



# TASS2023

亞洲永續供應+循環經濟會展  
Sustainable Taiwan Expo

11/22 三 ▶ 11/24 五

高雄展覽館

Kaohsiung Exhibition Center

大會手冊

SHOW DIRECTORY

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TASS  
2023

亞洲永續供應+循環經濟會展  
Sustainable Taiwan Expo



## 理事長歡迎詞 Welcome Remarks

社團法人台灣永續供應協會與安益集團茵康國際會議顧問共同主辦的「TASS2023第四屆亞洲永續供應+循環經濟會展」承續過去三屆舉辦已有的成效與相關業者的期望，本屆承蒙中央政府各部會與國營事業各單位全員參與，響應政府「臺灣2050淨零轉型」既定政策，以「邁向淨零之道」為題，在各協辦單位的鼎力協助之下，建構亞洲最具影響力的永續會展與ESG解決方案平台。

今年會展第三度與循環經濟推動辦公室共同舉辦：「台灣循環經濟大聯盟論壇」，並由國泰世華銀行、金屬工業研究發展中心、國立高雄科技大學等南部12校、新創企業、國際採購與供應聯盟與主辦單位規劃10場專業論壇，50位講者分別針對「創造永續城市、綠色金融、永續供應、促進能源轉型、減碳淨零技術、協助產業轉型、氫能、數位孿生X綠色科技」等主題研討發表；三天的會展共聚集來自11國，100家國內外業者，300個標準展位，150場一對一商機媒合會談，以「跨產業、多元性、國際化」方式展現，成為全台唯一聚焦淨零轉型之展會。

本協會向以「創新、永續、踏實」為期許，配合政府頒布之政策與關鍵戰略，協助產業與企業面對淨零轉型挑戰，共同創造新的契機，並持續精進台灣於全球供應網絡的永續競爭優勢。

The “TASS2023 Sustainable Taiwan Expo (Asia's Sustainable Supply & Circular Economy Conference and Exhibition)” is co-organized by TASS (Taiwan Alliance for Sustainable Supply Association) and Intercon Convention Management which continuously extending the efficient outcomes and expectations from the past three annual events. This year, the central government authorities and state-owned enterprises are actively participating to respond the “Taiwan’s Pathway to Net Zero Emissions in 2050”. Therefore, the theme of “Solutions toward Net Zero” is proposed for this expo in developing the Asia’s most impactful conference and exhibition on the Sustainability and ESG platform.

The event this year is the third occasion to proceed the “TCE Forum” which is collaborated with the Circular Economy Promotion Office, plus other organizers from Cathay United Bank, MIRDC, NKUST+STUA, KOIN and IFPSM to schedule totally of 10 forum sessions with 50+ speakers. The forum topics include Sustainable City, Green Finance, Sustainable Supply, Energy Transition, Carbon Reduction Technology, Industry Transition, Hydrogen, Digital+Green Techniques. It brings together 11 nations, 100 domestic and overseas exhibitors, 300 standard booths and 150 opportunities for one-on-one Business Exchange meetings, demonstrates the mode of “Cross-Industries, Diversity and Globalization”. This also facilitates the only conference and exhibition to focus on the “Net Zero Transition” in Taiwan.

TASS always promotes the “Innovation, Sustainability and Practicality” to comply with the government’s enacted policies and key strategies. Its mission assists the industry and enterprise to overcome the coming challenges of “Net Zero Transition”, and meanwhile, jointly developing the new turning opportunities. It attempts to advance the Taiwan’s position in the global network of supply chain competitive advantage.

社團法人台灣永續供應協會  
TASS - Taiwan Alliance for Sustainable Supply

理事長  
Chairman

賴俊吉

Jiunn-Jyi Lai

創會理事長  
Founding Chairman

賴樹鑫

Shu-Shin (Steve) Lai

聯合敬邀

# 1 展覽資訊

## Exhibition Information

展覽簡介 About TASS 2023

大會平面圖 Floor Plan

活動總覽 Agenda at a Glance



TASS  
2023

亞洲永續供應+循環經濟會展  
Sustainable Taiwan Expo

## 展覽名稱 *Official Information*

亞洲永續供應+循環經濟會展  
Sustainable Taiwan Expo

<https://tassasiaexpo.com>

## 展出地點 *Venue*

高雄展覽館 南館  
高雄市前鎮區成功二路39號

South Hall, Kaohsiung Exhibition Center (KEC)  
No. 39, Chenggong 2nd Rd., Qianzhen Dist.,  
Kaohsiung, Taiwan

## 展出日期及參觀時間 *Show dates and opening hours*

2023年11月22-24日(星期三-星期五)  
上午10時00分至下午5時00分

November 22-24, 2023 (Wednesday to Friday)  
10:00am - 5:00pm daily

歡迎業界專業 憑名片登記參觀，12歲以下謝絕入場參觀。

The show is open to trade visitors only. All visitors must register and wear a visitor badge during the show. Visitors under 12 will only be admitted exceptionally.



