Evidence From China's Ultra-High-Voltage Network
15:10-15:30	Runfei An China University of Petroleum (East China)	Annual Medium- and Long-Term and Spot Electricity Trading Strategies for New Energy Power Generation Enterprises

Session A



Infrastructure Governance and Energy Security Transition

基础设施与能源安全转型

August 8, 13:30–15:30 · Meeting Room 5 (3rd Floor) · Chair: Qiang Tu — Tianjin University of Finance and Economics

TIME	SPEAKER	PAPER
13:30–13:50	Qiang Tu Tianjin University of Finance and Economics	Can Green Finance Deliver Clean Computing Power? Evidence From Renewable Energy Consumption and Computing Infrastructure in China
13:50–14:10	King Yoong Lim Xi'an Jiaotong-Liverpool University	Transboundary Induced Innovation Effect of Chinese Border Non-Renewable Energy Infrastructure in a South-South Context: Theory and Firm-Level Evidence
14:10–14:30	Yuhang Gao Beijing Normal University	
14:30–14:50	Soobin Cho Independent Researcher	What States Choose Not to See: Measurement Asymmetry and Energy-Security Governance of AI Data Centers
14:50–15:10	Yiran Zhang Tianjin University of Finance and Economics	Green Insurance and New Quality Productive Forces: A Study Based on the Indirect Spillover Effects of Environmental Pollution Liability Insurance
15:10–15:30	Mingdong Li China University of Petroleum (East China)	The Impact of Water Resource "Fee-to-Tax" Reform on Long-Term Financing Constraints of High-Water-Consumption Enterprises: An Empirical Study Based on a Staggered Difference-in-Differences Approach

Session A



Climate Risk and Energy Transition Resilience

气候风险与能源转型韧性

August 8, 13:30–15:30 · Meeting Room 6 (3rd Floor) · Chair: Wenjun Wang — Hong Kong University of Science and Technology (Guangzhou)

TIME	SPEAKER	PAPER
13:30-13:50	Wenjun Wang	AI Adoption, Carbon Intensity, and Rebound Effect: Evidence From China
13:50-14:10	Somya Srivastava Indian Institute of Technology Delhi	Develop or Decarbonize? Rethinking India's Net-Zero Pathways Through Participatory Scenario Development
14:10-14:30	Muxin Sun Xinjiang University	Dynamic Responses and Enhancement Pathways of Corporate Export Resilience Under Climate Risk Shocks: An Empirical Examination Based on Text Mining and Machine Learning
14:30-14:50	Shengzhe Ruan China University of Geosciences (Wuhan)	Synergistic Mechanism Design Between Carbon Emission Dual Control and Green Credit in Energy Transition: A Policy Simulation Study Based on an E-DSGE Model
14:50-15:10	Shaojie Hou Huazhong University of Science and Technology	Supply Chain Efficiency in the Face of Climate-Related Physical Risks
15:10-15:30	Bing Tan China University of Petroleum (East China)	Impacts of Extreme Compound Disasters on Urban Thermal Power Reserves in China

Session A



Transport Energy Transition and Electrification Pathways

交通能源转型与电动化路径

August 8, 13:30–15:30 · Meeting Room 7 (3rd Floor) · Chair: Jihyo Kim — Korea Advanced Institute of Science and Technology

TIME	SPEAKER	PAPER
13:30–13:50	Jihyo Kim Korea Advanced Institute of Science and Technology	EV Charging Flexibility in a Regional Energy Transition: Evidence From South Korea
13:50–14:10	Akhil Chauhan IIT Delhi	Navigating the Dual Challenge of Energy Security and Decarbonisation: Integrated Assessment of India's Transport Transition Under Alternative Policy Pathways
	Tianrui Zhang Beihang University	Toward a Low-Carbon Future: An Integrated Assessment of Long-Term Transition Pathways for China's Civil Aviation
	Yuxuan Niu Ocean University of China	Nudging Smart Mobility: How Information Frameworks Influence the Acceptance of Autonomous Electric Vehicles
15:10–15:30	Yun Jiang China University of Petroleum (East China)	Industrial Linkage and Ripple Effects of the Electric Vehicle Industry: An Input-Output Analysis

Session A



Low-Carbon Transition and Policy Synergies

低碳转型与政策协同

August 8, 13:30–15:30 · Meeting Room 8 (3rd Floor) · Chair: Wei Jin — Nanjing University of Aeronautics and Astronautics

