



Net Zero Tech International Contest @ Taiwan
2024 淨零排放科技國際競賽



國立臺灣大學
National Taiwan University



財團法人東元科技文教基金會
TECO Technology Foundation



教育部
Ministry of Education

Objectives

The “Net Zero Tech International Contest” is designed to cultivate talent development, strengthen industry-academic partnerships, facilitate global technological exchanges, and promote widespread understanding of net zero principles. This initiative aims to secure professional acclaim and establish a significant worldwide impact by:

1. Award significant financial incentives to distinguished professors worldwide for research in net zero and negative emissions technologies, and support educators in guiding future experts in these critical fields.

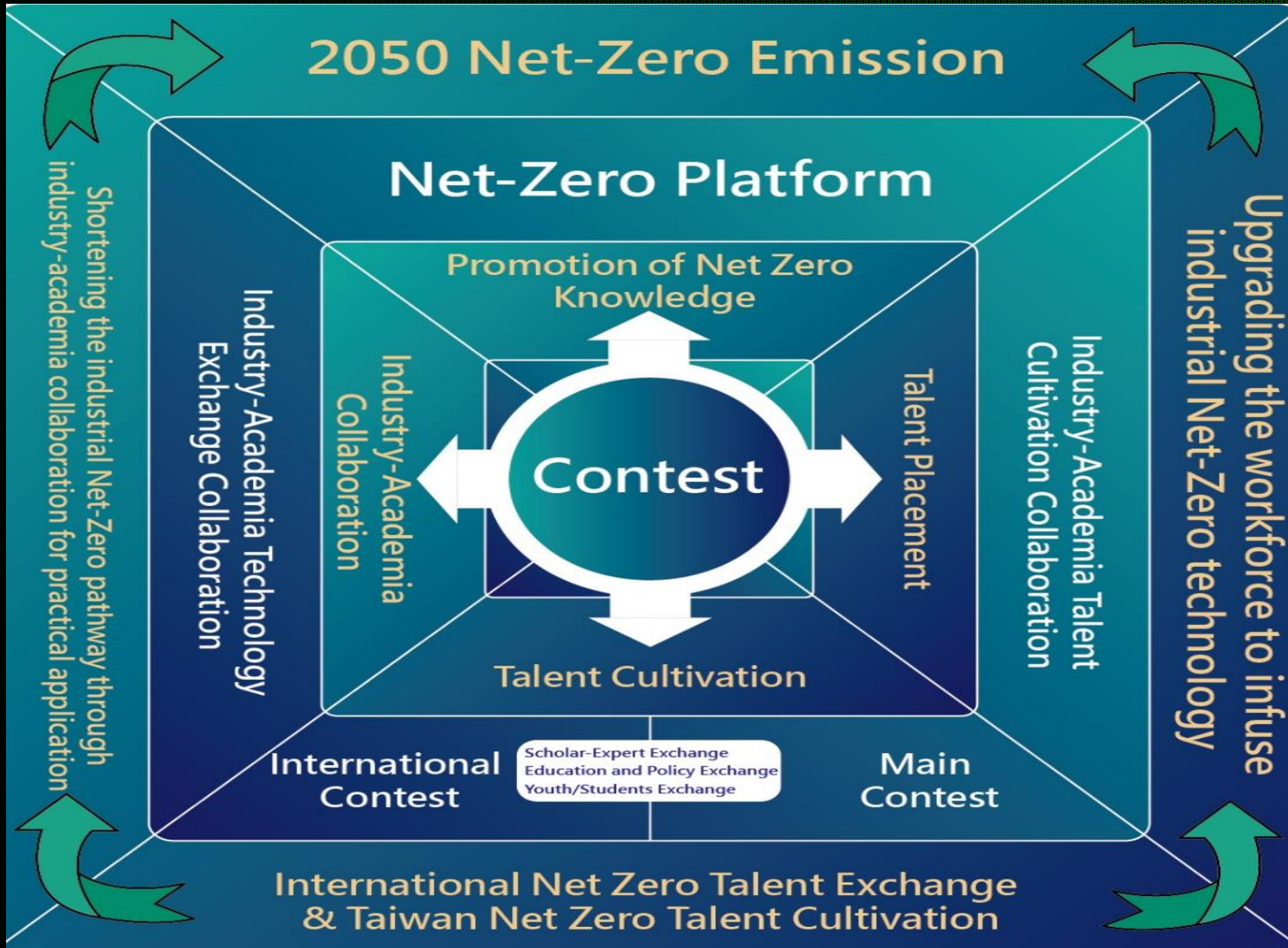


Objectives

2. Establish a “Net Zero” platform to facilitate technical exchange and networking across industry, government, academia, and research sectors.
3. Disseminate net zero knowledge to foster societal consensus and action on energy conservation and environmental protection.
4. Support the four key transformation strategies in energy, industry, lifestyle, and society, driving progress towards a sustainable future.



Net Zero International Contest Ideology Chart



Organizers

National Taiwan University
TECO Technology Foundation
Ministry of Education, R.O.C



Co-organizers

Association of Pacific Rim Universities (APRU)

Industrial Technology Research Institute

Taiwan University Alliance for Sustainable Governance

National Taiwan University System



Sponsors

CPC Corporation

NTU Advanced Research Center of Green Materials Science and Technology

