## 2024 Net Zero Tech International Contest @Taiwan

## **International Contest-The Finalist**

## < Serial No. in order of application >

No.	Work Title	Position	Name	School	Department
	Superhydrophobic Metal-	Advisor	林嘉和	National Taiwan Normal University (Taiwan, R.O.C.)	Department of Chemistry
INITI 04	(MOF) Sponge	Student	陳佳樂		
INTLOT		Student	王昱順		
	Separation	Student	劉鴻恩		
	Application of a Nave	Advisor	Liu Hwa-Dong	National Taiwan	
N N	Application of a New High-Gain Power Converter in Next- Generation Renewable Energy Systems	Advisor	Lin Chang-Hua	University of	Undergraduate Program of Vehicle and Energy Engineering / Department of Electrical Engineering
INTLO2		Student	UI Munieeb Mosaib		
IINTLOZ		Student	Sahito Ahmed Tauseeque		
		Student	Shih Jyun-Wei		
		Student	Chen Wei-Yu		
	Advanced Carbon	Advisor	Kang Dun Yen	National Taiwan University (Taiwan, R.O.C.)	
	Process Technology using Membrane Engineering (ACCEPT-	Student	Wu Po Chun		
INTLO:		Student	Lee Sher Ling		
		Student	Yu Yuan Chen		
		Student	Chang Shou Feng		

No	. Work Title	Position	Name	School	Department
		Advisor	陳建彰		
		Advisor	visor 陳奕君		
	Low-Cost Energy-	Advisor	王孟菊		
	Efficient Atmospheric-	Student	普智暉	National Taiwan	Institute of Applied Mechanics / Graduate
	Pressure Plasma Jet Processed NiCo-	Student	余碩恩	University /	Institute of Photonics and Optoelectronics / Department of Chemical Engineering / Graduate School of Advanced Technology, Program for Nanoengineering and Nanoscience
INTL	Metalorganic Framework	Student	闕振宸	National Taiwan University of	
	Electrocatalyst in Anion	Student	陳奇松	Technology (Taiwan, R.O.C.)	
	Exchange Membrane Water Electrolysis Module	Student	洪柏彥		
		Student	吳幸真		
		Student	謝尚霖		
		Student	董芮妤		
1	Integrating a novel	Advisor	Ou Ting-Chia	National Cheng Kung University	Program on Smart and
INTL05	Coastal Wave Energy  INTL05 Converter and Carbon  Negative Cement for Net	Student	Ju Zhi-Chin		Sustainable Manufacturing /
		Student	Chen Yu-Tung		Program / Bachelor of
Z		Student	Chen Shu-Er		
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No.	Work Title	Position	Name	School	Department
				Hua University (Taiwan, R.O.C.)	
		Advisor	<b>顏鴻威</b>	(raman, raoisi)	Department of Materials
		Advisor	謝宗霖		
· ·	Green and Advanced	Student	Lin Ting-Si	National Taiwan	Science and Engineering / Graduate School of
INTLO	Magnesium-based	Student	Hung Hao-Chun	University	Advanced Technology,
1	Hydrogen Storage Alloy	Student	Chen Bo Xian	(Taiwan, R.O.C.)	Program for Semiconductor Devices, Materials, and Hetero-integration  School of Engineering and Technology / Department of Art, Design and Media, School of Arts
9		Student	Hou Yu Ching		
		Student	Wang Yu Hsiang		
	65	Advisor	Kok Sum Ng	University Tech (Malaysia) Art, D	
		Advisor	Angela Siew Hoong Lee		
		Advisor	Chew Xiang Fu		
		Advisor	Hock Kuen Foong		
INTLO	EcoSphere: A Model for Sustainable and Effective Learning Environment	Student	Jen Looi Tee		
		Student	Deaberniswarar Sharmaa		
		Student	May Mun Yi Yeap		
A		Student	Jonathan Jared Ignacio		
37		Student	Chiao Pin Tan		
		Student	Willion Wei Yen Yap		

