第十七届全国大学生节能减排社会实践与科技竞赛 港澳台及国际赛道获奖名单

经 2024 年 8 月 6 日全国大学生节能减排社会实践与科技竞赛委员会评审表决通过,第十七届全国大学生节能减排社会实践与科技竞赛港澳台及国际赛道共有 8 件作品被评为金奖、12 件作品被评为银奖、25 件作品被评为铜奖。

获奖名单公示如下(排名不分先后):

作品 编号	作品名称	参赛高校	团队成员	奖 项
17-14	"Purely Electric Smart Motion, Benefiting Future Generations"—High-Efficiency "Flow Control + Thermal Management +Flexibility" Pumping Device Based on EHD Principle	Saint-Petersburg State University	Fangyuan Zhou 、Jingyu Li 、Shilin Yang 、Yuqiao Cheng 、Yun Qiao	金奖
17-25	A milti-functional device for high-efficiency hydrogen production based on long-term solar desalination	Moscow Aviation Institute	Juncheng Shen、Jiaqi Wei、Tong Wu、 Kaiyan Liu、Nan Yang	金奖
17-33	Sharing "light" with "alcohol" - based on semi-artificial photosynthetic system of carbon fixation and alcohol production device Design specification	University of Cincinnati	Qianle Yang 、Siyi Zhang 、Yuwei Song 、Lei Zhang 、XueJie Yan 、Shiwen Zheng	金奖
17-85	Lubrication Manage—Online Lubricant Monitoring System for Marine Diesel Engine	University of Southampton	Chengtai Ge 、 Chengjin Ding 、 Wenzhuo Liu、 Heru Wang 、 Guang Sun 、 Xiaojian Nie 、 Ran Zhao	金奖
17-86	Carbon Cycle Regeneration, Green Lungs of Industry-The Intelligent Retreatment System of Industrial Waste Gas Based on Artificial Photosynthesis	The Hong Kong Polytechnic University	Chuncheng Zhou、Shenghong Xie、 Wenxiao Zhu、 Xinyu Pan、 Yuran Dai、 Zheng Yan、 Xin Liu	金奖
17-108	Ripples of crystal clear water——An integrated hydrophilic-hydrophobic bilayer Janus vertical microchannel structure solar evaporator based on 3D printing	Nanyang Technological University	Pinshu Wang Tingting Men Xiaoting Wen Guifu Hu Jin Su	金奖
17-110	Blue Carbon Pioneer—— Integrated Offshore Carbon Capture and Conversion Unit	Bauman Moscow State Technical University	Ruitong Liu、Liting Wang、Zikang Xu、 Xiang Yao、 Hangyu Li、 Yuanyuan Feng、 Qingyue Qi	金奖
17-142	Bona Surplus Micro Thermal Escape Efficient Thermal Management Solution for Concentrating Photovoltaic Panels	University of London	Zitong Guo 、Ye Liu 、Ke Wang 、 Chenglin Wang 、Yihe Zhang 、Zijian Xu 、Yukun Liu	金奖