## 展會活動總覽 Agenda at a Glance

| 日期時間 | 11月22日 (三)                                  |   | 11月23日 (四)   |  | 11月24日 (五)   |      |   |  |
|------|---|---|--|--|--------------|------|---|--|
| 地點   | 永續舞台  | 創新舞台  | 永續舞台   | 創新舞台   | 永續舞台         | 創新舞台 |   |  |
| 上午   | <b>開幕典禮</b><br>11:00-12:00                  |   | <b>綠色金融論壇</b><br>第一次淨零就上手<br>國泰世華銀行 金屬中心<br>10:30-12:00  | <b>永續供應論壇</b><br>國際採購與供應管理聯盟 亞太地區 (全英文)<br>10:30-12:30 | <b>商機媒合會</b> |      |   |  |
| 下午   | <b>2023 台灣循環經濟大聯盟論壇</b><br>14:00-16:50      | <b>ESG解決方案論壇(一)</b><br>佈建淨零建築 創造永續城市<br>13:30-15:35 | <b>ESG解決方案論壇(二)</b><br>挑戰氣候變遷 促進能源轉型<br>13:30-16:20  | <b>淨零永續產學攜手技術交流</b><br>大南方 科研產業化平台<br>14:00-16:00      |              |      | <b>ESG解決方案論壇(三)</b><br>推展資源循環 協助產業轉型<br>10:30-12:05 | <b>金屬中心 氫能論壇</b><br>10:00-12:00                        |
| 晚上   | <b>開幕晚宴</b><br>19:00-21:30<br>高雄漢來大飯店 9樓金鳳廳 |   | 2023台灣循環經濟大聯盟論壇 詳細議程請見p.10<br>綠色金融論壇 詳細議程請見p.19<br>永續供應論壇 詳細議程請見p.29<br>淨零永續產學攜手技術交流 詳細議程請見p.30<br>數位學生×綠色科技產業化論壇 詳細議程請見p.45 |  |              |      | <b>ESG解決方案論壇(四)</b><br>推展資源循環 協助產業轉型<br>13:30-15:25 | <b>數位學生×綠色科技產業化論壇</b><br>誠研創新   KOIN智高點<br>13:30-16:00 |

■ 2023台灣循環經濟大聯盟論壇 詳細議程請見p.10  
■ 綠色金融論壇 詳細議程請見p.19  
■ 永續供應論壇 詳細議程請見p.29  
■ 淨零永續產學攜手技術交流 詳細議程請見p.30  
■ 數位學生×綠色科技產業化論壇 詳細議程請見p.45  
■ ESG解決方案論壇(一)(二)(三)(四) 詳細議程請見p.11 / p.20 / p.31  
■ 金屬中心 氫能主題論壇 詳細議程請見p.44

\*主辦單位保有最終修改、變更及取消之權利。

## 展會活動總覽 Agenda at a Glance

| TIME     | Nov. 22 (Wed.)  |  | Nov. 23 (Thu.)  |  | Nov. 24 (Fri.)           |  |  |
|----------|---|--|---|--|--------------------------|--|--|
| Location | Stage Sustainability  | Stage Innovation   | Stage Sustainability  | Stage Innovation   | Stage Sustainability     | Stage Innovation   |  |
| a.m.     | <b>Opening Ceremony</b><br>11:00-12:00                                  |  | <b>Green Finance Forum</b><br>Cathay United Bank & MIRDC<br>10:30-12:00   | <b>Sustainable Supply Forum (IFPSMAP)</b><br>10:30-12:30 | <b>Business Exchange</b> | <b>ESG Forum (Session III) Net Zero Solutions</b><br>10:30-12:05   | <b>Hydrogen Energy Forum</b><br>MIRDC<br>10:00-12:00 |
| p.m.     | <b>2023 Taiwan Circular Economy Forum</b><br>14:00-16:50                | <b>ESG Forum (Session I) Sustainable Building Solutions</b><br>13:30-15:35 | <b>ESG Forum (Session II) Green Energy Solutions</b><br>13:30-16:20   | <b>NKUST Forum</b><br>14:00-16:00                        |                          | <b>ESG Forum (Session III) Net Zero Solutions</b><br>13:30-15:25   | <b>Legend Innovation Forum</b><br>13:30-16:00        |
| p.m.     | <b>Welcome Reception</b><br>19:00-21:30<br>金鳳廳 of Grand HAILI Kaohsiung |  | 2023 Taiwan Circular Economy Forum p.10 for more information<br>Green Finance Forum p.19 for more information<br>Sustainable Supply Forum (IFPSMAP) p.29 for more information<br>NKUST Forum p.30 for more information<br>Legend Innovation Forum p.45 for more information |  |                          | ESG Forum (Session I II III IV) p.11 / p.20 / p.31 for more information<br>Hydrogen Energy Forum MIRDC p.44 for more information |  |

