

Competition on Energy & Climate Change

— the special event of BRICS Youth Energy Summit &

International Energy Youth Conference

List of Winners

Academic Track

● First Prize of Best Academic Paper

Competing Track	Participant Category	Institution	Title of Entry	Group Members
Academic Track	Student Group	Renmin University of China	The general equilibrium impacts of different carbon tax revenue-recycling options in China: A perspective of green technological progress	Yuanhua Chang, Ge Li, Ying Tian
Academic Track	Enterprise & Institution Group	Tianjin University	Flexible multi-objective optimization planning method for distributed energy system based on multi-operation scenarios	Jide Niu, Xiaoyuan Li, Zhe Tian, Ruoyu Zhou, Haoran Mai

● Second Prize of Best Academic Paper

Competing Track	Participant Category	Institution	Title of Entry	Group Members
Academic Track	Student Group	Tsinghua University	How financing constraints change with carbon emission trading scale	Qingyang Wu, Yao Hou, Siyu Ren, Zaoli Yang
Academic Track	Student Group	Tianjin University	Unequal age-based household carbon footprint in China	Yalei Cui, ZhongXiang Zhang, Zengkai Zhang
Academic Track	Enterprise & Institution Group	Cardiff University (UK)	Does the weather change the energy efficiency gap: Evidence from air conditioner purchases in the United States	Pan He, Helen Liu, Yueming Qiu, Pengfei Liu

● Excellence Award of Academic Track

Competing Track	Institution	Team Leader	Title of Entry	Group Name	Group Members
Academic Track	Huazhong University of Science and Technology	Banban Wang	Dirtier or Cleaner? An Empirical Analysis of China's Overseas Energy Infrastructure Projects Before and After the Belt and Road Initiative	“一带一路”小分队	Zhiyuan Cui , Li Ma, Xinxin Zhong, Xing Wu, Boyang Du, Yifang Wu, Xinran He, Shuijing Li, Cong Liu
Academic Track	China University of Petroleum-Beijing at Karamay	Dingding Wang	Potential Accounting of Forestry Carbon Pool and Optimization of Harvesting Strategy in China from Multi-Benefit Perspective	大漠胡杨队	Dingding Wang, Jinbo Chao, Zhehan Zhu, Keyu Cheng
Academic Track	China University of Petroleum -East China (UPC)	Shichang Zhang	Do oil prices affect renewable energy development? Empirical evidence from a global framework analysis		Shichang Zhang
Academic Track	Beihang University	Rongqi Zhu	Emission Trading Scheme, Technological Innovation, and Competitiveness Evidence from China's thermal power enterprises		Rongqi Zhu
Academic Track	China University of Petroleum-Beijing	Haichen Ji	Research on asset stranding risk of refinery based on different carbon price and crude oil price scenarios	中石大探险队	Yanan Zhang, Haichen Ji, Runjia Zhou, Junqi Tan, Zheqi Yang

Competing Track	Institution	Team Leader	Title of Entry	Group Name	Group Members
Academic Track	Taiyuan University of Technology	Wei Li	Multiregional Input-Output Analysis of Spatial-Temporal Evolution Driving Force for Carbon Emissions Embodied in Interprovincial Trade and Optimization Strategies: A Case Study of Shanxi, China	碳减排与低碳行为课题组	Wei Li, Qi Wang, Guomin Li
Academic Track	Renmin University of China	Zida Zhao	Market Structure, the Cap-and-trade Mechanism, and Carbon Emissions Reduction in the Power Sector		Zida Zhao
Academic Track	China University of Petroleum-Beijing	Meishan Wan	Structural changes in the demand for different skilled workers and estimation of re-employment costs in China in the background of carbon peaking	Energetic Youth Team	Meishan Wan, Ling Zhang, Zening Xu
Academic Track	China University of Petroleum -East China (UPC)	Zhen Cheng	Green Credit and Enterprise Green Innovation in China: A Quasi-Natural Experiment Based on “Green Credit Guidelines”	绿意融融	Zhen Cheng, Yiqi Feng, Yingxuan Wang
Academic Track	Sinopec International Exploration and	Yongjie Hu	Estimates of carbon dioxide emission and terrestrial ecosystem carbon	碳源碳汇	Yongjie Hu, Rongtu Ma, Xiaolin Liu, Yixian Zheng, He Gong, Ying Li

