## 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 决通过并公示后,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 Meng 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 At Division	
	"Hydrogen" for the future - Design for a		Chutian Hu 、 Yijian Liu 、 Bingbing	
17-11	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	
	Dongrui Clean water - rural brackish water resource utilization pilot design specification	Bauman Moscow	Xuze Han Liting Wang Yueyang	
17-44		State Technical	Yang、Kai Hu、Sizhu Zhang、Yijia	银奖
İ		University	Yang、Ruitong Liu	
	Hazard Hunter- Smart waste sorting trolley solution	Heriot-Watt University	Yuxin Dong Wenchuan Zhang	
17-51			Dapeng Mo、Yirui Fu、Zhuoyu Wu、	银奖
1, 51			Hao Yin	<b>以大</b>
		Overn Mem		
1.5.5	S-WAVE Technology-Navigator in Wave-	Queen Mary	Zhaoxiaohan Shi , Yiming Liu , Liu	40 V/a
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 Vilong Ma	
	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	
		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	w.K
	Fresh future:Intelligent green energy	Nanyang	Similaring Truck Trianing Truck	
17 122	comprehensive optimization scheme design	, ,	Xiyuan Chen 、Xueqian Shen 、Xinlei	细物
17-122		Technological	Gao, Baige Du, Zhongxiang Wang	银奖
	manual	University	xy 1 xy	
	Wizard in the Water - A Leader in Carbon	Auckland	Xuebao Xiong 、Zhengyi Hou 、Xin Li 、	40 V4
17-123	Sequestration and Pollution Reduction Based	University of	Yuru Zheng , Awen Ma , 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
	more susuamater mostly to		Alajmi 、Jacob Walsh	
	"Sun Harvestor"—A new type of self-	University of	Youwei Wang, Yanbo Zhu, Yuda	
17-05			Kong, Zhifei Cui, Jiangtao Wang, Ziqi	铜奖
	driven intelligent kale harvesting device	Detroit Mercy	Gao, Jiahao Peng	
17-06	"3E Green Source" - Intelligent Energy-	The Chinese	Youjing Su, Guanfu Zhong, Jingnan	
	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, Qinyu Chen, Keyu Chen,	
17-12	unidirectional turntable triboelectric	Keuka college	Yuhan Chen, Yingxian Wang, Suxuan	铜奖
	nanogenerator		Zhou, Yuqing 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	21320
	Intelligent Floating Island: Automated Sea,	The University of		
17-31	-	The University of	Meiqi Chang, Xinyue Liu, Qinyin Gao,	铜奖
	Land, and Air Cleaning	British Colmbia	Yanfeng Zeng	
	Raft-based TENG and solar-powered OPEN	University of	Minxing Huang, Qianyi Xiong,	
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	
17-36	Cleaning and Maintenance Robot System	•	Zhao, Guigui Cui, Zhiyuan Zhang,	铜奖
	Design Specification	University	Kaiqiang Liu	
	Residual heat warms the winter - Design of			
	battery thermal management system and		Yan Ding, Yingna Chen, Mengwei He,	
17-45	thermostatic heated seat based on phase	National University	Qingzhao Zheng, Jianbin Qiu,	铜奖
	change energy storage and mini-channel	of Singapore	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
17-40	for Disposing Takeaway Plastic Waste	Dumain University	Haojie Jin	M) A
17.70	A visual hydrogen leak alarm system	Imperial College of	Xun Liu, Xin Ye, Shutao Huang,	<i>+</i> □ 1/2
17-70	that promotes hydrogen energy use	Science	Yizhan Wu, Mingyu Lin, Yuang Chen,	铜奖
	and reduces carbon emissions		Ziyu Zhang	
	iCooling——Battery heat sink based on	The Hong Kong	Zexin Li, Yongqiang Yu, Lianbo Xu,	
17-74	copper foam-hydrogel and thermoelectric	Polytechnic	Chenhao Guo, Luchen Liu, Yiling Liu	铜奖
	cooler	University		
	"Building Dreams in the Blue Sky"	Tomsk Polytechnic	Pengze Song, Jinbo Zhao, Jiahang Li,	
17-76	Instruction Manual for Modular Small Civil	University	Zhiyi Liu, Zhezhe Ran, Runing Wang,	铜奖
	Cooking Fume Purification System	Chiversity	Huaqun Zhao	
	Production model to the control of	Hariaga is a	C Liu, Tianyi Xia, Zhijie Xiong,	
17-82	Precision pesticide application system for	University of	Qiancheng Zhang, Yuhang Chen, Yue	铜奖
	strawberry planting	Exeter	Wang, Jingjing Hou	
	"Laboratory Assistant"——An Intelligent	Federation	Hanzhi Cui, Jiazi Lv, Yutong Dong,	
17-90	Control device for Environmental samples	University	Shaoyang Fan, Chunbo Shi, Jingze	
	based on IOT	Australia	Sun, Xiaoyue Zhang	
			Chenxiao Li, Yihang Zhang, Jiahe Xu,	
17-101	Advanced bio-based separator leader with a	University of waikato	Jiaai Hu, Manman Li, Yiqing Zhang,	铜奖
	high safety for lithium-ion batteries			刑大
		1	Mengfan He	

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

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19日