*\*The Organizer reserves the right to change or cancel the programs.*



## 2 論壇議程及講者介紹 Conference Information

- 11/22 | 2023台灣循環經濟大聯盟論壇  
2023 Taiwan Circular Economy Forum  
ESG解決方案論壇(一) 佈建淨零建築 創造永續城市  
ESG Forum (Session I) Sustainable Building Solutions
- 11/23 | 綠色金融論壇  
Green Finance Forum  
ESG解決方案論壇(二) 挑戰氣候變遷 促進能源轉型  
ESG Forum (Session II) Green Energy Solutions  
國際採購與供應管理聯盟 - 亞太地區永續供應論壇  
Sustainable Procurement & Supply Forum (IFPSM)  
大南方論壇  
NKUST Forum
- 11/24 | ESG解決方案論壇(三)(四) 推展資源循環 協助產業轉型  
ESG Forum (Session III IV) Net Zero Solutions  
金屬中心 氫能主題論壇  
MIRDC's Hydrogen Energy Forum  
誠研新創論壇  
Legend Innovation Forum



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# 2023 台灣循環經濟大聯盟論壇

淨零永續循環共生 產業扎根經濟共好



台灣永續能源研究基金會  
董事長  
**簡又新大使**



台塑企業  
總管理處安衛環中心  
副總經理  
**黃溢銓**



安永台灣氣候變遷、  
永續發展與 ESG 諮詢服務  
負責人  
**曾于哲**



永豐餘集團  
永豐能源科技(股)公司  
總經理  
**劉思治**



上緯國際投資(股)公司  
董事長  
**蔡朝陽**



百事益國際(股)公司  
董事長  
**林志青**



台灣永續供應協會  
創會理事長  
**賴樹鑫**

**時間：**112年11月22日(三)13:30-16:50

**地點：**高雄展覽館 南館 永續舞台區

2023 淨零永續活動已經正式啟動！如何邁入國際綠色賽局中？已經是全球產業的課題，也是政府與企業關注的重要發展。其中，循環經濟為達到淨零永續的重要策略之一，為推進台灣產業持續深耕循環經濟，體現淨零永續共生及綠色商機，以台灣產業韌性搶先佈局亞洲市場，在經濟部指導引領下，循環經濟推動辦公室結合 2023 亞洲永續供應 + 循環經濟會展特舉辦「台灣循環經濟大聯盟論壇」，以「淨零永續循環共生 產業扎根經濟共好」為主軸，邀請台灣各大產業全面性深入研究探討循環永續共生、綠色環保及能源發展，帶領台灣產業邁入國際綠色賽局，共同從經濟驅動邁向循環永續，分享國內循環經濟領航者闡釋如何將核心技術轉換至綠色商機，讓台灣在國際綠色賽局中拔得頭籌。

誠摯邀請 TCE100 (台灣循環經濟大聯盟, TAIWAN CIRCULAR ECONOMY 100) 成員，以及各大公協會及對循環經濟有興趣之各界產官學人士，指標性企業及專家學者一同參與，透過論壇逐步凝聚產業共識，以循環經濟、綠色環保、能源發展及科技循環共創台灣的淨零目標，讓台灣邁入國際綠色賽局。



2023  
經濟論壇報名



誠摯邀請您蒞臨與會！



TASS 2023 ESG Forum (Session I)

ESG解決方案論壇 (一)

11/22 13:30-15:50

創新舞台 Stage Innovation

# 佈建淨零建築 創造永續城市

## Sustainable Building Solutions



樂中丕

內政部建築研究所 主任秘書



張瑞松

美商3M 業務總經理



蔡明達

樺康智雲 協理



陳重仁

澄毓綠建築 總經理



林育生

華能光電科技 協理



楊依萍

台北金融大樓公司 永續發展經理



翁翊綸

威浦斯科技 博士

| 時間 / Time   | 講題 / Topic   | 講者 / Speaker  |
|-------------|--|---|
| 13:35-13:50 | 專題演講：綠建築發展與淨零轉型策略<br>Green Building Development and Net Zero Transition Strategies                                     | 內政部建築研究所 樂中丕 所長<br>Chung-Pi Luan<br>Chief Secretary, Architecture and Building Research Institute, Ministry of the Interior |
| 13:50-14:05 | 建築隔熱膜應用及效益<br>Applications and Benefits of Architectural Heat Insulation Films   | 美商3M 張瑞松 業務總經理<br>Kenny Cahng<br>General Manager of Commercial Solutions Division, 3M Taiwan Ltd.                           |
| 14:05-14:20 | 建築全生命週期碳排管理平台與AI數位雙生節能技術<br>Building Whole Life Carbon Management Platform and AI-Driven Twin Energy-Saving Technology | 樺康智雲 蔡明達 協理<br>Dr. Ming-da (Mike) Tsai<br>ENNOWELL  |
| 14:20-14:35 | 淨零循環建築與再生能源運用<br>Net-zero Circular applications  | 澄毓綠建築 陳重仁 總經理<br>Johnny Chen<br>Director, SSDC  |
| 14:50-15:05 | 淨零建築照明ESG最佳解決方案<br>Net Zero Building Lighting ESG Best Solution  | 華能光電科技 林育生 協理<br>YS(Vincent) Lin<br>Director, Energyled   |
| 15:05-15:20 | 綠建築如何因應氣候變遷<br>How Green Buildings Can Adapt to Climate Change   | 台北101 楊依萍 永續發展經理<br>Iping Yang<br>Sustainability Development Manager, Taipei 101  |
| 15:20-15:35 | 淨零關鍵-降低建築能耗指標(EUI)<br>Net Zero Key - Reducing the Building Energy Use Intensity (EUI)                                  | 威浦斯科技 翁翊綸 博士<br>Dr. Yilun Weng<br>General Manager, WEPLUS HIGH-TECH Corp.   |



