

Public Announcement of Winners of Competition on Energy and Climate Change (CECC)

The review of the entries submitted to the Competition on Energy and Climate Change (CECC), a special event of BRICS Youth Energy Summit & International Energy Youth Conference, has been completed lately. The CECC committee is announcing the winners as listed below. Please contact the committee by email at energyyouth2022@163.com within 7 days if you have any objections.

First Prize of Best Academic Paper

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

Second Prize of Best Academic Paper

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

| | | | | |
|--|-------------------|--|---------------------|---|
| | Institution Group | | Qiu, Pengfei Liu | from air conditioner purchases in the United States |
|--|-------------------|--|---------------------|---|

Excellence Award

| Competing Track | Institution | Author/ Team Leader | Title of Entry |
|-----------------|--|------------------------|---|
| 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 |
| 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 |
| Academic Track | China University of Petroleum (UPC) | Shichang Zhang | Do oil prices affect renewable energy development? Empirical evidence from a global framework analysis |
| Academic Track | Beihang University | Rongqi Zhu | Emission Trading Scheme, Technological Innovation, and Competitiveness Evidence from China's thermal power enterprises |
| 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 |
| 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 |
| Academic Track | Renmin University of China | Zida Zhao | Market Structure, the Cap-and-trade Mechanism, and Carbon Emissions Reduction in the Power Sector |
| 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 |
| Academic Track | China University of Petroleum (UPC) | Zhen Cheng | Green Credit and Enterprise Green Innovation in China: A Quasi-Natural Experiment Based on "Green Credit Guidelines" |

| Competing Track | Institution | Author/ Team Leader | Title of Entry |
|------------------------|--|----------------------------|--|
| Academic Track | Sinopec International Exploration and Production Corporation | Yongjie Hu | Estimates of carbon dioxide emission and terrestrial ecosystem carbon sinks in China |
| Academic Track | University College London (UK) | Lu Cheng | Dirty skies lower China's subjective well-being |
| Academic Track | Chongqing University | Hao Zheng | Examining the internal-structural effects of internet development on China's urban green total factor productivity |

Best Practice Award

| Competing Track | Type of Entry | Institution | Author/ Team Leader | Title of Entry |
|------------------------|-------------------------------------|---------------------------------------|----------------------------|--|
| Practice Track | Innovation & Entrepreneurial Design | China University of Petroleum-Beijing | Xintong Rao | Carbon Zero Technology -The leader of carbon sequestration and monitoring in carbon neutralization |

Excellence Award

| Competing Track | Type of Entry | Institution | Author/ Team Leader | Title of Entry |
|------------------------|-------------------------------------|---|----------------------------|---|
| Practice Track | Innovation & Entrepreneurial Design | SINOPEC Research Institute of Petroleum Engineering Overseas Center | Lulu Liao | PG_Intelligent Platform Business Plan (Software Dev. & Web Service) |
| Practice Track | Innovation & Entrepreneurial Design | China University of Petroleum-Beijing | Rong Zheng | Smart and efficient foam fracturing leader under double carbon target |
| Practice Track | Research Report | Southwest Petroleum University | Ziyuan Li | Carbon Dioxide Transportation and Storage Technology Investigation |
| Practice Track | Innovation & Entrepreneurial Design | China University of Petroleum (UPC) | Hongpeng Lv | Green Source |

| Competing Track | Type of Entry | Institution | Author/ Team Leader | Title of Entry |
|------------------------|-------------------------------------|---|----------------------------|---|
| Practice Track | Research Report | Central University of Finance and Economics | Yiwen Li | Research Report on Carbon Peak and Carbon Neutralization in XX City |
| Practice Track | Innovation & Entrepreneurial Design | China University of Petroleum-Beijing | Wei Shan | Business Plan of ZhongShi New Material Group |
| Practice Track | Research Report | Tianjin University | Wenjuan Xu | Investigation on Public Response Based on Low Carbon Economy, Energy Conservation and Emission Reduction based on VAR Model |
| Practice Track | Research Report | China National Petroleum Corporation | Wenting Hou | Multiple Solutions to the International Fund Management Innovation for Multinational Petroleum Enterprises and the Practice |
| Practice Track | Research Report | PetroChina Planning & Engineering Institute | Zhengrong Li | "Coal to Gas" Clean Heating in the North of China Research Report |
| Practice Track | Innovation & Entrepreneurial Design | Xi'an Jiaotong University | Shiqin Kong | High hardness self-lubricating ceramic coating for piston aero engines |
| Practice Track | Policy Proposal | China University of Petroleum-Beijing | Xiaocao Shi | Some Analysis and advice on Achieving Carbon Neutrality and Promoting Energy Structure Transformation |
| Practice Track | Policy Proposal | University of Alberta | Panpan Zhang | Golden and Green- A proposal for carbon emission rights allocation and trading |
| Practice Track | Policy Proposal | Central University of Finance and Economics | Jingyi Ren | Analysis of the Coupling Coordination of Green Finance and Green Total Factor Productivity-- Empirical analysis based on provincial |