			Chair M. Will II. Di Li	
17-11	"Hydrogen" for the future - Design for a		Chutian Hu 、 Yijian Liu 、 Bingbing	
	portable hydrogen storage device based on	Brunel University	Huang Vongyi Liu Liang Wang	银奖
	high capacity borohydride		Shuai Liu、Fengan Guo	
17-24	Vitality Trail- Solar Based Coupled Treading Power Generation Floor	The Chinese	Jinru Tian 、Ziyan Xiao 、Xiangrui	
		University of Hong	Zeng 、 Hang Meng 、 Zihan Qi 、	银奖
		Kong	Hongshen Xia	
		Bauman Moscow	Xuze Han Liting Wang Yueyang	
17-44	Dongrui Clean water - rural brackish water	State Technical	Yang、Kai Hu、Sizhu Zhang、Yijia	银奖
	resource utilization pilot design specification	University	Yang、Ruitong Liu	
			YuXin Dong , Yuxin Dong , Wenchuan	
17-51	Hazard Hunter- Smart waste sorting trolley	Heriot-Watt	Zhang Dapeng Mo Yirui Fu Zhuoyu	银奖
1, 01	solution	University	Wu, Hao Yin	以大
		Ouesan Mem		
17.55	S-WAVE Technology-Navigator in Wave-	Queen Mary	Zhaoxiaohan Shi , Yiming Liu , Liu	<i>-</i> 1/2
17-55	Absorbing Coatings for Wind Farm	University of	Yang, Yishan Yao, Zhihao Wang,	银奖
		London	Haozhe Liang	
	A New design of ammonia-hydrogen engine		Xiaojian Nie Wenzhuo Liu Jiayi Du	
17-75	based on the modification of ammonia thermal	University of	Heru Wang Yifan Xiong Xinyang	银奖
	cracking and low temperature combustion of	Southampton	Wang Yilong Ma	III.
	exhaust gas		Wang Thong Ma	
	Solid waste rebirth ——exterior wall		Chen Wang Chenrui Hong Yanan	
17-84	insulation and decorative integrated board	Western University	Chen, Bingchen Liu, Yibo Hu,	银奖
	based on yellow gypsum intelligent treatment		Xinming Wang 、 Xin Yu	
	W (611)	Swinburne	Jun Ma 、Huajie Li 、 Rui Hou 、	
17-96	Manifold integrated loop heat pipe chip heat sink	University of	Zhuxiang Wang , Huayang Gao ,	银奖
		Technology	Lianhao Feng、 Ke Tang	
	Continuous flow system for solid acid		Ruihan Zhao 、Jiayi Fu 、 Chuyuan	
17-109	catalysed hydrolysis of lignocellulosic	University of Cincinnati	Wang , Jiwei Du , Xiang Li ,	银奖
	biomasses		Shihuang Hu、 Maolin Wang	
	Fresh future:Intelligent green energy	Nanyang		
17-122	comprehensive optimization scheme design	Technological	Xiyuan Chen, Xueqian Shen, Xinlei	银奖
17-122		Gao、Baige Du、	Gao、Baige Du、Zhongxiang Wang	拟天
	Mizard in the Weter A Leader in Carbon	University	Xuebao Xiong , Zhengyi Hou , Xin Li ,	
17, 100	Wizard in the Water - A Leader in Carbon	Auckland		44 14
17-123	Sequestration and Pollution Reduction Based	University of	Yuru Zheng、Jiani Su、Hangqing Li、	银奖
	on Biological Synergy Design Statement	Technology	Jianhong Pan	
	Hydro energisersaving water and electricity	University College	Tianxin Cao , Eoin Sadlier , Aoife	
17-149	for a more sustainable lifestyle	Dublin	Duffy, Charles. Titus, Salem N S A	银奖
	•		Alajmi , Jacob Walsh	
	"Sun Harvestor"——A new type of self-driven intelligent kale harvesting device	University of Detroit Mercy	Youwei Wang, Yanbo Zhu, Yuda	
17-05			Kong, Zhifei Cui, Jiangtao Wang, Ziqi	铜奖
	diven interngent kare narvesting device		Gao, Jiahao Peng	
	"3E Green Source" - Intelligent Energy-	The Chinese	Youjing Su, Guanfu Zhong, Jingnan	
17-06	Efficient Industrial Park System Design	University of Hong	Lv, Ruolin Xu, Yixuan Zhao, Junqi	铜奖
	Specification	Kong	Cheng, Siyu Li	
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	A Biomimetic Octopus Cleaning Robot		Rouna Jin, Xinyue Li, Xingzhe Ma,	
17-07	Powered by Ocean Motion and MFCs —	Hongik University	Yufei Wang, Weipeng Liang, Siyuan	铜奖
	Ocean Energy Sampler		Cao, Shixuan Yang	
	Wave energy harvesting device based on a		Dayi Cai, Qianyu Chen, Keyu Chen,	
17-12	unidirectional turntable triboelectric	Keuka college	Yuhan Chen, Yingxian Wang, Suxuan	铜奖
	nanogenerator		Zhou, Yuqiang Lei	
			Jinhao Kang, Hongyang Zhou, Jianhao	
17-23	Optical Fiber Based Intelligent Solar Lighting	University of	Geng, Youkang Jin, Chenhui He,	铜奖
	and Photovoltaic Power Generation System	Manitoba	Ruiting Meng, Jinchao Guo	
	Intelligent Floating Island: Automated Sea,	The University of	Meiqi Chang, Xinyue Liu, Qinyin Gao,	
17-31	Land, and Air Cleaning	British Colmbia	Yanfeng Zeng	铜奖
	Land, and Air Cleaning	British Comion	Minxing Huang, Qianyi Xiong,	
17.22	Raft-based TENG and solar-powered OPEN	University of		细妆
17-32	mv-type garbage sorting and salvage vessel	Macau	Yangfei Sun, Liu Yi, Jingyi Huang,	铜奖
			Benyu Huang, Qiwen Chen	
	Photovoltaic Guard - PV Power Panel	Maynooth	Rui Li, Jing Ren, Zhixin Gao, Yusen	t