NTU Industry & Academia Development Association

TECO Electric & Machinery Co., Ltd.

Nan Pao Resins Chemical Co., Ltd.

Chen-Yung Foundation

Fubon Financial Holding Co., Ltd.

Hua Nan Commercial Bank Ltd.

Shiny Chemical Industrial Co., Ltd.



Advisory Committee

Ministry of Environment, R.O.C

National Science and Technology Council, R.O.C

Ministry of Economic Affairs, R.O.C



Convener

Dr. Wen-Chang Chen
(President of National Taiwan University)



Contest Theme

Net Zero Tech, covering the following technological domains:

- 1. Renewable Energy (Wind Power, Solar Power, Marine Energy, Geothermal, Hydrogen Energy, Forward-looking Energy...)**
- 2. Advanced Energy Storage Systems, High Efficiency, Low Energy Consumption, Low Carbon Emissions**
- 3. Negative Carbon, Carbon Capture, Storage, and Reutilization Technologies**



Contest Theme

4. Electric Vehicles, Energy-saving Motors, Green Transportation
5. Waste Treatment and Purification Technologies, Resource Circulation and Zero Waste, Green Building
6. Energy-saving Technologies (Production, Manufacturing, Residential and Commercial Buildings, Green Building Design, Life...)



Contest Categories

Main Contest

1. Open to students and faculty from various universities in Taiwan.
2. Participants include undergraduate and graduate students from various universities in Taiwan and their respective advisors.
3. Each team should consist of four members or more (including advisors).
4. Participants can be from different departments or universities.
5. Each person is limited to register in one team (no restrictions on advisors).