| Competing Track | Type of Entry | Institution | Author/ Team Leader | Title of Entry |
|------------------------|-------------------------------------|---------------------------------------|----------------------------|--|
| Practice Track | Research Report | China University of Petroleum-Beijing | Shizhong Cheng | Low Carbon To Meet Future |
| Practice Track | Innovation & Entrepreneurial Design | China National Petroleum Corporation | Wenting Hou | Top-level Management Framework of Derivatives for China Energy Enterprises |

Outstanding Performance Award

| Competing Track | Type of Entry | Institution | Author/ Team Leader | Title of Entry |
|------------------------|-------------------------------------|--|----------------------------|---|
| Practice Track | Innovation & Entrepreneurial Design | China University of Petroleum (UPC) | Tong Wu | Natural Gas Pipeline Leak Detection and Early Warning Scheme |
| Practice Track | Innovation & Entrepreneurial Design | China University of Petroleum-Beijing | Xinshu Guo | Carbon-neutrality Foams Engine —— Clean development mode of energy |
| Practice Track | Innovation & Entrepreneurial Design | China University of Petroleum (UPC) | Yubin Zhang | Nondestructive Testing and Intelligent Monitoring System of Ultradeep Water Multipurpose Flexible Pipe Based on Infrared Thermal Imaging Technology |
| Practice Track | Innovation & Entrepreneurial Design | China University of Petroleum-Beijing | Yongjie Zhao | Energy Saving and Emission Reduction - Replacement of Fuel Cell Core Materials - N-PAC Catalyst |
| Practice Track | Innovation & Entrepreneurial Design | Tianjin University | Xiaoyuan Li | INTEGRATED ENERGY SYSTEM OPTIMIZATION PLANNING SOFTWARE |
| Practice Track | Innovation & Entrepreneurial Design | China University of Petroleum (UPC) | Guoxiang Tang | Design of innovative equipment for efficient recovery of natural gas hydrate based on energy separation effect |
| Practice Track | Policy Proposal | Sinopec International Petroleum Exploration and Production | Yifang Wu | Enlightenment of Operating Strategy of Overseas Oil Companies Under Low-carbon Transition to Development of China's Oil and Gas Industry |

| Competing Track | Type of Entry | Institution | Author/ Team Leader | Title of Entry |
|------------------------|----------------------|---|----------------------------|--|
| | | Corporation (SIPC) | | |
| Practice Track | Policy Proposal | PetroChina International Co., Ltd. | Qiang Wei | China's Energy Transition Under Energy Security Challenges |
| Practice Track | Policy Proposal | CNOOC International | Hao Zhang | Policy Proposal on Comprehensive Development of Far-reaching offshore energies |
| Practice Track | Policy Proposal | China University of Petroleum-Beijing | Lv Zexuan | Some suggestions for the energy transition |
| Practice Track | Research Report | Blue Stone | Zhijie Shan | Study on Comprehensive Utilization of Crop Straw in China for the Realization of Double Carbon Goal |
| Practice Track | Research Report | Tsinghua University | Yuwei Weng | Opportunities and challenges for power companies in the construction of the national carbon market |
| Practice Track | Research Report | Sinopec International Petroleum Exploration and Production Corporation (SIPC) | Hongna Qu | Carbon Emission Reduction Achievement by Using New Technology in Sinopec International Petroleum Company- Sinopec Canada leading by Action |
| Practice Track | Research Report | China University of Petroleum-Beijing | Weidong Yang | Techno-economic evaluation and future feasibility analysis of green power hydrogen production |
| Practice Track | Research Report | China University of Petroleum (UPC) | Deshui Yu | Integration study of large span light alloy tank roof and surface functional coating |

Best Voice Award

| Competing Track | Institution | Title of Entry | Nationality/ Country | Member(s) |
|-----------------|---|--|----------------------|--|
| Voice Track | CNODC BRASIL PETROLEO E GAS LTDA | CNPC Low-carbon practices in deep-water and ultra-deepwater oil gas exploration and production in Brazil | Brazil | Jian Zhao, Tarcilio Dutra, Bruna Viana, Yuguai Zhang, Yueleizhang, Jie Zhang |