TIME	SPEAKER	PAPER
13:30-13:50	Wei Jin Nanjing University of Aeronautics and Astronautics	Policy Complementarity in the Low-Carbon Transition: Carbon Pricing Meets Green Finance
13:50-14:10	George Verikios Commonwealth Scientific and Industrial Research Organisation	The 2026 Middle East Energy Shock: An Economywide Assessment for Asia and the World
14:10-14:30	Haowen Dong Harbin Institute of Technology	Do Information Nudges Still Matter in the AI Era? Evidence on Energy Retrofit Decisions in Rural China
14:30-14:50	Letong Li The Chinese University of Hong Kong, Shen Zhen	Emerging Nuclear Technologies, Geopolitical Fragmentation, and the Transformation of Nuclear Governance
14:50-15:10	Fanzhen Meng China University of Geosciences (Wuhan)	Land-Sea Integrated Allocation of Critical Mineral
15:10-15:30	China University of Petroleum (East China)	Temporal and Spatial Evolution of Carbon Emissions From the Global LNG Shipping Network and Analysis of Its Emission Reduction Potential: Based on the Perspective of Two-Tier Network

Session A



Global Energy Governance and Geopolitical Dynamics

全球能源治理与地缘博弈

August 8, 13:30–15:30 · Meeting Room 828 (4th Floor) · Chair: Yunfei An — China University of Petroleum (East China)

TIME	SPEAKER	PAPER
13:30–13:50	Michael Pavlin Wilfrid Laurier University	Market Integration in U.S. Natural Gas: The Role of Pipeline Contracting and LNG Export Demand
13:50–14:10	Zhengjian Xiang CNPC Economics and Technology Research Institute	The Impact of the Turmoil in the Middle East on Global Energy Trends
14:10–14:30	Jinchao Li China University of Petroleum (East China)	Long-Term Deployment Optimization of a Power-Hydrogen Coupled System Considering Endogenous Learning
14:30–14:50	Hongwei Liu Harbin Institute of Technology	Strait Geopolitical Risks and Regional Uncertainty Costs: Evidence From Crude-Refined Oil Crack Spreads
14:50–15:10	Gizachew Gedefie China University of Geosciences (Beijing)	Structural Carbon Externalization in Global Value Chains: Integrating Decomposition and Tier-Resolved Path Analysis of Production–Consumption Emissions
15:10–15:30	Yueqi Fan China University of Petroleum (East China)	Common Exposure and Risk Transmission in Global Oil–Gas Multiplex Trade Networks Under Geopolitical Shocks

Session A



AI and Green Innovation Drivers

人工智能与绿色创新驱动

August 8, 13:30-15:30 · Meeting Room 838 (4th Floor) · Chair: Yunqiu Qiu — Ocean University of China

TIME	SPEAKER	PAPER
13:30-13:50	Baofeng Zhang Xi'an University of Science and Technology	How Can the Synergy of Computing-Electricity Collaboration and Artificial Intelligence Policies Enhance an Enterprise's Energy and Environmental Performance? — A Quasi-Natural Experiment Based on Multi-Period DID and DML
13:50-14:10	Yihang Chen Harbin Institute of Technology	The Impact of AI Innovation and Application Pilot Zones on Corporate Green Disruptive Innovation
14:10-14:30	Yahui Guo Ocean University of China	The Trade-Off in Presentation: How One-Sided Versus Two-Sided Information Disclosure Influences V2G Acceptance
14:30-14:50	Dayu Wan Nanjing University of Aeronautics and Astronautics	How Urban Computing Power Deployment Drives Renewable Energy Technology Innovation in China
14:50-15:10	Jie Dong China University of Petroleum (East China)	How Supplier Volatility Affects Disruptive Technological Innovation in Energy Firms: Evidence From China
15:10-15:30	Keqing Liu China University of Petroleum (East China)	The Impact of Synergy Between Transition Finance and Green Finance on Energy Transition

Session B



Carbon Emission Governance and Regional Coordinated Development

碳排放治理与区域协调发展

August 8, 15:50-18:10 · Heyue Hall (3rd Floor) · Chair: Shuai Che — Zhengzhou University