SPEAKER / 講師姓名

## 樂中丕 / Chung-Pi Luan

內政部建築研究所 主任秘書  
Chief Secretary, Architecture and Building Research Institute,  
Ministry of the Interior

### 講師經歷 / *Speaker Experience*

#### 現職

· 內政部建築研究所 主任秘書

#### 學歷

· 國立臺灣科技大學 建築博士  
· 美國賓夕法尼亞大學 建築碩士

#### 專長

· 建築設計  
· 建築防災安全  
· 智慧綠建築及建築物永續節能

#### 經歷

· 內政部營建署 副組長

#### Position

· Chief Secretary of Architecture and Building Research Institute, Ministry of the Interior

#### Education

· Ph.D. of Architecture, National Taiwan University of Science and Technology  
· Master of Architecture, University of Pennsylvania

#### Specialties

· Architectural Design  
· Building Disaster Prevention Technology  
· Intelligent Green Building and Building Sustainable Energy Saving

### 綠建築發展與淨零轉型策略

## Green Building Development and Net Zero Transition Strategies



SPEAKER / 講師姓名

## 張瑞松 / Kenny Cahng

美商3M台灣子公司 業務總經理

General Manager of Commercial Solutions Division, 3M Taiwan Ltd.

### 講師經歷 / Speaker Experience

張瑞松 業務總經理，任職美商3M台灣子公司 商用解決方案事業部，具有機械工程與產業經濟分析師MBA的雙重學經歷背景，在3M的20+年的工作職涯中，掌握各產業的需求，擅長運用3M創新多元的獨特科技，提供客製化的解決方案，滿足客戶需求與協助解決問題，提升企業的品牌形象與知名度。

Kenny Chang, G.M., Commercial Solutions Division, 3M Taiwan Ltd., with a dual academic background of mechanical engineering and industrial economic analyst background, during 20+ years working life at 3M Company, he has mastered the needs of various industries, and utilize 3M's innovative and diversified unique technologies to provide customized solutions to satisfy customer needs and solve problems, and enhance the company's brand image and popularity.

### 建築隔熱膜應用及效益

## Applications and Benefits of Architectural Heat Insulation Films

### 內容簡介 / Speech Summary

「綠建築」是淨零碳排建築物的重要指標，美商3M公司提供「建築隔熱節能」+「簡法裝修減廢」的解決方案，建立一個健康舒適的生活場域。3M推薦以優先的被動式建築隔熱技術，並輔以主動式智慧空調系統，如此可以達到最佳的建築能效。

創新多層光學膜科技的3M™極景建築隔熱膜「採光不採熱」，符合綠建築要求，維持明亮採光，但降低太陽照射的熱能進入室內，建立優異隔熱效果與熱舒適性的環境。根據國際EPD® (環境產品宣告)，3M極景建築隔熱膜每平方米可減少產生8公斤二氧化碳當量(CO2e)，每年節電28%，降低19度的冷氣能耗。首家獲得【高性能節能綠建材標章】，有助於綠色採購，幫助綠建築節能減碳並可以取得高達11項LEED「領先能源與環境設計」的加分。

"Green building" is an important indicator of net-zero carbon emission buildings, and 3M provides solutions of "building insulation and energy saving" + "simple decoration and waste reduction" to establish a healthy and comfortable living area. 3M recommends prioritizing passive building insulation technology, complemented by active smart air conditioning systems, to achieve optimal building energy efficiency.

The innovative multi-layer optical film technology of 3M™ Prestige Building Window Film "Lighting without heat", which meets the requirements of green buildings, maintains bright lighting, but reduces the heat energy of sunlight into the room, creating an environment with excellent thermal insulation effect and thermal comfort. According to the EPD® (Environmental Product Declaration), 3M™ Prestige Building Window Film can reduce the production of 8 kg of carbon dioxide equivalent (CO2e) per square meter, save 28% electricity per year, and reduce the energy consumption of air conditioning by 19 degrees. The first company to obtain the "High Performance and Energy Saving Green Building Materials Label", which is conducive to green procurement, helps green buildings save energy and reduce carbon emissions, and can obtain up to 11 LEED "Leading Energy and Environmental Design" credits.