Excellence Award

| Competing Track | Institution | Title of Entry | Nationality/ Country | Member(s) |
|-----------------|----------------------------------|--|----------------------|--|
| Voice Track | LEARNBYRESEARCH | India's path to carbon neutrality | India | INFANT RAJ STEPHENRAJ |
| 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 | China | Ruijia Wang, Zheng Zhang |
| Voice Track | 中国石油拉美公司 | Carbon fertilization in the Amazonas through CO2 capture an innovative chance to face climate change | Venezuela | Rui Huang, Francisco Quevedo, Edgar Martine, Baorui Ji |
| Voice Track | ANDES PETROLEUM ECUADOR LTD. | Practice of low carbon development in Andes Petroleum Ecuador LTD | Ecuador | Taoran Feng, Gabriela, Shuangjie Dai, Xianglin Xu, Javier, Zhengwei Liang, Jing Liang, Ruben, Fabrizio, Gabriele |
| Voice Track | 中油国际（秘鲁）公司 | THE CLIMATE CHANGE AND ENERGY TRANSITION IN PERU | Peru | Shiqun Li, MELISSA HE, Stephanie Herrera |
| Voice Track | ASIA GAS PIPELINE (AGP) | | Kazakhstan | 阿依格丽木·奥斯潘巴耶娃 |

| Competing Track | Institution | Title of Entry | Nationality/ Country | Member(s) |
|------------------------|---|---|-----------------------------|---|
| Voice Track | Repsol Sinopec Resources UK | Repsol Sinopec - Committed to Energy Transition | United Kingdom | Yue PANG, Andrew WRIGHT, Chen XU, Anna BARRON, Cong ZHANG, Claire Garden, Craig ANGUS |
| Voice Track | Sinopec International Petroleum Exploration and Production Corporation (SIPC) | Sinopec Canada New Technology Application and Emission Reduction Practices Video | Canada | SIPC Carbon Reduction Research Group: Hongna Qu, Xinran Gong, Ryan Hansen, Jue Wang, Perry Roney, Wei Liu |
| Voice Track | Xinjiang Oil Field Company | Development of CCS (CCUS) in Xinjiang Oil Field Company | China | Haihai Dong, Xu Ren, Piao Xu, Xianwei Hu, Chao Yan, Xunchen Cao, Jie Li, Li Teng, Yan Ye, Yongjing Hu, Jingchen Zhang, Xiaojing Luo |
| Voice Track | 中国石油安全环保技术研究院有限公司 | Progress and Trend of Greenhouse Gas Accounting in Petroleum and Petrochemical Industry | China | Wenjia Xu |
| Voice Track | Gubkin University of Oil and Gas | Analysis of emission reduction projects in the petroleum industry | Russia | ESGubkin: Zenovskaya Anna, Mironova Marina, Hudyakova Evangelina |
| Voice Track | City University of Hong Kong | Sprouting Hong Kong: the Path to Carbon Neutrality | China | Boyu Liu, Yaying Zeng, Minghao Zheng, Ziyi Wang |
| Voice Track | China University of Geosciences Beijing | Energy Conservation of the Ocean-Leave the Blue to the Sea | China | Danyang Zhai, Tongbang Zeng, Hao Fan, Feiyang Liu |

| Competing Track | Institution | Title of Entry | Nationality/ Country | Member(s) |
|------------------------|---|---|-----------------------------|---|
| Voice Track | China University of Petroleum-Beijing | Energy Conservation-together for a shared future | China | Jiaming Yu, Yi Shu, Haowen Duan, Shengzhao Wang, Yumin Zhang, Yanfei Su, Ashyrov Agamamme, Takudzwa Duncan Maluw, Chenxi Chen, Yongjie Zhao, Xinzhu Zheng |
| Voice Track | 中油国际（尼日尔）上游项目公司 | Low Carbon & Green Development in Sahara Desert | Niger | Qingling Liu, Zheng Zhang, Issaka Baare, Gaya Abdourahamane |
| Voice Track | CNOOC International Limited | Governing a country's energy Transition is like cooking small fish. | China | Wang Jianrong, Barnaby Nichols |
| Voice Track | JSC "CNPC International Aktobe Petroleum" | Green and low-carbon future on The Belt and Road | Kazakhstan | Hongge Jia, Т и т о в а E.B, Chunyu Li, Кириллова Ю. С, Расмагамбетова А.Г, Weiping Feng, Умбеталиева К.У |
| Voice Track | China University of Petroleum-Beijing | Paper or Paperless | China | Xinyi Xia, Yanrui Sun, Xintong Guo, Wenqi Wang, Zhizhen Yang, Yunjing Ma, Keyu Cao |
| Voice Track | China University of Petroleum-Beijing | Dimming the light, brightening the future | China | Bingmao Song, Yiru Gao, Ting Lei, Fengyang Xin, Danyi Zou |