TIME	SPEAKER	PAPER
15:50-16:10	Yuanyuan Hu Zhengzhou University	Digital Transition of Leading Enterprises and Dual Control of Carbon Emissions in Supply Chains: From the Perspective of Asymmetric Spillover Between Upstream and Downstream Sectors
16:10-16:30	Chenjing Gou Huazhong University of Science and Technology	How Does Ecological Conservation Reduce Carbon Intensity? Evidence From China's National Key Ecological Function Zones
16:30-16:50	Junwei Meng Tianjin University	Coupling Coordination of China's Power Systems Under Energy Transition: Spatial Evolution, Neighborhood Effects and Driving Mechanisms
16:50-17:10	Junjun Zhang Beijing Normal University	The Impact of Coordinated Development Policy on the Pressure of Water and Land Resources in the Beijing-Tianjin-Hebei Urban Agglomeration of China
17:10-17:30	Li Zeng Henan Polytechnic University	Energy Transition Risk and Economic Resilience in Resource Economies: A Global Comparative Analysis
17:30-17:50	Qiang Li City University of Hong Kong	The Impacts of Carbon Regulation on Energy Transition in China
17:50-18:10	Jiadou Pei China University of Petroleum (East China)	Does Firm Carbon Neutrality Performance Improve Audit Quality?

Session B



Carbon Footprint and Supply Chain Risks

碳足迹与供应链风险

August 8, 15:50–18:10 · Meeting Room 1 (3rd Floor) · Chair: Wenhao Hu — Tianjin University

TIME	SPEAKER	PAPER
15:50–16:10	Wenhao Hu Tianjin University	Market Liberalization, Price Regulation, and Coal-Cost Pass-Through in China’s Electricity Markets
16:10–16:30	Hao Li Beijing Institute of Technology	Evolution of Critical-Metal Footprints and Supply Risks in Global Road Transport Under the Low-Carbon Transition
16:30–16:50	Mengmeng Duan Nanjing University of Aeronautics and Astronautics	Credit Constraints, Carbon Markets, and Technological Transition: A Multi-Agent Study of Green Finance Policies Under Emissions Trading Systems
16:50–17:10	Wenhao Fu Yan'an University	Carbon Footprint Accounting in Coal Tar Production Based on Life Cycle Assessment
17:10–17:30	Xingxing Duan Tianjin University	Economic and Environmental Trade-Offs of Localized Green Hydrogen Production for China’s Hard-to-Abate Sectors
17:30–17:50	Fangzhou Dai The University of Tokyo	Fleet Electrification and Critical Mineral Logistics: A System-Wide Energy Efficiency Assessment for China
17:50–18:10	Zhiao Zuo China University of Petroleum (East China)	Identification of Key Sectors of China’s Energy Consumption and CO2 Emissions Based on Associative Networks

Session B

B3

Climate Finance and Emissions Trading

气候投融资与排放权交易

August 8, 15:50–17:50 · Meeting Room 2 (3rd Floor) · Chair: Chenchen Song — Beijing Information and Technology University

TIME	SPEAKER	PAPER
15:50–16:10	Chenchen Song Beijing Information and Technology University	Computing Infrastructure Policy and Carbon Emission Intensity in China: Evidence From the East Data–West Computing Strategy
16:10–16:30	Xing Yu University of Chinese Academy of Sciences	When Permit Prices Are Not Enough: Flexible Emissions Caps Under Multidimensional Uncertainty
16:30–16:50	Xinya Hao City University of Hong Kong	Leakage Channels Limit the Effectiveness of Global Exits From Overseas Coal-Fired Power Finance
16:50–17:10	Yihang Sun Chinese Academy of International Trade and Economic Cooperation	Bilevel Optimization of China's Provincial Carbon Quota Allocation: Budget Constraints, Market Coverage, and Carbon-Price Risk
17:10–17:30	Shuo Fang Beihang University	Influence of the Cap-and-Trade Policy on Green Technology Investment in Supply Chain Considering Sale Market and Carbon Market Risk Correlation
17:30–17:50	Jialu Guo China University of Petroleum (East China)	Fleet Deployment and Profit Allocation of Shipping Alliances Based on Cooperative Game Theory

Session B



Low-Carbon Energy Technologies and Power Market Optimization

低碳能源技术与电力市场优化

August 8, 15:50–17:50 · Meeting Room 3 (3rd Floor) · Chair: Shihong Zeng — Beijing University of Technology