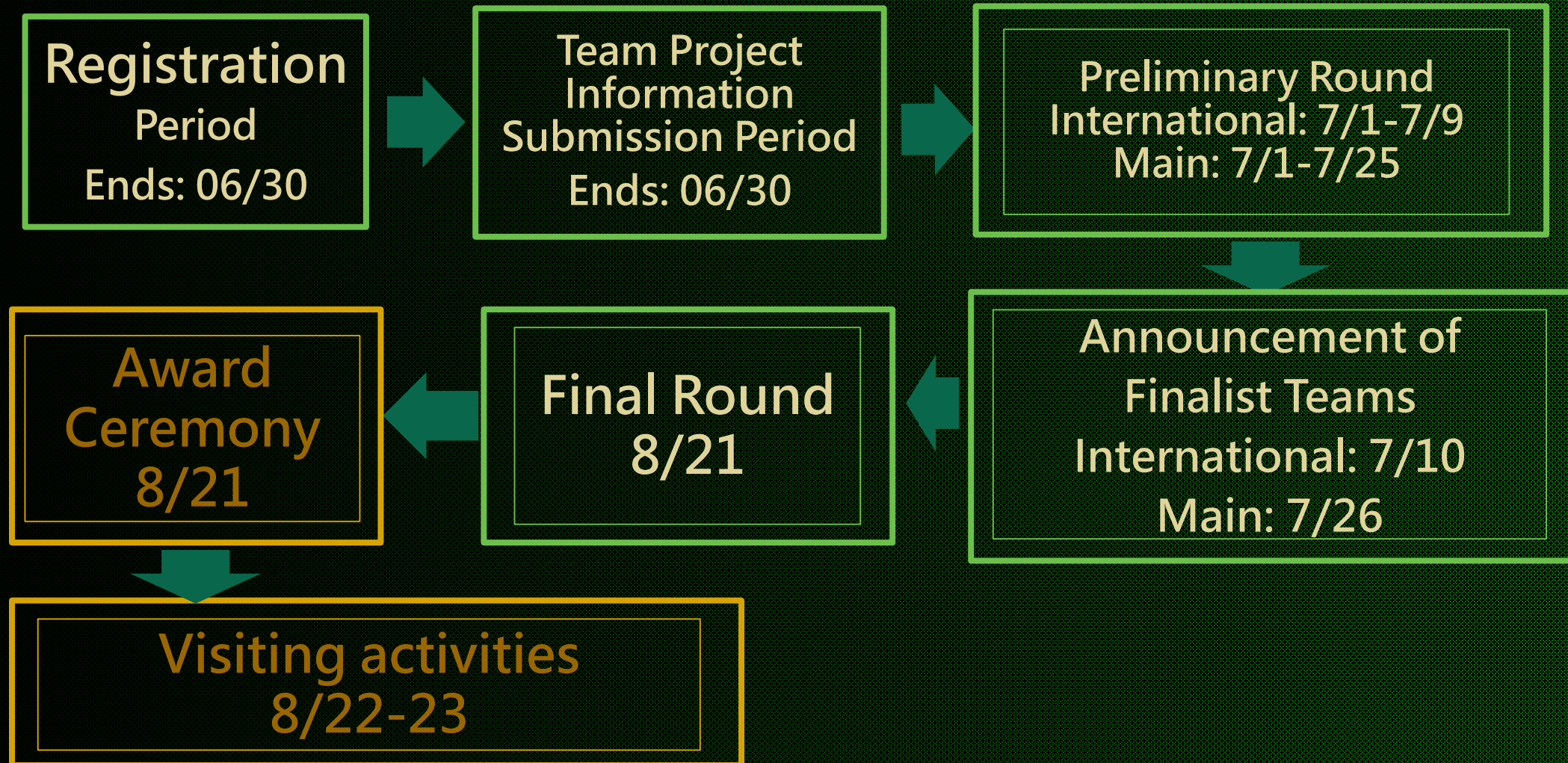
Contest Categories

International Contest

1. Open to students and faculty from universities worldwide.
2. Participants include undergraduate and graduate students from universities worldwide, including Taiwan, and their respective advisors.
3. Each team should consist of four members or more (including the advisors).
4. Participants can be from different departments or universities.
5. Each person is limited to register in one team (no restrictions on advisors).



Key Dates



Contest Procedures

I Registration: From March 1, 2024, to June 30, 2024

II Registration Method: Visit

<http://www.tecofound.org.tw/greentech-contest/2024>

- 1. Apply for a contest account in the event registration section.**
- 2. Click the verification link in the confirmation email to activate the account.**
- 3. Log in with contest account and complete the registration information (“Team Information”), which includes:
(1) Project title, names of team members with student identification and other personal information**



Contest Procedures

(2) Motivation and process of creation

(3) Research objectives

(4) Brief project introduction emphasizing:

a. Problem-solving and technical value

b. Technical creativity

c. Technical content and feasibility

(5) Project proposal and attachments submitted with PDF format (each file within 10MB, maximum 6 files)

4. Notes:

(1) Participants are required to specify the technological field of their project within the registration portal on the website.



Contest Procedures

- a. **Main Contest:** utilizing only the Chinese language for submission.
 - b. **International Contest:** utilizing only the English language for submission.
- (2) After the registration deadline, the following changes are prohibited: team members, project title, and the contents of project proposal with attachments.
- (3) Entries that encompass products already commercially available to the public are ineligible for consideration.