*Listed in no particular order

Outstanding Performance Award

| Competing Track | Institution | Title of Entry | Nationality / Country | Member(s) |
|-----------------|--|---|-----------------------|---|
| Voice Track | N'Djamena Refinery Company | Development of oil refining industry and environment protection of Chad | Chad | Xuefeng Li, Achta Hamid, Pan Zhang, Mahamat Nour Massar, Akotmo Jesus, Hong Yang, Noubaissem Christian |
| Voice Track | SINOPEC International Petroleum Exploration and Production Corporation | Team Next_Bet on SIPC | China | Xinran He, Boyang Du |
| Voice Track | 苏丹 6 区项目 | Environment Protection in Sudan by CNPC NILE | Sudan | Jingyi Yang, Rida A. Farid, Khalid Abdelrahman Bakrawi, Siyu Chen, Yong Yang |
| Voice Track | 中国石油尼罗河公司 | Climate change in South Sudan | South Sudan | Qi Liu, William Zakaria, Heng Liu |
| Voice Track | PetroKazakhstan | Green and high-quality development of PetroKazakhstan | Kazakhstan | Enjie Zhao |
| Voice Track | PetroChina (Halfaya) | Promoting the Green Development of the Belt and Road-Practices of Energy Conservation and Emissions Reduction in Iraqi Halfaya Oilfield | Iraq | Wen Ouyang, Alaa Aldin Megbel Yasee, Vusal Mammadov, Yanhui He, Feng Liu, Akli Kifouche, Xiaozhen He, Jean-Gabriel Affonco, |

| Competing Track | Institution | Title of Entry | Nationality / Country | Member(s) |
|------------------------|---|--|------------------------------|--|
| | | | | Shuoyi Ren, Xin Chen |
| Voice Track | BOZOY-SHYMKENT GAS PIPELINE | Environmental Protection Practice of Beineu-Shymkent Gas Pipeline in Kazakhstan | Kazakhstan | Yang Feng, Bayan Zhakupova, Rustam Safiullin |
| Voice Track | 中塔天然气管道公司 | Importance of using natural gas for energy conservation, emission reduction and environmental protection | Tajikistan | Saidov Umedjon |
| Voice Track | ATG UCS1 Station | One sky One dream | Uzbekistan | Shizheng Tao, Wenbin Wang, Nosir Karimov |
| Voice Track | Sinopec International Petroleum Exploration and Production Corporation (SIPC) | The application of big data technology in international carbon emissions | China | Yao Zhao |
| Voice Track | Sinopec International Petroleum Exploration and Production Corporation (SIPC) | The great chain against CO2 | France | Guillaume, Enyu Zhang, Yuan Yao, Huihan Cao |
| Voice Track | University College Dublin (Ireland) | Energy Consumption and Renewable Energy in Ireland | Ireland | Yibing Wang,Ziao Wang |
| Voice Track | China University of Petroleum-Beijing | Climate Change and Low-Carbon Economy in Saudi Arabia | China | Qin Li, Sara Girmay, Hanyue Liu, Jincai Liu |
| Voice Track | China University of Petroleum (UPC) | Energy Conservation and Emission reduction | China | Huidi Wu, Siqi Huang, Shuqi Yu |
| Voice Track | China Petroleum | The light | China | Boyi Miao |

| Competing Track | Institution | Title of Entry | Nationality / Country | Member(s) |
|------------------------|---------------------------------|---|------------------------------|-------------------------------------|
| | Engineering & Construction Corp | | | |
| Voice Track | 中油国际-土库曼斯坦公司 | A shared Future | Turkmenistan | Hao Xu, Marksat, Xin Zhang |
| Voice Track | Beijing Jiaotong University | South African efforts to achieving Clean Energy | South Africa | Venolia Ncokazi, Vuyo Edwin Ncokazi |

*Listed in no particular order

Best Idea Award

| Competing Track | Institution | Title of Entry | Nationality / Country | Member(s) |
|------------------------|--|-----------------------|------------------------------|----------------------|
| Voice track | SINOPEC International Petroleum Exploration and Production Corporation | Team Next_Bet on SIPC | China | Xinran He, Boyang Du |

*Best Organization Award: to be announced