TIME	SPEAKER	PAPER
15:50–16:10	Shihong Zeng Beijing University of Technology	Green Finance as a Driver of the Metallurgical Industry's Green Transformation Under Carbon Neutrality Goals
16:10–16:30	Wenpei Yang China University of Geosciences (Wuhan)	Electrochemical Energy Storage Technology Substitution Under Critical Metals Availability Constraints May Increase Lifecycle Emissions in Carbon-Neutral Power Systems
16:30–16:50	Yubing Bai China University of Petroleum (Beijing)	The Impact of Regional Integration Policies on Regional Renewable Energy Utilization
16:50–17:10	Yukun Zhong Beihang University	Multidimensional CCS Feasibility Reshapes Steel–Hydrogen–Power Transitions in China's 1.5°C Pathway
17:10–17:30	Zhang Yining Nanjing University of Aeronautics and Astronautics	Bi-Level Optimization Model of Inter-Provincial Medium and Long-Term Power Trading for Improving Utilization Rate of UHV Corridors
17:30–17:50	Yuhao Yuan China University of Petroleum (East China)	A Game-Theoretic Optimization Strategy for Shared Energy Storage Considering the Integration of Ancillary Resource Under Source-Load Uncertainty

Session B



ESG Governance and Sustainable Investment

ESG治理与可持续投资

August 8, 15:50–18:10 · Meeting Room 5 (3rd Floor) · Chair: Fan Tong — Beihang University

TIME	SPEAKER	PAPER
15:50–16:10	Jinyu Yuan Tech University of Korea	From Subsidies to Market Discipline: Technological Innovation and Firm Performance in China's Solar Photovoltaic Industry
16:10–16:30	Yihang Gao Xinjiang University	How Does the New Energy Demonstration City Policy Reshape Corporate Green Innovation
16:30–16:50	Yujun Huang University Paris Dauphine - PSL	Strategic Asset Allocation Under Global Warming
16:50–17:10	Xiao Li Hubei University of Economics	Fiscal and Tax Policies, Resource Superposition and New Energy Vehicle Enterprise Innovation: An Empirical Study Based on Policy Synergy Theory
17:10–17:30	Junyan Tang City University of Hong Kong	Media Scrutiny and ESG Greenwashing in Energy-Intensive Industries: The Supervision Paradox
17:30–17:50	Zhiwen Xiao Jiangxi University of Finance and Economics	The Power of Partnership: How Enterprise-Supplier ESG Collaboration Improves Supply Chain Resilience
17:50–18:10	Rui Wan China University of Petroleum (East China)	When Trade Friction Undermines Sustainability: Evidence From Green Investment Under Regulatory Relaxation and Capacity Constraints

Session B



Climate Adaptation Strategies and Resilience Governance

气候适应策略与韧性治理

August 8, 15:50–18:10 · Meeting Room 6 (3rd Floor) · Chair: Ruhang Xu — North China Electric Power University

TIME	SPEAKER	PAPER
15:50–16:10	Ruhang Xu North China Electric Power University	System Value of New Wind and Solar Capacity Under Carbon Constraints: A Capacity-Expansion Assessment for China
16:10–16:30	Lidong Chen City University of Hong Kong	Clean Cooking Fuels Drive Dietary Transition and Increase Nutrition-Related Disease Risks in China
16:30–16:50	Ruilin Zhang The University of Tokyo	Net Energy Constraints and Household Deprivation: Fiscal Mediation and Income-Group Heterogeneity in Europe
16:50–17:10	Xiaofeng Ye University of Maryland	Data Center Expansion and Community Power Resilience in the USA
17:10–17:30	Yang Xiang Xinjiang University	Urban Climate Risk Index and Export Product Quality Competitiveness: From the Perspective of Functional Division of Urban Agglomerations
17:30–17:50	Yekti Pratiwi University of Western Australia	The Nexus Between Financial Inclusion and Energy Poverty in the Presence of Natural Disasters: Evidence From Indonesian Households
17:50–18:10	Mingyue Zheng China University of Petroleum (East China)	How Extreme Climate Risk Exacerbates Performance Fluctuations in the Low-Carbon Operation of Power Systems

Session B

B7

NEV Industry and Policy Simulation

新能源汽车产业与政策仿真

August 8, 15:50–18:10 · Meeting Room 7 (3rd Floor) · Chair: Xiaoli Zheng — Shanghai University of International Business and Economics