	No.	Work Title	Position	Name	School	Department
Ш			Student	Jason Kow	LO.	
l		Adviso	Advisor	吳 煒		792
		Novel process design	Advisor	賴啟銘		
		and validation for decreasing CO2	Student	吳紀昀	National Cheng	Department of Chemical
	INTL08	emission from cement production	Student	張宸語	Kung University (Taiwan, R.O.C.)	Engineering / Department of Civil Engineering
		decarbonization	Student	Mazumdar Debayan		
l	L		Student	曾慶豪		
		Next-Generation Redox-Mediated Bipolar Membrane Electrodialysis: Simultaneous Seawater Desalination and Carbon Capture	Advisor	侯嘉洪	-I Iniversity	Graduate Institute of
			Student	吳旻臻		
	INTLOO		Student	張睿耀		
	INTLUS		Student	高毓蔧		Environmental Engineering
			Student	王柏硯		
			Student	陳怡瑋		
INTL1		process of a photoelectrochemical system with H2 generation for real saline	Advisor	Irene Man Chi Lo	The Hong Kong University of Science and Technology (Hong Kong)	2
	INITI 40		Advisor	Zexiao Zheng		Department of Civil and
	INTL10			Taoran Dong		Environmental Engineering
	sewage treatment: pioneering steps to	sewage treatment: taking pioneering steps towards	Student	Hoi Kit Justin Man		
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No.	Work Title	Position	Name	School	Department
	net zero wastewater treatment technology	Student	Cheuk Wai Lung		
1		Advisor	Wang Huai		
		Student	Wei Xing		
		Student	Zhang Yichi	Aalborg	
INTL11 	E-Sense Power	Student	Liu Yongjie	University (Denmark)	AAU Energy
5		Student	Yao Bo		
		Student	Liu Jiahong		
	Mar 1	Advisor	劉大中		5
	battery enabled by a solid hydrogel electrolyte in both atmospheric and low-temperature conditions	Student	楊融昊	National Yang Ming Chiao Tung University -(Taiwan, R.O.C.)	
		Student	徐晨軒		Department of Biomedical
NTL12			翁永承		/ ///
		Student	林泓証		
		Student	何紹圻		
	The Decarbonizer: A Comprehensive Solution for Waste Reduction and Hydrogen Production	Advisor	Wei Cheng Wang	Kung University / and Astronautics /	Department of Aeronautics
INTL13		Student	Rusdan Aditya Aji Nugroho		Mechanical and Electro-
7/		Student	林明叡		

No.	Work Title	Position	Name	School	Department
ll l		Student	Muhammad Azmi	L. C.	Program on Energy Engineering
		Student	鄭宇	17	
		Advisor	任昊佳		
1	2 4 %	Advisor	何東垣	National Taiwan	Department of Consciences
	Seaweed Afforestation:	Advisor	張睿昇	University /	Department of Geosciences / Research Center for
INTL14	Unlocking the Ocean's Potential for Carbon Sequestration	Advisor	Stephens Brandon		Environmental Changes / Center of Excellence for the Oceans / Institute of Oceanography
8		Student	Tan Carel	Ocean University Oc	
		Student	蔡李人誼		
		Student	嚴語晨		
	Illiandiah Efficiency	Advisor	Jih-Sheng Lai	Virginia Polytechnic Institute and State University (US)	Electrical and Computer Engineering / Mechanical Engineering
	Ultrahigh Efficiency Bidirectional DC-DC Converter for Energy	Advisor	Hsin-Che Hsieh		
INTL1		Student	Bryan Gutierrez		
	Storage and Super Charger Applications	Student	Ching-Yao Liu		
	Charger Applications	Student	Ganesh Rai		
	EcoAlgae	Advisor	Tharushi Prabha Keerthisinghe	IIVIOratiiwa	
INTL16		Student	Isumi De Silva		Department of Chemical and Process Engineering
		Student	Januth Liyanage		
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	No.	Work Title	Position	Name	School	Department
			Student	Janitha Dissanayake		
Ш	1		Student	Gavin Senaratne		
			Advisor	Ardiyansyah Yatim	W T	
l	K		Advisor	Ova Candra Dewi		
l	, '	Coo Dovilo Not Zono	Student	Leonardo Dillon	1	
l	1	Sao Paulo Net Zero  Design and Net Zero  Emission Sustainable  Public Library	Student	Alexander Ganesh Aji Dewanto	University of	Mechanical Engineering / Architecture
	NIL17		Student	Heidy Sekardini	-Indonesia (Indonesia) -	
			Student	Amar Falah Riyanto		
			Student	Farras Hafizh Al Farisi		
II			Student	Vynna Alviolina Indriyana		
li		Bromeliad Library: Achieving Net Zero	Advisor	Ardiansyah Yatim	University of Indonesia (Indonesia)	Mechanical Engineering / Architecture
l			Advisor	Mikhta Farid Alkadri		
INT		Operation in São Paulo through Energy-Efficient	Student	Bimantyo Ganggas Fadhil Ihsani		
	NTL18	Library with Clay Facades, Fog Catchers, and Sustainable Mechanical Systems	Student	Miguel Bintang Samuel		
			Student	Alfian Febrianto		
			Student	Muflikh Kas Yudamaulana		
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No.	Work Title	Position	Name	School	Department
		Student	Alya Widha Aurellia	沙汉	
1		Student	Risma Fitriyanti		
	A Solution for	Advisor	Chen Cheng-Liang		
•	Analysis of Chemicals- based International Renewable Energy	Student	Ong Chong Wei	-National Taiwan University -(Taiwan, R.O.C.)	Chemical Engineering
INTL19		Student	Lien Sheng-Chi		
1		Student	Chang Hao-Chu		
		Student	Wang Wei-Te		
		Advisor	Sandip Kumar Saha		Ž , V
"	for CO2-free space- Stude	Advisor	Chandramouli Subramaniam	Rombay	Mechanical Engineering / Chemistry / Energy Science
INTL20		Student	Anuj Bangad		
		Student	Nikita Vasudev Chitre		and Engineering
uesailiat		Student	Dipin Thacharakkal		





