



"绿色低碳·能源变

国际高端论坛

International High-level Forum on Green and Low-carbon Energy Revolution 355th Science and Technology Forum of Chinese Academy of Engineering

> 2022年8月19日 中国·北京 August 19, 2022 Beijing



主办单位: 中国工程院

中国工程院化工、冶金与材料工程学部 承办单位:中国石油天然气集团有限公司

Host: Chinese Academy of Engineering Organizers: China National Petroleum Corporation Chemical, Metallurgical and Materials Engineering Division, Chinese Academy of Engineering

一、会务须知

(一) 会议时间地点

时间: 2022年8月19日 (星期五) 9:00-17:30

地点:中国石油科技交流中心

(北京市昌平区沙河镇西沙屯桥西中国石油科技园 A16 地块)

(二) 会务组联系人

1. 论坛会务

总 协 调: 于建宁 18600596711

吴谋远 13810659798

主 论 坛: 朱颖超 13436995518

向征艰 18511071305

分论坛一: 薛 明 18518377683

分论坛二: 陈艳鹏 13810490576

分论坛三: 乔 明 13671139089

2. 媒体宣传

吕阳春 13810830017

李妍楠 13488676229

3. 酒店协调、疫情防控、医疗服务

于会庆 13910871982

侯艳秀 18810241098



"绿色低碳·能源变革" 国际高端论坛 第355场中国工程科技论坛

International High-level Forum on Green and Low-carbon Energy Revolution
355th Science and Technology Forum of Chinese Academy of Engineering





I. Instructions

(I) Conference Time and Venue

Time: 9:00-17:30, August 19, 2022 (Friday)

Venue: CNPC Sci-Tech Exchange Center

(China Petroleum Science and Technology Park, West Shatunqiao, Shahe Town,

Changping District, Beijing)



(1) Forum service

Coordination: Yu Jianning 18600596711

Wu Mouyuan 13810659798

Main forum: Zhu Yingchao 13436995518

Xiang Zhengjian 18511071305

Sub forum 1: Xue Ming 18518377683

Sub forum 2: Chen Yanpeng 13810490576

Sub forum 3: Qiao Ming 13671139089

(2) Media

Lu yangchun 1381083001

Li Yannan 13488676229

(3) Hotel Conference; Epidemic prevention and control; Medical services

Yu Huiging 13910871982

Hou Yanxiu 18810241098





二、会议日程

主论坛	开幕式暨主旨演讲
	论坛地点: D 座三层报告厅 主持人: 戴厚良,中国工程院院士,中国石油集团董事长
9:00-9:10	会议开幕致辞 李仰平 中国工程院院士,中国工程院副院长
9:10-9:30	绿色低碳背景下的中国能源安全与发展战略 戴厚良 中国工程院院士,中国石油集团董事长
9:30-9:50	全球能源绿色低碳转型关键问题与创新发展 丹尼尔·耶金 标普全球 (S&P Global) 副董事长
9:50-10:10	会间茶歇

International High-level

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II. Agenda

Main Forum	Opening Ceremony and Keynote Speech
	Venue: Lecture Hall, F/3, Block D Moderator: Dai Houliang, Academician of Chinese Academy of Engineering, Chairman of CNPC
9:00-9:10	Opening Address Li Zhongping Academician and Vice President of Chinese Academy of Engineering
9:10-9:30	China's Energy Security and Strategy in the Context of Green and Low-carbon Development Dai Houliang Academician of Chinese Academy of Engineering, Chairman of CNPC
9:30-9:50	Key Issues and Innovative Development in the Green and Low- carbon Transition of Global Energy Daniel Yergin Vice Chairman of S&P Global
9:50-10:10	Tea Break



Energy Revolution

主论坛	大会报告
	主持人: 焦方正 , 中国石油集团副总经理
10:10-10:30	关于新能源与传统能源融合发展的若干思考 吴 09 国家能源局原副局长
10:30-10:50	对我国实现碳达峰碳中和战略及路径的思考 杜祥琬 中国工程院院士、原副院长
10:50-11:10	油气行业绿色低碳转型与科技创新 孙龙德 中国工程院院士
11:10-11:30	石化化工行业绿色低碳转型升级与科技创新 陈建峰 中国工程院院士,中国工程院秘书长
11:30-11:50	新型电力系统演变趋势与技术发展展望 舒印彪 中国工程院院士,中国华能集团董事长
主论坛	论坛总结
11:50-12:00	主论坛总结 戴厚良 中国工程院院士,中国石油集团董事长
12:00-14:30	午餐与休息