Contest Procedures

- (4) All submissions must respect intellectual property laws and ensure no infringement on the rights of third parties. Should any violation occur, the implicated parties will bear full responsibility; the contest organizers will not be implicated.**
- (5) Please upload your data anonymously, except for the “Team Information” section. This means that all other information, including school names, participant names, or advisor information, must not be disclosed in the project proposal. Violators may have their participation eligibility revoked through a decision by the juries.**



Contest Procedures

(6) Upon thorough verification of team details and project information for completeness and accuracy, the organizers will send a “Registration Successful” notification via email.

III Preliminary and Secondary Review:

Main Contest: July 1-25, 2024

International Contest: July 1-9, 2024

IV Announcement of Review results: Results will be published on the foundation’s and National Taiwan University’s websites and official Facebook page.



Contest Procedures

- a. Main Contest: July 26, 2024, 17:00
- b. International Contest: July 10, 2024, 17:00
- V Final Round: August 21, 2024 (Wednesday)
- VI Visiting activities: Arrange the visit schedule after the contest, participate freely. *(Itinerary planning in progress).*



Evaluation Method

- 1. Problem-solving and Technical Value: 40%**
- 2. Creativity: 25%**
- 3. Technical Content and Feasibility: 25%**
- 4. Completeness of the Project: 10%**

Final Round Procedures

- 1. Final Round Date: August 21, 2024 (Wednesday)**
- 2. Final Round Venue: National Taiwan University Sports Center
(No. 29, Section 2, Xinhai Road, Da'an District, Taipei City, 106)**
- 3. Contest Format:**

Project Briefing and Presentation Demonstration

- (1) Teams that qualify for the Final Round should provide a 3-5 minute project overview and operational demonstration video for the judges from July 26 to August 11. Video files should be in MPEG-4 format and uploaded to a cloud drive for organizers to download.**
- (2) Each team has a total of 13 minutes (including briefing, demonstration, and judge questions). Advisors may provide assistance**



Final Round Procedures

- (3)The presentation order will be determined by a draw during the Final Round registration.**
- (4)Operational Demonstration: Teams will be provided with a space of 250cm × 200cm (width * length) to showcase their entries.**
- 4. Dress Code: Participants should wear clothing that reflects the school or department's identification system to highlight each team's characteristics.**
- 5. Awards Presentation: An award ceremony will be held on the day of the Final Round, and information about winning teams will be provided to the media.**



Final Round Procedures

6. Notes: The organizer will provide all participants with lunch, comprehensive participant manuals, and official badge of participation. It is imperative that teams adhere to the guidelines for wearing their official badge visibly and comply with the dress code as stipulated by the organizer. Non-compliance, even subsequent to reminders, may result in disqualification from the event.



Award Mechanism

Place		Main Contest		International Contest	
		Teams	Prize Money (NTD)	Teams	Prize Money (NTD)
1	Champion	1	1,000,000	1	1,000,000 ≒30,520 USD
2	First Runner-up	1	600,000	1	600,000 ≒18,312 USD
3	Second Runner-up	1	400,000	1	400,000 ≒12,208 USD
4	CPC Smart Energy Award	1	200,000	1	200,000 ≒6,104 USD
5	Energy-Saving Motor System Award	1	200,000	1	200,000 ≒6,104 USD
6	Advanced of Green Energy Award	1	100,000	1	100,000 ≒3,052 USD
7	Net Zero Promising Award	1	100,000	1	100,000 ≒3,052 USD
8-20	Honorable Mention	13	50,000	13	50,000 ≒1,526 USD
	Total	20	3,250,000	20	3,250,000 ≒99,191 USD

Quoted Date of Cash Rate: 2024/04/16 Bank of Taiwan 1USD=32.765NTD

Notes



- 1. To uphold the contest's standards, the organizers reserve the right to withhold awards if deemed necessary.**
- 2. In accordance with Article 14, Paragraph 1, Subparagraph 8 of the Republic of China Income Tax Act, awards or grants from competitions are classified under "competition, contest, and winning opportunities" income and are subject to a tax deduction of 10% for nationals and 20% for non-nationals.**
- 3. The organizers will issue the official badges of participation to teams advancing to the Final Round. Non-compliance with the mandatory display of participant badges or adherence to the prescribed dress code, despite reminders, may lead to disqualification.**