Competing Track	Institution	Team Leader	Title of Entry	Group Name	Group Members
	Production Corporation		sinks in China		
Academic Track	University College London (UCL)	Lu Cheng	Dirty skies lower China's subjective well-being	UCL Climate Change Economics Team	Lu Cheng, Zhifu Mi
Academic Track	Chongqing University	Hao Zheng	Examining the internal-structural effects of internet development on China's urban green total factor productivity	好运来	Hao Zheng, Chao Feng, Jun Yang

Practice Track

● Best Practice Award

Competing Track	Participant Category	Institution	Title of Entry	Group Name	Group Members
Practice Track	Innovation & Entrepreneurial Design	China University of Petroleum-Beijing	Carbon Zero Technology -The leader of carbon sequestration and monitoring in carbon neutralization	碳和科技	Xintong Rao, Fei Guo, Pinbo Ding, Genyang Tang, Qingning Shen

● **Excellence Award of Practice Track**

Competing Track	Participant Category	Institution	Title of Entry	Group Name	Group Members
Practice Track	Innovation & Entrepreneurial Design	SINOPEC Research Institute of Petroleum Engineering Overseas Center	PG_Intelligent Platform Business Plan (Software Dev. & Web Service)	PI_Group	Lulu Liao, Shunhui Yang, Yang Xu, Jiahua Lin, Xianzhi Song, Shizhong Cheng, Zhou Yuan, Ruiyao Wang, Boyue Xu, Lingling Yu, Huiyuan Wang, Liangchen Ouyang, Kai Dong, Wenshi Chen, Qichao Gao, Yufeng Li, Ran Ji, Rui Kou
Practice Track	Innovation & Entrepreneurial Design	China University of Petroleum-Beijing	Smart and efficient foam fracturing leader under double carbon target	加油泡沫	Rong Zheng, Xuliang Zhang, Yucheng Wu, Nan Zhou
Practice Track	Research Report	Southwest Petroleum University	Carbon Dioxide Transportation and Storage Technology Investigation	国重发明家	Ziyuan Li, Yan Lv, Chenguang Yong, Huan Xiao, Ziyin Pu
Practice Track	Innovation & Entrepreneurial Design	China University of Petroleum-East China (UPC)	Green Source	Green Source	Hongpeng Lv, Xinyi Dai
Practice Track	Research Report	Central University of Finance and Economics	Research Report on Carbon Peak and Carbon Neutralization in XX City	地方碳达峰碳中和规划方案策划队	Yiwen Li, Xiaojuan Wang

Competing Track	Participant Category	Institution	Title of Entry	Group Name	Group Members
Practice Track	Innovation & Entrepreneurial Design	China University of Petroleum-Beijing	Business Plan of ZhongShi New Material Group	中石新材集团	Wei Shan, Ziji Yang, Junjie Jiang, Wei Li, Jiaye Cai, Yuci Tian, Yibo Wan, Gao Liu
Practice Track	Research Report	Tianjin University	Investigation on Public Response Based on Low Carbon Economy, Energy Conservation and Emission Reduction based on VAR Model	天新“智”“能”社会调研小组	Wenjuan Xu, Xiyuan Yao, Yueqi Wang, Fuhao Zhao, Xingyu Fu, Shihui Lu, Yaonan Gu, Tianyi Chen, Agnes S. Ellie, Na Deng, Junfeng Zhang, Pengcheng Zhao, Jun Zhao, Muhammad Tahir
Practice Track	Research Report	China National Petroleum Corporation	Multiple Solutions to the International Fund Management Innovation for Multinational Petroleum Enterprises and the Practice	Petroleum Black Gold(石油黑金队)	Wenting Hou, Shaofei Wang, Yupeng Zhang
Practice Track	Research Report	PetroChina Planning & Engineering Institute	"Coal to Gas" Clean Heating in the North of China Research Report	3Lace	Yong Liu, Zhengrong Li, Shuo Liu
Practice Track	Innovation & Entrepreneurial Design	Xi'an Jiaotong University	High hardness self-lubricating ceramic coating for piston aero engines	夺冠热门创新港小分队	Shiqin Kong, Meng Zhang, Ze Ma