17-36	Cleaning and Maintenance Robot System	University	Zhao, Guigui Cui, Zhiyuan Zhang,	铜奖
	Design Specification	-	Kaiqiang Liu	
	Residual heat warms the winter - Design of	National University of Singapore		
	battery thermal management system and		Yan Ding, Yingna Chen, Mengwei He,	
17-45	thermostatic heated seat based on phase		Qingzhao Zheng, Jianbin Qiu,	铜奖
	change energy storage and mini-channel		Jiacheng Deng, Zhenting Pan	
	cooling design specification			
	Turning Waste into Valuable—A Small		Yubo Xu, Kaili Li, Zhengen Wang,	
17-48	Multifunctional Intelligent Recycling Device	Durham University	Tingting Lin, Yinrong Xie, Jiaqi Ye,	铜奖
	for Disposing Takeaway Plastic Waste		Haojie Jin	
	A visual hydrogen leak alarm system	Imperial College of Science	Xun Liu, Xin Ye, Yizhan Wu, Mingyu	
17-70	that promotes hydrogen energy use		Lin, Ziyu Zhang, Yuang Chen, Shutao	铜奖
	and reduces carbon emissions		Huang	
	iCooling——Battery heat sink based on	The Hong Kong	-	
17-74	copper foam-hydrogel and thermoelectric	Polytechnic	Zexin Li, Yongqiang Yu, Lianbo Xu,	铜奖
	cooler	University	Chenhao Guo, Luchen Liu, Yiling Liu	
	"Building Dreams in the Blue Sky"	Chivelency	Pengze Song, Jinbo Zhao, Jiahang Li,	
17-76	Instruction Manual for Modular Small Civil	Tomsk Polytechnic	Zhiyi Liu, Zhezhe Ran, Runing Wang,	铜奖
17-70		University	, , , , , , , , , , , , , , , , , , , ,	抑夫
	Cooking Fume Purification System		Huaqun Zhao	
	Precision pesticide application system for	University of	C Liu, Tianyi Xia, Zhijie Xiong,	£ 14
17-82	strawberry planting	Exeter	Qiancheng Zhang, Yuhang Chen, Yue	铜奖
			Wang, Jingjing Hou	
	"Laboratory Assistant"——An Intelligent	Federation	Hanzhi Cui, Jiazi Lv, Yutong Dong,	
17-90	Control device for Environmental samples	University	Shaoyang Fan, Jingze Sun, Xiaoyue	铜奖
	based on IOT	Australia	Zhang	
17-101	Advanced bio-based separator leader with a	University of waikato	Chenxiao Li, Yihang Zhang, Jiahe Xu,	
	•		Jiaai Hu, Manman Li, Yiqing Zhang,	铜奖
	high safety for lithium-ion batteries		Mengfan He	
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17-105	Synthesis of covalent organic skeleton materials based on precise calculation achieve energy conversion and pollutant degradation	Bauman Moscow State Technical University	Meihui Chen, Yuhan Xiong, Rui Su, Shiran Liu, Yang Zhou	铜奖
17-106	Technology and equipment for efficient treatment of rural sewage based on anaerobic ammonia oxidation and sulfur autotrophic denitrification process	University College Dublin Belfield	Mengqing Liu, Qingqing Ji, Haoran Liang, Jiaxin Ma, Jiahui Wang, Yiping Gao, Chenxin Wang	铜奖
17-116	A Resin-wafer Electrodeionization (RW-EDI) and Membrane Contactor Hybrid System for Simultaneous Ammonia Recovery and Carbon Reduction from Organic Solid Waste	University of Seoul	Subeen Jang, Le Tang, Jiaqi Yin, Yali Luo, Ting Yan, Jaeduck Jung, Haeun Oh	铜奖
17-121	Controlled Energy Technology - The Enabler of Controllable Electronic Controls for Engine Fuel Systems	University of Southampton	Wenzhuo Liu, Heru Wang, Wanpeng Xu, Xiaojian Nie, Zikun Zhou, Chengze Li, Qiao Gao	铜奖
17-124	Emergency Freeze Therapy ——a Solar- Powered Warming Sleeping Bag Designed for Injured Personnel in Severe Cold Conditions	The University of Tokyo	Yan Ji, Zhikai Wang, Haoqi Li, Zhongyuan Zhang, Yibing Gai, Ziyi Bai	铜奖
17-132	Industrial low-grade complex slurry waste heat recovery based on flash evaporation technology	Moscow Aviation Academy	Yuzhu Meng, Heqiu Huang, Xiuzhuo Chen, Tianyang Wei, Xinyu Gao, Shenghao Liu	铜奖
17-137	Exploration of the Implementation Mechanism for Low-carbon Price Window Period CCER Project Methodology	Xiamen University Malaysia	Zhejia Cheng, Chuying Fang, Wanyun Ai, Fan Fang, Zhiyi Jiang, Shuren Wang, Bodi Kou	铜奖
17-140	Carbon Thermal Synergy, Turning Waste into Treasure — Flue Gas and Wastewater Treatment as well as Resource Recovery System in Breweries	University of Cincinnati	Zidi Zhu, Hongxia Peng, Linghao Diao, Chengjing Huang, Ruixuan Yang	铜奖
17-145	A solar - driven integrated system with functions of desalination, power generation and crop irrigation	Bauman Moscow State Technical University	Han Liu, Meng Wang, Silin Guo,Shuailin Qiu, Huanbin Yang, Xuanduo Ning, VLADIMIR BUROV	铜奖

公示时间: 2024年8月8日-2024年8月14日(含)。

全国大学生节能减排社会实践与科技竞赛委员会秘书处中国石油大学(华东)新能能源学院 2024年8月8日