SPEAKER / 講師姓名

## 蔡明達 / Dr. Ming-da (Mike) Tsai

樺康智雲 協理  
ENNOWELL

### 講師經歷 / *Speaker Experience*

蔡明達，台大土木所營建管理博士，2013年開始協助包含：台積電、慈濟醫院、新北市政府、遠東通訊園區導入BIM FM 建築管理平台以及AI 智慧環境控制技術，持續致力於打造健康、節能永續之智慧建築。

Ming-Da, Tsai Ph.D., Department of Civil Engineering, National Taiwan Univ. Major in developing and implementation of BIM FM system and A.I. Environment technology into intelligent building. Clients are including : TSMC, Tzu-chi medical center, T-park telecom park, and New Taipei city government.

### 建築全生命週期碳排管理平台與AI數位雙生節能技術

## Building Whole Life Carbon Management Platform and AI-Driven Twin Energy-Saving Technology

### 內容簡介 / *Speech Summary*

依據聯合國2021年所公布的報告，整個建築產業的碳排佔全球碳排總量的37%，高於任何一個單一產業，也突顯建築產業全生命週期的碳排管理之重要性，樺康智雲透過建築碳排演算與控制技術，可協助業主有效統計、預測以及優化建築全生命週期碳排，協助有效管理與實現2050近零目標。

Based on the Report that The United Nations Environment Program (UNEP) released in 2021, construction and building sector accounted for 37% of total greenhouse gas emissions, higher than any single industry. This status indicates the Carbon emission management of building life cycle is crucial for the 'Pathway to Net-Zero Emissions in 2050'. Through carbon estimation and prediction technologies we develop will support and facilitate Life cycle Carbon emissions for Facilities owners and managers to achieve the 2050 Net-Zero Emissions goal.



SPEAKER / 講師姓名

## 陳重仁 / Johnny Chen

澄毓綠建築設計顧問 總經理

General Manager of Segreene Sustainable Design &amp; Consulting (SSDC)

### 講師經歷 / *Speaker Experience*

畢業於成大建築系與美國哈佛大學設計研究所，在累積了近十年的建築實務經驗後，毅然創業，目前為SSDC澄毓綠建築設計顧問公司總經理，以及台灣綠領協會理事長。具備20餘年LEED AP資格，參與近千件綠建築專案，專案版圖遍及台灣、大陸、歐洲，以及越南、印尼、汶萊等東南亞國家，包括台積電、友達光電、台達電、富士康等綠建築案，並於2014年成為美國海外第一位獲得LEED Fellow殊榮的華人。近年來，淨零碳排與ESG議題成為全球關注焦點，更跨足企業ESG及淨零碳排整合解決方案的研究與輔導，是多家大型企業的ESG顧問。

After graduating from the Department of Architecture at National Cheng-Kung University and the Graduate School of Design at Harvard University in the United States, he accumulated nearly ten years of practical experience in architectural affairs before deciding to start his own business. Currently, he serves as the General Manager of Segreene Sustainable Design & Consulting (SSDC) and holds the position of Chairman at the Taiwan Green Collar Association. With over 20 years of LEED AP qualifications, he has been involved in nearly a thousand green building projects spanning Taiwan, mainland China, Europe, and Southeast Asian countries such as Vietnam, Indonesia, and Brunei. These projects include notable green buildings like TSMC, AU Optronics, Delta Electronics, and Foxconn. Notably, in 2014, he became the first overseas Chinese to receive the LEED Fellow honor.

In recent years, global attention has shifted toward net-zero carbon emissions and ESG (Environmental, Social, and Governance) issues. He has dedicated his efforts to researching and providing guidance on corporate ESG and net-zero carbon emissions integrated solutions. Furthermore, he serves as an ESG consultant for numerous large companies.

### 淨零循環建築與再生能源運用

## Net-zero Circular buildings and renewable energy applications

### 內容簡介 / *Speech Summary*

1. 淨零循環政策趨勢
2. 關於建築物碳排放
3. 循環經濟與循環建材

1. Net Zero Circular Policy Trends
2. Building Carbon Emissions
3. Circular Economy and Circular Building Materials



SPEAKER / 講師姓名

## 林育生 / YS(Vincent) Lin

華能光電科技股份有限公司 協理  
Director, Energyled

### 講師經歷 / Speaker Experience

林育生在光電產業服務20多年，目前於華能光電科技股份有限公司，負責人因照明燈具開發與照明的ESG解決方案規劃，致力於將節能健康照明結合ESG解決方案，提供客戶專業且優質的照明設計。近年在國際照明委員會(CIE)、台灣LED產業照明聯盟(TLLIA)、中華電信、震旦家具等研討會與單位演講，演講題目涵蓋人因照明、健康照明、辦公室學校醫院照明設計。

經歷:

- 台灣LED產業照明聯盟(TLLIA)/候補理事/健康照明委員
- 台灣區照明燈具輸出業同業公會/候補理事/技術委員
- 工業技術研究院/微機電部/副研究員
- 興隆發電子股份有限公司/研發處長
- 冠大股份有限公司/副總經理

學歷:國立交通大學/機械工程研究所/碩士 專利:70件

Vincent Lin has over 20 years of experience in the optoelectronics industry. Now he works at Energyled Corporation, where he is responsible for the development of human-centric lighting fixtures and the planning of lighting solutions of ESG. In recent years, he has presentation for seminars and organizations like the International Commission on Illumination (CIE) in Taiwan, the Taiwan LED Lighting Industry Association (TLLIA), Chunghwa Telecom, and AURORA. His presentation topics cover human-centric lighting and lighting design for offices, schools, and hospitals.