Special Instructions



- 1. International Contest: utilizing only the English language for submission.**
- 2. Each of the finalist teams will be entitled to a cash prize of no less than NT\$50,000 .**
- 3. Final presentations are required to be conducted in person; video presentations will not be accepted.**
- 4. International teams qualifying for the finals will receive personalized assistance or arrangements for accommodation and meals from the organizers.**
- 5. A complimentary "Net Zero tech Enterprise Visit touring" has been curated by the organizers exclusively for the international teams, scheduled for August 22nd - 23rd,2024.**
- 6. Recommended arrival dates in Taiwan: August 19th-24th, 2024**

Appendix

1. Photo from
2023 Net Zero Tech International Contest
2. Contact Us



2023 淨零碳排科技國際競賽

Net Zero Tech International Contest @ Taiwan



2023 淨零碳排科技國際競賽
Net Zero Tech International Contest @ Taiwan
複審作業手冊

2023 淨零碳排科技國際競賽
Net Zero Tech International Contest @ Taiwan
複審作業手冊

2023 淨零碳排科技國際競賽
Net Zero Tech International Contest @ Taiwan
複審作業手冊

2023 淨零碳排科技國際競賽
Net Zero Tech International Contest @ Taiwan
複審作業手冊



2023 臺灣最佳科技企業獎
台泥企業團

東元電機股份有限公司

台泥企業團

東元電機股份有限公司

東元電機股份有限公司

東元電機股份有限公司

東元電機股份有限公司

東元電機股份有限公司

孫健興

李宗麟

藍勝文

周基宏

彭裕欣

蔡明祺

林法正

林則嘉

何國權

主隊	罰球	客隊
■ ■ ■ ■	■	■ ■ ■ ■
完成次數	節數	完成次數
■ ■	■ ■ ■ ■	■ ■
得分	罰款	得分

2023 淨零排放科技國際競賽
Net Zero Tech International Contest @ Taiwan

財團法人東元科技文教基金會
TECO Technology Foundation

冠軍
Champion

季軍
Second Runner-up

00 13:00



中華民國

蔡英文總統

Tsai Ing-wen,

President, Republic of China (R.O.C.)



2023
淨零排放科技國際競賽

...initial rounds. ...
...actions will infuse
...tribute to a better w



機(股)公司總經理

2023
淨零排放科技國際競賽
Net Zero Tech International Contest



NCHU

公司

台泥企業團

Ω

2023











分數	分數	分數
主隊	客隊	客隊
10	10	10
10	10	10

嘉亞汽車股份有限公司 嘉亞汽車股份有限公司 台灣企業展 TECO 東元電機股份有限公司 東元電機股份有限公司 東元電機股份有限公司



2023 淨零排放科技國際競賽

Net Zero Tech International Contest @ Taiwan



2023 淨零排放科技國際競賽
亞軍
台灣中油科技獎
First Runner-up
CPC Technology Award

2023 淨零排放科技國際競賽
冠軍

2023 淨零排放科技國際競賽
季軍
Second Runner-up

2023 淨零排放科技國際競賽
菱光科技獎
Image Sensor Technology Award

2023 淨零排放科技國際競賽
勝一創意獎
Shiny Chemical Creativity Award

2023 淨零排放科技國際競賽
東友科技獎
Image Systems Technology Award



Project Contacts

Andy Chang

+886-2-2542-2338 #16

andychang@teco.com.tw

Stewart Lin

+886-2-2542-2338 #17

stewart@teco.com.tw



Link



Registration

End in 2024.06.30

<http://www.tecofound.org.tw/greentech-contest/2024/login.php>





Net Zero Tech International Contest @ Taiwan
2024 淨零排放科技國際競賽



國立臺灣大學
National Taiwan University



財團法人東元科技文教基金會
TECO Technology Foundation



教育部
Ministry of Education