Competing Track	Participant Category	Institution	Title of Entry	Group Name	Group Members
Practice Track	Policy Proposal	China University of Petroleum-Beijing	Some Analysis and advice on Achieving Carbon Neutrality and Promoting Energy Structure Transformation	Carbon 2030	Xiaocao Shi, Mingjun Ma
Practice Track	Policy Proposal	China University of Petroleum (Beijing); University of Chinese Academy of Sciences; University of Alberta; University of Texas at Austin	Golden and Green- A proposal for carbon emission rights allocation and trading	Golden and Green	Panpan Zhang, Lifeng Xu, Daniel Cartagena, Waleed Ali Khan, Maggie Ou, Divya Shah
Practice Track	Policy Proposal	Central University of Finance and Economics	Analysis of the Coupling Coordination of Green Finance and Green Total Factor Productivity--Empirical analysis based on provincial	环保小卫士	Ruixuan Xing, Yi Ren, Yuexi Wang

Competing Track	Participant Category	Institution	Title of Entry	Group Name	Group Members
Practice Track	Research Report	China University of Petroleum-Beijing	Low Carbon To Meet Future	Low-Carbon Pioneer	Shizhong Cheng, Yufeng Li, Rui Kou, Zhou Yuan, Liangchen Ouyang, Qichao Gao, Peng Sun, Boyue Xu, Ran Ji, Lulu Liao, Lingling Yu, Ruiyao Wang, Chengcheng Niu, Wenshi Chen, Jiahua Lin, Kai Dong, Huiyuan Wang0
Practice Track	Innovation & Entrepreneurial Design	China National Petroleum Corporation	Top-level Management Framework of Derivatives for China Energy Enterprises	Petroleum Black Gold(石油黑金队)	Wenting Hou, Songqiao Wu

● Outstanding Performance Award of Practice Track

Competing Track	Participant Category	Institution	Title of Entry	Group Name	Group Members
Practice Track	Innovation & Entrepreneurial Design	China University of Petroleum -East China (UPC)	Natural Gas Pipeline Leak Detection and Early Warning Scheme	智检科技	Tong Wu, Yukai Chen, Xueyan Li, Zhepeng Yao, Shengbin XU, Yongqi Sun
Practice Track	Innovation & Entrepreneurial Design	China University of Petroleum-Beijing	Carbon-neutrality Foams Engine —— Clean development mode of energy	Bubble Gum Team	Xinshu Guo, Danting Xiao, Mengchen Jiang, Zhihao Jia, Yuying Wang

Competing Track	Participant Category	Institution	Title of Entry	Group Name	Group Members
Practice Track	Innovation & Entrepreneurial Design	China University of Petroleum -East China (UPC)	Nondestructive Testing and Intelligent Monitoring System of Ultradeep Water Multipurpose Flexible Pipe Based on Infrared Thermal Imaging Technology	能源装备红外检测监测小分队	Yubin Zhang, Pengqian Liu, Yi Qin, Yage Han, Xinghui Yang
Practice Track	Innovation & Entrepreneurial Design	China University of Petroleum-Beijing	Energy Saving and Emission Reduction - Replacement of Fuel Cell Core Materials - N-PAC Catalyst		Yongjie Zhao, Haixia Zhang, Yuanqing Sun, Lingyuan Xie, Wenshuai Fan, Yue Quan, Shaohua Shu, Xinyu Li, Chuangui Xia, Xinying Zhang, Yizhuo Liu
Practice Track	Innovation & Entrepreneurial Design	Tianjin University	INTEGRATED ENERGY SYSTEM OPTIMIZATION PLANNING SOFTWARE	天津大学建筑与能源团队	Xiaoyuan Li, Jide Niu , Xia Wu, Haoran Mai
Practice Track	Innovation & Entrepreneurial Design	China University of Petroleum -East China (UPC)	Design of innovative equipment for efficient recovery of natural gas hydrate based on energy separation effect		Guoxiang Tang