Experience:

Taiwan LED Lighting Industry Association (TLLIA) - Candidate Director, Healthy Lighting Committee Member  
Taiwan Lighting Fixture Export Association (TLFEA) - Candidate Director, Technical Committee Member  
Industrial Technology Research Institute (ITRI) - Deputy Researcher, MEMS Department  
LiTek Optoelectronics Co., Ltd. - Director of R&D  
AREX (TWN) International Co., Ltd. - Vice President

Education:

National Chiao Tung University -  
Master's in Mechanical Engineering

Patents: 70 patents

## 淨零建築照明ESG最佳解決方案 Net Zero Building Lighting ESG Best Solution

### 內容簡介 / Speech Summary

為了達成2050淨零排放的目標，內政部推動建築能效標示系統，建築耗電密度低於100 kWh/(m<sup>2</sup>.yr)才能稱為淨零碳建築，同時訂定目標於2050年100%新建築物及超過85%建築物為近零碳建築。大眾常常忽略建築中大約30%的耗能是由照明產生，為了達成“淨零碳建築1+”嚴苛目標，華能光電引領LED二次革命，推出一系列超高光效平板燈、天井燈等燈具，光效可達160 lm/W，比現有LED燈管再省電40%，照明功率密度(LPD)可降低到5 W/m<sup>2</sup>以下，是達成淨零碳建築照明ESG最佳解決方案。另外平板燈可升級超低眩光UGR16，健康護眼不眩光，並透過藍芽智能控制燈具色溫與照度實現人因照明，減少對褪黑激素分泌的影響，讓晚上更好眠。

In order to achieve the goal of net-zero emissions by 2050, the Taiwan government is promoting the Building Energy-Efficiency Rating System. It mandates that Energy Use Intensity (EUI) of a building must less than 100 kWh/(m<sup>2</sup>.yr) to be classified as a Nearly Zero-Carbon Building. Also, there is a target to have 100% of new buildings and over 85% of existing buildings classified as Nearly Zero-Carbon Building by 2050.

The energy consumption of lighting in a buildings is approximately 30% of the total. Energyled have introduced a series of ultra-high-efficacy LED panel lights, high bay lights, and other lighting fixtures with an efficacy of 160 lm/W, providing a 40% energy savings compared to existing LED tubes. The Lighting Power Density (LPD) can be lower than 5 W/m<sup>2</sup>, making it the best ESG lighting solution for achieving Nearly Zero-Carbon Buildings.

Moreover, the panel lights can be upgraded to an ultra-low glare UGR16, offering a health and glare-free solution. Through Bluetooth connection with panel lights, we can adjust color temperature and intensity to achieve human-centric lighting, reducing the impact on people's melatonin secretion and promoting better sleep at night.





SPEAKER / 講師姓名

## 楊依萍 / Iping Yang

seed台灣永續能源環境專業協會 理事長  
台北101 永續發展經理  
Sustainability Development Manager,  
Taipei Financial Building Company

### 講師經歷 / Speaker Experience

楊依萍是LEED AP美國綠建築以及WELL AP健康建築專家，亦為美國註冊景觀建築師，現任seed 永續能源環境專業協會理事長，擔任台北101 ESG永續學院、台達基金會等眾多專業課程講師，在企業ESG永續綠建築領域已累積15年以上經驗，目前擔任台北101永續發展經理，負責台北101企業ESG及健康綠建築認證顧問業務，為台北101創下全球最高分LEED v4白金級認證、全球最高分WELL v2 Core白金級認證之雙白金紀錄。

Iping Yang is the Sustainability Manager of TAIPEI 101 Tower, responsible for green building marketing and ESG strategy to ensure the ESG leadership of TAIPEI 101. Iping is a sustainability expert specializing in LEED & WELL, CSR, SDG, and ESG, and has successfully helped TAIPEI 101 achieve LEED v4 O+M platinum certification in 2016 with global highest scoring (90 points). In 2023, Iping led a project team for Iconic Taipei 101 to Achieves WELL Core v2 Certification at Platinum Level with Top Score (102.5 pts), it is the first among the world's 10 tallest skyscrapers to attain WELL and LEED designations at the highest level. Iping is elected as Chairman of seed, the Official Association for LEED/ WELL Professionals in Taiwan, for 2019-2021 and 2021-2023 because her expertise on sustainability and green building consultancy. Iping maintains strong relationship with key organizations internationally such as USGBC, GBCI, CTBUH, and IWBI.