Main Forum	Assembly Reporting
	Moderator: Jiao Fangzheng, Vice President of CNPC
10:10-10:30	On the Integrated Development of New Energy and Traditional Energy Wu Yin Deputy director of the National Energy Administration
10:30-10:50	On the Strategy and Paths towards Carbon Peaking and Carbon Neutrality In China
	Du Xiangwan Academician of the Chinese Academy of Engineering, Deputy Director of the National Energy Advisory Committee
10:50-11:10	Green and Low-carbon Transition and Innovative Development in the Oil & Gas Industry
	Sun Longde Academician of Chinese Academy of Engineering
11:10-11:30	Green and Low-carbon Transition, Upgrading and Technology Innovation in the Petrochemical Industry
	Chen Jianfeng Secretary-General of Chinese Academy of Engineering, Professor of Beijing University of Chemical Technology
11:30-11:50	Prospects for the Development and Technological Innovation of New Power Systems
	Shu Yinbiao Academician of Chinese Academy of Engineering, Chairman of China Huaneng Group
Main Forum	Forum Summary
11:50-12:00	Concluding Speech Dai Houliang Academician of Chinese Academy of Engineering, Chairman of CNPC
12:00-14:30	Lunch Break

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专题分论坛(

油气行业绿色低碳转型发展与 科技创新论坛

论坛地点:D座三层报告厅

主持人: 谭天伟, 中国工程院院士

	<u> </u>
14:30-14:55	油气行业数字化转型与智能化发展趋势与前景预判 刘 合 中国工程院院士
14:55-15:20	天然气在我国能源转型中的地位与发展展望 黄维和 中国工程院院士
15:20-15:45	全球碳产业现状、技术进展与启示 Jarad Daniels 全球碳捕集封存研究院首席执行官
15:45-16:00	会间茶歇
16:00-16:25	油气行业节能环保产业发展展望与技术路径 周爱国 中国石油 OHSE 首席专家
16:25-16:50	绿色低碳背景下我国油气行业转型发展机制与政策建议
16:50-17:30	圆桌讨论



Sub-forums



Forum on Green and Low-carbon Transition, Development and Technology Innovation in the Oil & Gas Industry

	Venue: Lecture Hall, F/3, Block D Moderator: Tan Tianwei , Academician of Chinese Academy of Engineering
14:30-14:55	Digital Transition, Intellectual Development and Prospect of the Oil & Gas Industry
	Liu He Academician of Chinese Academy of Engineering
14:55-15:20	The Role and Development Prospects of Natural Gas in China's Energy Transition
	Huang Weihe Academician of Chinese Academy of Engineering
15:20-15:45	The Development Status, Technical Progress and Enlightenment on the Global Carbon Industry
	Jarad Daniels Chief Executive Officer of Global CCS Institute
15:45-16:00	Tea Break
16:00-16:25	Outlook and Technology development of Energy-conservation in the Oil & Gas Industry
	Zhou Aiguo Chief Expert on QHSE of China National Petroleum Corporation
16:25-16:50	Institutional Mechanisms and Policy Suggestions for the Transition of China's Oil and Gas Industry in the Context of Green and Low-carbon Development
	Yang Lei Deputy Director of Institute of Energy, Peking University
16:50-17:30	Round Table Discussion





专题分论坛 2

新能源与可再生能源发展与 科技创新论坛

论坛地点: D座三层6号会议室 主持人: 邹才能, 中国科学院院士

14:30-14:55	双碳目标下储能技术的发展与展望 成会明 中国科学院院士
14:55-15:20	双碳目标下太阳能等新能源发展前景与技术创新 李美成 华北电力大学新能源学院院长
15:20-15:45	中国氢能源与燃料电池发展战略研究 彭苏萍 中国工程院院士
15:45-16:00	会间茶歇
16:00-16:25	绿色化学与可持续发展 韩布兴 中国科学院院士
16:25-16:50	华为数字技术助力智慧能源发展 方良周 华为数字能源副总裁
16:50-17:30	圆桌讨论