Competing Track	Participant Category	Institution	Title of Entry	Group Name	Group Members
Practice Track	Policy Proposal	Sinopec International Petroleum Exploration and Production Corporation (SIPC)	Enlightenment of Operating Strategy of Overseas Oil Companies Under Low-carbon Transition to Development of China's Oil and Gas Industry	国际能源战略转型队	Yifang Wu, Zhiyuan Cui, Li Ma, Xinxin Zhong, Xing Wu, Boyang Du, Yifang Wu, Xinran He, Shuijing Li, Cong Liu
Practice Track	Policy Proposal	PetroChina International Co., Ltd	China's Energy Transition Under Energy Security Challenges	A Team Has No Name	Qiang Wei, Hongyu Wang
Practice Track	Policy Proposal	CNOOC International	Policy Proposal on Comprehensive Development of Far-reaching offshore energies	海油新风-绿色能源转型小组	Hao Zhang, Changxu Chen, Yuxi Chong, Bo Wang, Jiuguo Deng, Shu Feng, Xinmiao Wang, Zhichuan Li, Lu Chuang, Yan Lv, Xiaolong Yang, Haibo Wu, Yu Huang, Liang Yang, Shousen Zhang, Shi Deng, Barnaby Nicholas, Yu Zhang, Zihang Li, Bohan Cao
Practice Track	Policy Proposal	China University of Petroleum-Beijing	Some suggestions for the energy transition	Laissez-faire	Zexuan Lv, Tao Jing, Li Wang, Xinyue Huo, Ran Zhang, Yujing Zhou

Competing Track	Participant Category	Institution	Title of Entry	Group Name	Group Members
Practice Track	Research Report	Si Chuan Bluestone Construction Co.,ltd	Study on Comprehensive Utilization of Crop Straw in China for the Realization of Double Carbon Goal	知难而上	Zhijie Shan, Zhang Li, Yike Xiao
Practice Track	Research Report	Tsinghua University	Opportunities and challenges for power companies in the construction of the national carbon market		Yuwei Weng
Practice Track	Research Report	Sinopec International Petroleum Exploration and Production Corporation (SIPC)	Carbon Emission Reduction Achievement by Using New Technology in Sinopec International Petroleum Company-Sinopec Canada leading by Action	国勘公司碳减排研究小组	Hongna Qu, Perry Roney, Ryan Hansen, Jue Wang , Xinran Gong, Wei Liu
Practice Track	Research Report	China University of Petroleum-Beijing	Techno-economic evaluation and future feasibility analysis of green power hydrogen production	Carbon 903	Weidong Yang, Zinan Zhi
Practice Track	Research Report	China University of Petroleum -East China (UPC)	Integration study of large span light alloy tank roof and surface functional	PCS@P 2	Deshui Yu, Shuangfei Hu, Wentao Sun, Yongqiang Zhu

Competing Track	Participant Category	Institution	Title of Entry	Group Name	Group Members
			coating		

Voice Track

● Best Voice Award

Competing Track	Institution	Title of Entry	Group Members	Nationality/ Country
Voice Track	CNODC Brasil Petróleo e Gás Ltda.	CNPC Low-carbon practices in deep-water and ultra-deepwater oil gas exploration and production in Brazil	Jian Zhao, Tarcilio Dutra, Bruna Viana, Yugui Zhang, Yuele Zhang, Jie Zhang	Brazil

● Excellence Award of Voice Track

Competing Track	Institution	Title of Entry	Group Name	Group Members	Nationality / Country
Voice Track	LEARNBYRESEARCH	India's path to carbon neutrality		INFANT RAJ STEPHENRAJ	India
Voice Track	China Energy Media Group Co.,Ltd	China's green and low-carbon transformation of energy under the background of carbon peaking and carbon neutrality goals	中能传媒低碳践行者	Ruijia Wang, Zheng Zhang	China
Voice Track	CNPC AMERICA LTD	Carbon fertilization in the Amazonas through CO2 capture and	CNPC AMERICA LTD	Rui Huang, Francisco Quevedo, Edgar Martine, Baorui Ji	Venezuela

Competing Track	Institution	Title of Entry	Group Name	Group Members	Nationality / Country
		innovative chance to face climate change			
Voice Track	ANDES PETROLEUM ECUADOR LTD.	Practice of low carbon development in Andes Petroleum Ecuador LTD	南美开拓者	Taoran Feng, Gabriela, Shuangjie Dai, Xianglin Xu, Javier, Zhengwei Liang, Jing Liang, Ruben, Fabrizio, Gabriele	Ecuador
Voice Track	CNPC PERU PROJECT	THE CLIMATE CHANGE AND ENERGY TRANSITION IN PERU	中油国际（秘鲁）公司	Shiqun Li, MELISSA HE, Stephanie Herrera	Peru
Voice Track	ASIA GAS PIPELINE (AGP)	Green path of Asia Gas Pipeline		Aigerim Ospanbayeva	Kazakhstan
Voice Track	Repsol Sinopec Resources UK	Repsol Sinopec - Committed to Energy Transition	TBC	Yue PANG, Andrew WRIGHT, Chen XU, Anna BARRON, Cong ZHANG, Claire Garden, Craig ANGUS	United Kingdom
Voice Track	Sinopec International Petroleum Exploration and Production Corporation (SIPC)	Sinopec Canada New Technology Application and Emission Reduction Practices Video	Sinopec Canada	Hongna Qu, Perry Roney, Ryan Hansen, Xinran Gong, Julie Young	Canada
Voice Track	Xinjiang Oil Field Company	Development of CCS (CCUS) in Xinjiang Oil Field Company	CCUS 绿色低碳创新团队	Haihai Dong, Xu Ren, Piao Xu, Xianwei Hu, Chao Yan, Xunchen Cao, Jie Li, Li Teng,	China