TIME	SPEAKER	PAPER
	Xiaoli Zheng Shanghai University of International Business and Economics	Highway Charging, Regional Spillovers, and Electric Vehicle Adoption: Evidence From China
	Sungwoong Han LX International	How Vulnerable Is Korea's EV Industry to Critical-Mineral Export Restrictions?: A System Dynamics Case Study
	Medhavi Sandhani Indian Institute of Technology Delhi (IIT Delhi)	Simulating Transport Mode Choices for Sustainable Mobility Adoption: Results From an Empirically Grounded Agent-Based Model
	Xi Ming University of Chinese Academy of Sciences	Strategic Spillovers of Time Inconsistency Risk in Climate Commitment
	Yibing Hao Beihang University	The Impact of Carbon Allowance Allocation Methods on China's Civil Aviation Industry: A BLP Model-Based Analysis
	Yaxin Zhao China University of Petroleum (East China)	From Early Adoption to the Mainstream Market: Forecasting New Energy Vehicle Diffusion With AI-Derived Consumer Perceived Value Signals

Session B



Energy and Environmental Governance and Just Transition

能源环境治理与公正转型

August 8, 15:50–18:10 · Meeting Room 8 (3rd Floor) · Chair: Chao Hua — Chizhou University

TIME	SPEAKER	PAPER
15:50–16:10	Chao Hua Chizhou University	How Does the Asynchrony Between Digitization and Informatization Affect Carbon Emissions? Evidence From China
16:10–16:30	Hubin Ma Chinese Academy of Sciences	
16:30–16:50	Sebin Sebastian Birla Institute of Technology & Science Pilani, Hyderabad Campus	Unequal Costs of Clean Cooking Transition: A Distributional Analysis of Household Energy Burden in India
	Yu Wang Ningxia University	Voluntary Environmental Regulations and the Low-Carbon Transition of Heavily Polluting Industrials: Evidence From China's Green Factory Certification
	Yujie Xiang Beihang University	Conditional Tail Dependence Reveals Residual Spatial PM2.5 Risk in Regional Environmental Governance: Evidence From Beijing
	Xinyu Wei China University of Petroleum (East China)	Distributional Impacts of Renewable Energy and Green Finance Policies on Chinese Household Groups Under Carbon Neutrality

Session B

B9

Energy Geopolitics and Supply Chain Analysis

能源地缘政治与供应链分析

August 8, 15:50–18:10 · Meeting Room 828 (4th Floor) · Chair: Wenya Wang — China University of Petroleum (East China)

TIME	SPEAKER	PAPER
15:50–16:10	Liu Xie China University of Geosciences	Embodied Energy Flows and Value Chain Effects in Trade Along the China-Mongolia-Russia Economic Corridor: A Multi-Regional Input-Output Analysis for 2019-2024
16:10–16:30	Pooneh Dabiri Shenzhen University	Sanctions, Rerouting, and Resilience: Iran's Coercion-Adaptive Energy Partnership With China
16:30–16:50	Wenyi Chen Yokohama National University	Supply Chain Vulnerability in Japan's Energy Transition Under Geopolitical Risks: An Input-Output Analysis Based on Direct and Indirect Energy Dependency Decomposition
16:50–17:10	Wenjing Yang China University of Petroleum (East China)	Multi-Scenario Optimization Strategy for Energy Storage Capacity Allocation: Incorporating Risk Aversion and Multi-Market Coordination
17:10–17:30	Yuxuan Sun Yokohama National University	An Input-Output Analysis of Changes in China's Energy Consumption Before and After the Implementation of RCEP (2020–2024)
17:30–17:50	Jin Gang Xi'an University of Science and Technology	Measuring China's Fossil Fuel Supply Chain Resilience and Its Dynamic Responses to External Shocks: A Structural-Functional-Adaptive
17:50–18:10	Xuan Liu China University of Petroleum (East China)	Geopolitical Risk and Energy-Price Volatility: Heterogeneous and Regime-Dependent Evidence From Oil, Gas, and Coal Markets

Session B

B10

AI and Digitalization in the Energy Sector

人工智能与能源产业数字化

August 8, 15:50–17:50 · Meeting Room 838 (4th Floor) · Chair: Xueqi Zhai — Henan University of Economics and Law