### 綠建築如何因應氣候變遷

## How Green Buildings Can Adapt to Climate Change

### 內容簡介 / Speech Summary

從世界最高建築，到世界最高健康綠建築，了解臺北101如何走上ESG永續之路，節能、減碳、節水、減廢，面對氣候變遷挑戰仍然游刃有餘。WELL+LEED雙白金認證的建築，在臺北101，一起Green & WELL。

From the world's tallest building to the world's tallest Green & WELL building, learn how Taipei 101 embarks on the path of ESG sustainability, energy saving, carbon reduction, water conservation, waste reduction, and still meets the challenge of climate change with ease. In Taipei 101, a WELL+LEED dual platinum certified building, let's reveal how to Green & WELL together.



SPEAKER / 講師姓名

## 翁翊綸 / Dr. Yilun Weng

威浦斯科技股份有限公司 總經理  
General Manager, WEPLUS HIGH-TECH Corp.

### 講師經歷 / Speaker Experience

學歷：

1. 國立臺北科技大學 / 電子研究所 / 博士
2. 國立勤益科技大學 / 研發科技與資訊管理研究所 / 碩士

經歷：

- |                              |                                 |
|------------------------------|---------------------------------|
| 1. 威浦斯科技股份有限公司 / 總經理         | 6. 國立勤益科技大學 / 保質創價4.0中心 / 副研究員  |
| 2. 國立勤益科技大學 / 資訊工程系 / 兼任助理教授 | 7. 國立勤益科技大學 / 能源與環境科技中心 / 副研究員  |
| 3. 禾玖科技股份有限公司 / 經理           | 8. 國立臺北科技大學 / 能源與冷凍空調工程系 / 兼任講師 |
| 4. 華楷光電通訊股份有限公司 / 工程師        | 9. 煜豐科技股份有限公司 / 技術員             |
| 5. 禾玖科技股份有限公司 / 技術員          |                                 |

Academic Degree :

1. Ph. D Program, Department of Electronic Engineering, National Taipei University of Technology, Taiwan.
2. Master, Department of Information Management, National Chin-Yi University of Technology, Taiwan.

Experience :

1. WEPLUS High-Tech Corporation / President
2. Department of Computer Science and Information Engineering, National Chin-Yi University of Technology / Adjunct Assistant Professor
3. Her Jiu Technology Co., Ltd. / Manager
4. Huakai Opto Co., Ltd. / Engineer
5. Her Jiu Technology Co., Ltd. / Technician
6. Institute of Property Quality 4.0 and Value Creation, National Chin-Yi University of Technology / Associate Researcher
7. Institute of Energy and Environment Science, National Chin-Yi University of Technology / Associate Researcher
8. Department of Energy and Refrigerating Air-Conditioning Engineering, National Taipei University of Technology / Adjunct Lecturer
9. Yufeng Technology Co., Ltd. / Technician

### 淨零關鍵-降低建築能耗指標(EUI)

## Net Zero Key - Reducing the Building Energy Use Intensity (EUI)

### 內容簡介 / Speech Summary

人類的活動持續的造成氣候的變遷與破壞，也衍生了極端氣候的產生，人們為了適應越來越高的溫度，越來越需要依賴冷氣，但冷氣空調的大量使用也加劇了世界的碳排放量與都市熱島效應，對氣候也造成更大的衝擊，在這樣的不良循環下，人類未來所需面對的環境平權有著很大的擔憂。

2015年聯合國氣候高峰會中通過「巴黎協定」氣候協議，而掀起了淨零排放的浪潮，2021年國際能源署(IEA)在「2050淨零路徑」提出淨零路徑里程碑，作為各國政府的行動準則。

淨零關鍵在於如何降低建築能耗指標(EUI)，全外氣氧好系統不僅能夠提供健康、養生環境，同時整合空調系統，可有效降低建築能耗指標，使建築物達到綠建築(LEED)及健康建築(Well)標章。

Human activities continue to cause climate change and damage, and also give rise to extreme climate. In order to adapt to higher and higher temperatures, people rely more and more on air-conditioning, but the massive use of air-conditioning has also aggravated the world's carbon emissions and urban heat island effect, and has caused an even greater impact on the climate, and in this undesirable cycle, there is a great deal of worry about the future of human beings who are faced with the right to an even more leveled playing field.

The adoption of the Paris Agreement at the 2015 United Nations Climate Summit set off a wave of net-zero emissions, and in 2021, the International Energy Agency (IEA) put forward the net-zero milestones in the "2050 Net Zero Pathway" as a guideline for governments to follow.

The key to net-zero lies in how to reduce the building's energy consumption index (EUI). The Oxygen System not only provides a healthy and wellness environment, but also integrates the air-conditioning system, which effectively reduces the building's energy consumption index and enables the building to achieve the LEED and Well Label.