Competing Track	Institution	Title of Entry	Group Name	Group Members	Nationality / Country
				Yan Yang, Yongjing Hu, Jingchen Zhang, Xiaojing Luo	
Voice Track	CNPC Research Institute of Safety&Environment Technology	Progress and Trend of Greenhouse Gas Accounting in Petroleum and Petrochemical Industry		Wenjia Xu	China
Voice Track	Gubkin University of Oil and Gas	Analysis of emission reduction projects in the petroleum industry	ESGubkin	Zenovskaya Anna, Mironova Marina, Hudyakova Evangelina	Russia
Voice Track	City University of Hong Kong	Sprouting Hong Kong: the Path to Carbon Neutrality		Boyu Liu, Yaying Zeng, Minghao Zheng, Ziyi Wang	China
Voice Track	China University of Geosciences Beijing	Energy Conservation of the Ocean-Leave the Blue to the Sea	海洋节能之力	Danyang Zhai, Tongbang Zeng,Hao Fan, Feiyang Liu	China
Voice Track	China University of Petroleum-Beijing	Energy Conservation-together for a shared future	碳中和青年先锋队	Jiaming Yu, Yi Shu, Haowen Duan, Shengzhao Wang, Yumin Zhang, Yanfei Su, Ashyrov Agamamme, Takudzwa Duncan Maluw,Chenxi Chen, Yongjie Zhao, Xinzhu Zheng	China

Competing Track	Institution	Title of Entry	Group Name	Group Members	Nationality / Country
Voice Track	CNPC Niger Petroleum S.A.	Low Carbon & Green Development in Sahara Desert	Green Niger	Qingling Liu, Zheng Zhang, Issaka Baare, Gaya Abdourahamane	Niger
Voice Track	CNOOC International Limited	Governing a country's energy Transition is like cooking small fish.	海油国际- 新能源业务发展	Hao Zhang, Jianrong Wang, Barnaby Nichols, Jian Wang, Jing wang	China
Voice Track	JSC "CNPC International Aktobe Petroleum"	Green and low-carbon future on The Belt and Road	阿克纠宾青年友谊团队	Hongge Jia, Титова E.B, Chunyu Li, Кириллова Ю. С, Расмагамбетова A.Г, Weiping Feng, Умбеталиева K.Y	Kazakhstan
Voice Track	China University of Petroleum-B eijing	Paper or Paperless	双 E 小队	Xinyi Xia, Yanrui Sun, Xintong Guo, Wenqi Wang, Zhizhen Yang, Yunjing Ma, Keyu Cao	China
Voice Track	China University of Petroleum-B eijing	Dimming the light, brightening the future		Bingmao Song, Yiru Gao, Ting Lei, Fengyang Xin, Danyi Zou	China

● Outstanding Performance Award of Voice Track

Competing Track	Institution	Title of Entry	Group Name	Group Members	Nationality / Country
Voice Track	N'Djamena Refinery Company	Development of oil refining industry and environment protection of Chad		Xuefeng Li, Achta Hamid, Pan Zhang, Mahamat Nour Massar, Akotmo Jesus, Hong Yang, Noubaissem Christian	Chad
Voice Track	SINOPEC International Petroleum Exploration and Production Corporation	Team Next_Bet on SIPC		Xinran He, Boyang Du	China
Voice Track	CNPC NILE	Environment Protection in Sudan by CNPC NILE		Jingyi Yang, Rida A. Farid, Khalid Abdelrahman Bakrawi, Siyu Chen, Yong Yang	Sudan
Voice Track	CNPC International (Nile) LTD	Climate change in South Sudan	尼罗河公司南苏丹团队	Qi Liu, William Zakaria, Heng Liu	South Sudan
Voice Track	PetroKazakhstan	Green and high-quality development of PetroKazakhstan	PK 绿色发展	Enjie Zhao, Yi Yang, Mingyu Yang, Tahir Nizam	Kazakhstan
Voice Track	PetroChina (Halfaya)	Promoting the Green Development of the Belt and Road-Practices of Energy Conservation	中石油哈法亚团队	Wen Ouyang, Alaa Aldin Megbel Yasee, Vusal Mammadov, Yanhui He, Feng Liu, Akli	Iraq