TIME	SPEAKER	PAPER
15:50–16:10	Xueqi Zhai Henan University of Economics and Law	How Artificial Intelligence Drives Manufacturing Green Transformation: A Value-Chain Perspective
16:10–16:30	Guanru Zhang City University of Hong Kong	Actor Configurations and Governance Dynamics: Tracing Energy Policy Response for AI-Driven Data Centers
16:30–16:50	Yuning Guo China University of Mining and Technology	Strategies for Enhancing Low-Altitude Economy Industrial Chain Resilience: A Dual-Drive Approach Based on Digital Technology Innovation and Industrial Policy
	Mengqu Miao Xi'an University of Science and Technology	Artificial Intelligence and the Energy Rebound Effect: A Quasi-Natural Experiment From National New-Generation Artificial Intelligence Innovation and Development Pilot Zones
	Yang Li Beijing Wuzi University	Can Digital-Real Integration Enhance Energy Resilience: Evidence From China
	Yajing Sun China University of Petroleum (East China)	Research on Technological Evolution and Inclusive Orientation in the Transformation of Agricultural Energy Systems

General Reminders

1. Please attend all sessions on time as scheduled and wear your conference badge at all times. During sessions, kindly set mobile phones to silent mode and keep the venue quiet.
请按照会议安排准时参加会议，并佩戴胸牌，会议期间请将手机设置为静音状态，并保持会场安静。
2. Buffet meals require a meal voucher. If you have special dietary requirements, please inform the organizing committee in advance.
会议期间自助餐需要凭餐券用餐，如您有特殊饮食需求，请提前告知会务组。
3. Hotel check-out is before 12:00 noon on the day of departure. Please take care of your personal belongings.
酒店退房时间为当天12:00点前，请您妥善保管好个人财物。
4. Should you have any further questions, please contact the conference organizing committee.
如有其他疑问，请及时与会务组联系。

Weather Forecast

DATE	FORECAST	TEMPERATURE	WIND
Friday, August 7	Cloudy	24 – 29°C	Southeast, force 2
Saturday, August 8	Sunny turning overcast	23 – 29°C	Northeast, force 3
Sunday, August 9	Overcast	23 – 28°C	Northeast, force 3

Conference Contacts

Conference Secretaries

Ms. Li (厉老师) 152 1021 6825
Ms. Wang (王老师) 135 9170 9385

Principal Contacts

Prof. Yang Bai, China University of Petroleum (East China)
ybai@upc.edu.cn

Ms. Zhang (张老师) 188 6311 5269

Prof. Hongyan Zhang, China University of Petroleum (East
China)
hongyan@upc.edu.cn

Hotel Information

Qingdao Haidu Hotel · 青岛海都大酒店

No. 218, Changjiang Middle Road, Huangdao District, Qingdao Economic & Technological Development Zone, Qingdao

Tel: 151 9270 7273 / 0532-8610 8888

Getting to the Hotel

Major transport hubs: Qingdao Railway Station · Qingdao North Railway Station · Qingdao West Railway Station · Qingdao Jiaodong International Airport

01 · From Qingdao Railway Station

Metro Line 1 — towards Wangjiagang, alight at Jinggangshan Road (Exit C), then walk approx. 437 m. Total journey approx. 40 minutes.

Taxi — approx. 21.25 km, approx. RMB 85 (incl. RMB 10 expressway toll), approx. 30 minutes.

02 · From Qingdao North Railway Station

Metro Line 1 — towards Wangjiagang, alight at Jinggangshan Road (Exit C), then walk approx. 437 m. Total journey approx. 60 minutes.

Taxi — approx. 36 km, approx. RMB 150 (incl. RMB 10 expressway toll), approx. 45 minutes.

03 · From Qingdao West Railway Station

Bus + Metro — Huangdao Bus No. 806 towards Kaifaqu Redianchang, alight at Yinzhu Metro Station (Chamagudao); transfer to the West Coast Express Line towards Jialingjiang West Road, alight at Jinggangshan Road (Exit C), then walk approx. 437 m. Total journey approx. 85 minutes.

Taxi — approx. 24.1 km, approx. RMB 79, approx. 40 minutes.