Sub-forums



Forum on New Energy and Renewable Energy Development and Technology Innovation

	Venue: No. 6 Conference Room, F/3, Block D Moderator : Zou Caineng , Academician of Chinese Academy of Sciences
14:30-14:55	Energy Storage Technologies: Development and Outlook under Carbon Peaking and Carbon Neutrality Goals
	Cheng Huiming Academician of Chinese Academy of Sciences
14:55-15:20	Outlook and Technological Innovation of New Energy (Solar) under Carbon Peaking and Carbon Neutrality Goals
	Li Meicheng Dean of School of New Energy, North China Electric Power University
15:20-15:45	Development Strategies on Hydrogen Energy and Fuel Cells in China Peng Suping Academician of Chinese Academy of Engineering
15:45-16:00	Tea Break
16:00-16:25	Green Chemistry and Sustainable Development Han Buxing Academician of Chinese Academy of Sciences
16:25-16:50	Huawei Digital Technology Empowers Intelligent Energy Development Fang Liangzhou Vice President of Huawei Digital Power
16:50-17:30	Round Table Discussion





专题分论坛 3

石化行业绿色低碳转型发展与 科技创新论坛

论坛地点: D 座一层 18 号会议室 主持人: 徐春明, 中国科学院院士

	主持人: 徐春明 ,中国科学院院士
14:30-14:50	未来的高分子材料低碳发展途径 王玉忠 中国工程院院士
14:50-15:10	数实融合助力石化工业数字化转型
	钱 锋 中国工程院院士
15:10-15:30	若干基础化学品低碳制造技术及展望
	汪其龙 中国工程院院士
15:30-15:50	中国石油炼油化工业务绿色低碳发展创新与实践
	杨卫胜 中国石油集团石油化工研究院院长
15:50-16:10	会间茶歇
16:10-16:30	石化工业过程电气化,引领低碳未来
	Andrew Howell 英国 KBC 公司科技执行副总裁
16:30-16:50	双碳背景下的石化行业挑战机遇与科技创新展望
	谢在库 中国科学院院士
16:50-17:30	圆桌讨论

Sub-forums



Forum on the Green and Low-carbon Transition, Development and Technology Innovation of the Petrochemical Industry

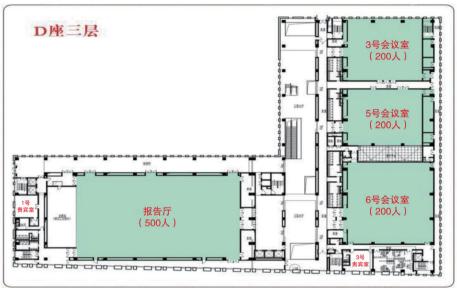
Venue: No. 18 Conference Room, F/1. Block D Moderator: Xu Chunming, Academician of Chinese Academy of Low-carbon Development Path of Polymer Materials 14:30-14:50 Wang Yuzhong | Academician of Chinese Academy of Engineering The Integration of Digital and the Real Economy Boosts the 14:50-15:10 Digital Transition of the Petrochemical Industry Qian Feng | Academician of Chinese Academy of Engineering Low-carbon Manufacturing Technology and Development 15:10-15:30 **Outlook for Basic Chemicals** Ren Qilong | Academician of Chinese Academy of Engineering Innovation and Practice of Green and Low-carbon Development 15:30-15:50 in PetroChina's Refining and Chemicals Business Yang Weisheng | President of PetroChina Petrochemical Research Institute 15:50-16:10 Tea Break Process Electrification in the Petrochemical Industry Leading to 16:10-16:30 A Low-carbon Future **Andrew Howell** | Executive Vice President of KBC Challenges and Opportunities in the Petrochemical Industry un 16:30-16:50 der Dual Carbon Goals and the Outlook of Scientific and Techno **logical Innovation Xie Zaiku** | Academician of Chinese Academy of Sciences **Round Table Discussion** 16:50-17:30

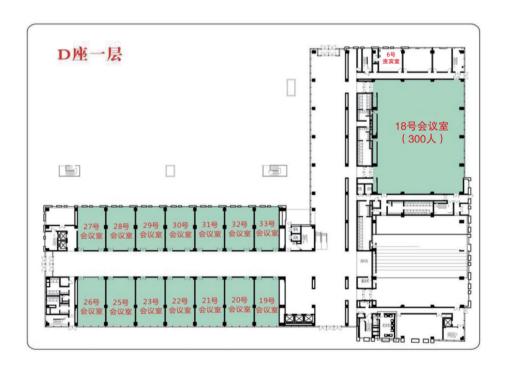


会议场所平面示意图

Plan of Conference Venues







会场交通示意图 Traffic Map







"绿色低碳·能源变革"国际高端论坛

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