Competing Track	Institution	Title of Entry	Group Name	Group Members	Nationality / Country
		and Emissions Reduction in Iraqi Halfaya Oilfield		Kifouche, Xiaozhen He, Jean-Gabriel Affonco, Shuoyi Ren, Xin Chen	
Voice Track	BOZOY-SH YMKENT GAS PIPELINE	Environmental Protection Practice of Beineu-Shymkent Gas Pipeline in Kazakhstan	Team Elite	Feng Yang, Bayan Zhakupova, Rustam Safiullin	Kazakhstan
Voice Track	Branch of the Company “Trans-Tajik Gas Pipeline Company Limited”	Importance of using natural gas for energy conservation, emission reduction and environmental protection	QHSE Department	Saidov Umedjon	Tajikistan
Voice Track	ATG UCS1 Station	One sky One dream	中乌清洁能源队	Shizheng Tao, Wenbin Wang, Nosir Karimov	Uzbekistan
Voice Track	Sinopec International Petroleum Exploration and Production Corporation (SIPC)	The application of big data technology in international carbon emissions	元宇宙	Yao Zhao, Yousheng Sui	China
Voice Track	Sinopec International Petroleum Exploration and Production Corporation (SIPC)	The great chain against CO2		Guillaume, Enyu Zhang, Yuan Yao, Huihan Cao	France
Voice Track	University College Dublin (Ireland)	Energy Consumption and Renewable Energy in		Yibing Wang, Ziao Wang	Ireland

Competing Track	Institution	Title of Entry	Group Name	Group Members	Nationality / Country
		Ireland			
Voice Track	China University of Petroleum-Beijing	Climate Change and Low-Carbon Economy in Saudi Arabia		Qin Li, Sara Girmay	China
Voice Track	China University of Petroleum-East China (UPC)	Energy Conservation and Emission reduction	绿水青山队	Huidi Wu, Siqi Huang, Shuqi Yu	China
Voice Track	CHINA PETROLEUM ENGINEERING & CONSTRUCTION CORP	The light	CPECC 中东地区公司	Boyi Miao, Xuejun Wen, Min Zhang, Haiwen Cao, Jianjun Wu, Yubo Liu, Weiguang Wen, Zixian Wang, Yi Ge, Xiaohan Wang	China
Voice Track	CNPC Amudarya Petroleum Company LTD	A shared Future		Hao Xu, Marksat, Xin Zhang	Turkmenistan
Voice Track	Beijing Jiaotong University	South African efforts to achieving Clean Energy		Venolia Ncokazi, Vuyo Edwin Ncokazi	South Africa

Best Idea Award

Competing Track	Institution	Title of Entry	Group Members	Nationality /Country
Voice track	SINOPEC International Petroleum Exploration and Production Corporation	Team Next_Bet on SIPC	Xinran He, Boyang Du	China

Best Organization Award

Institution
China University of Petroleum -East China (UPC)
Zunyi Normal University
Jiangsu University
School of Environmental Science&Engineering, Tianjin University
Xi'an Jiaotong University
National University of Oil and Gas «Gubkin University»
Ufa State Petroleum Technological University
Baku Higher Oil School
China National Oil and Gas Exploration and Development Company Ltd.
SINO-PIPELINE International
CNPC PERU PROJECT
CNPCI West Africa Ltd.
CNPC International (Nile) Ltd.
PetroChina Halfaya FZCO
PetroKazakhstan Inc.
CHINA PETROLEUM ENGINEERING & CONSTRUCTION CORP
PetroChina International CO.,LTD
PetroChina Xinjiang Oilfield Company
PetroChina Dagang Oilfield Second Production Plant
CNOOC International Limited
Sinopec International Petroleum Exploration and Production Corporation (SIPC)
Youth League committee of CNPC Research Institute of Safety&Environment Technology