04 · From Qingdao Jiaodong International Airport

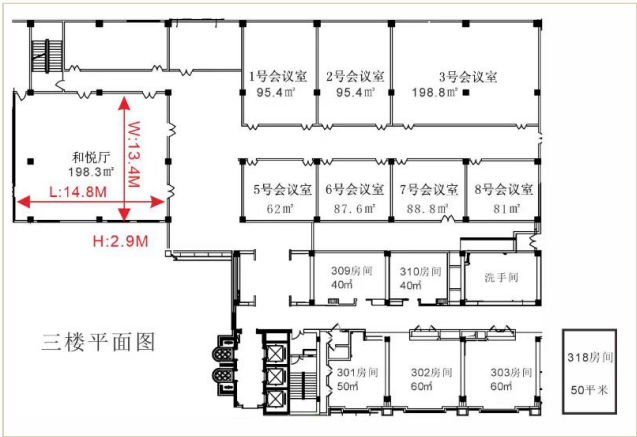
Metro — Line 8 towards Qingdao North Railway Station, transfer to Line 1 (towards Wangjiagang) at Qingdao North Station, alight at Jinggangshan Road (Exit C), then walk approx. 437 m. Total journey approx. 110 minutes.

Airport shuttle bus — Route: Jiaodong Airport → West Coast New Area of Qingdao. Fare: RMB 30 one-way. Drop-off at Ruiyuan Fanhuali (Jingting Hotel), approx. 1.6 km from the hotel (approx. 20 min. on foot, or a 10-minute taxi ride at approx. RMB 10).

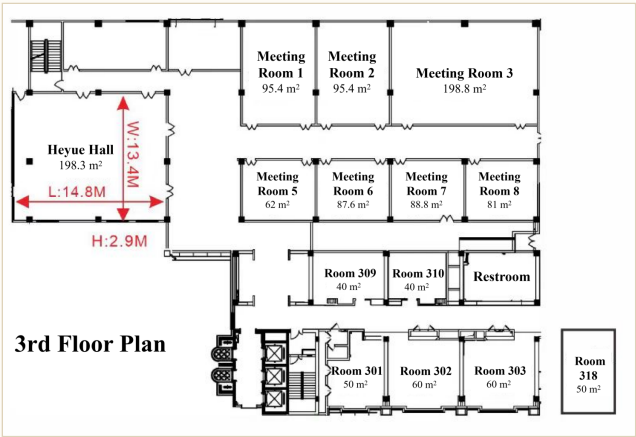
Departures from Jiaodong Airport: 10:00 · 11:00 · 12:00 · 13:00 · 14:00 · 16:00 · 18:00 · 21:00 · 23:00

Departures from Ruiyuan Fanhuali: 7:00 · 8:00 · 9:00 · 10:00 · 11:00 · 13:00 · 15:00 · 16:00 · 18:00

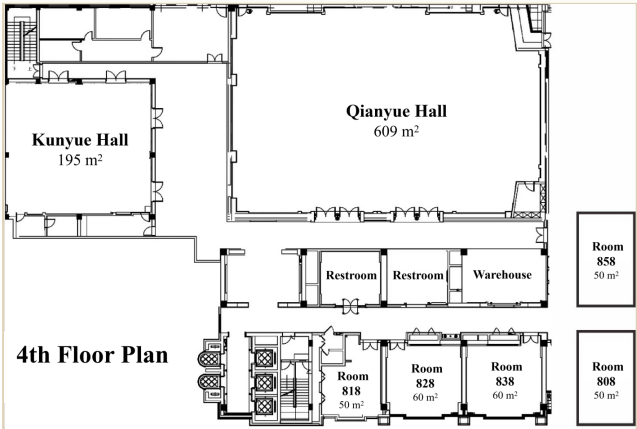
Hotel Floor Guide



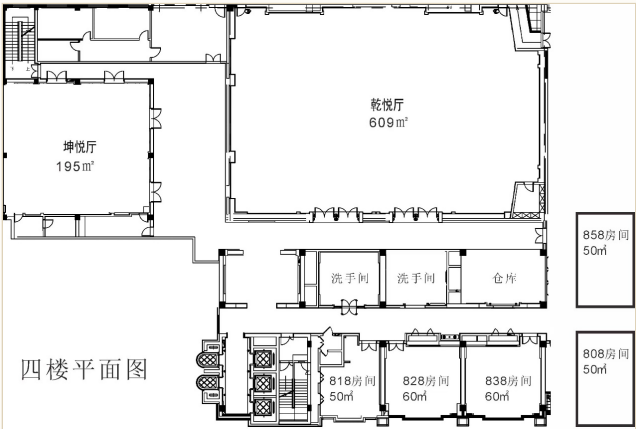
Hotel overview — event floors



3rd Floor — Session Halls & Meeting Rooms 1, 2, 3, 5, 6, 7, 8



4th Floor — Qianyue Hall & Meeting Rooms 828, 838



Additional floor guide