# 國泰世華銀行

Cathay United Bank

## 綠色金融論壇

11/23 10:30-12:00

📍 永續舞台  
Stage Sustainability

### 第一次淨零就上手

| 項次 | 時間          | 議題                      | 講者                       |
|----|-------------|-------------------------|--------------------------|
| 1  | 10:00-10:30 | 報到入場                    |                          |
| 2  | 10:30-10:40 | 長官致詞                    | 國泰世華 張振棟副總經理 & 金工中心 副執行長 |
| 3  | 10:40-11:40 | 【議題一】<br>全球去碳化對企業的衝擊    | 國泰世華永續小組 陳毓云經理           |
| 4  | 11:40-12:00 | 【議題二】<br>金屬產業碳盤查與減碳技術應用 | 金工中心 趙家緯副處長              |
| 5  | 12:00-12:10 | Q&A                     |                          |



## TASS 2023 ESG Forum (Session II) ESG解決方案論壇 (二)

11/23 13:30-16:20

📍 永續舞台 Stage Sustainability

# 挑戰氣候變遷 促進能源轉型

## Green Energy Solutions



吳志偉

經濟部能源署 副署長



Mikka Blugeon-Mered



譚萬鏘

ERM Jovy Tam 台灣區負責合夥人



江立偉

愛德華先進 工業與科學真空資深業務經理



李長穎

日成科技股份有限公司 (OSA) 執行長



林哲次

AON怡安保險經紀人 副總經理



謝承宇

匠普系統工程 經理



李昱慶

安祿國際實業股份有限公司 業務

| 時間 / Time   | 講題 / Topic  | 講者 / Speaker  |
|-------------|---|---|
| 13:35-13:50 | 專題演講：能源轉型大未來<br>The Big Future of Energy Transition   | 經濟部能源署 吳志偉 副署長<br>Jhih-Wei Wu<br>Deputy Director, Energy Administration,<br>Ministry of Economic Affairs  |
| 13:50-14:05 | New Global Geopolitics of Clean Hydrogen:<br>What's New? Who's Leading? What Do Taiwan<br>and Europe Have in Common?  | Adjunct Lecturer on Hydrogen Markets,<br>Diplomacy and Geopolitics / Sciences Po<br>(Paris Institute of Political Studies)<br>Mikaa BLUGEON-MERED |
| 14:05-14:20 | 漁電共生-志光光儲,光儲合一未來的優勢與挑戰<br>Symbiosis of Fishing and Electricity.<br>The Advantages and Challenges of Combining<br>Solar Energy and Energy Storage for the Future | 大亞集團 協同能源科技股份有限公司 熊廷堯<br>TS Hsiung<br>Taya Group<br>Union Storage Energy System Ltd.  |
| 14:20-14:40 | 企業永續新關注—國際自然正向倡議<br>New Corporate Sustainability Focus –<br>The International Nature Positivity Initiative  | ERM Jovy Tam 譚萬鏘 台灣區負責合夥人<br>Jovy Tam<br>Taiwan Region Managing Partner, ERM Taiwan   |
| 14:40-14:55 | 真空解決方案於永續綠能技術之重要性<br>The Significance of Vacuum Solutions in<br>Sustainable Green Energy Technology   | 愛德華先進 江立偉 工業與科學真空 資深業務經理<br>Eddie Chiang<br>Senior Sales Manager, Edwards Vacuum  |
| 15:05-15:20 | 地熱電廠專案開發之最佳案例研討<br>Best practices in geothermal power plant project<br>development  | 日成科技股份有限公司 (OSA) 李長穎 執行長<br>Dr. John Lee<br>Manager Director, OSA - International   |
| 15:20-15:35 | 儲能系統防火安全<br>Energy Storage System Fire Safety   | AON怡安保險經紀人 林哲次 副總經理<br>Joseph Lin<br>Vice General Manager, AON Taiwan   |
| 15:35-15:50 | 節能設備-磁懸浮高速離心式風機<br>Energy-Efficient Equipment.<br>Magnetic Levitation High-Speed Centrifugal Fan  | 匠普系統工程 謝承宇 經理<br>CY (Brian) Xie<br>Manager, KINETIC Systems Engineering & Services Inc.   |
| 15:50-16:05 | 綠色能源在淨零碳排所扮演的角色<br>The Role of Green Energy in Achieving Net-Zero<br>Carbon Emissions   | 大創綠能 陳煜賢 董事長<br>YX Chen<br>President, Da Chuang Green Energy Co., Ltd.  |
| 16:05-16:20 | 向歐洲借鏡—住宅環境淨零碳排能源策略<br>Lessons from Europe: Residential Environment<br>Net-Zero Carbon Emission Energy Strategy  | 安祿國際實業股份有限公司 李昱慶<br>Andrew Lee<br>AM-POWER Machine International Enterprise Co., Ltd.   |



SPEAKER / 講師姓名

## Mikaa BLUGEON-MERED

Adjunct Lecturer on Hydrogen Markets, Diplomacy and Geopolitics /  
Sciences Po (Paris Institute of Political Studies)

### 講師經歷 / Speaker Experience

米卡·布魯熱恩-梅雷德是一位常駐巴黎的獨立研究員、獲獎作家、公共演講者以及學術講師，專門研究氫能源事務，擁有超過10年的領域經驗，這與氣候變化政策以及北極和南極事務相結合。他的研究位於空間、地點、安全、法規、貿易流動、創新政策和經濟外交問題交匯點，採用新制度主義方法。2019年，他創建了世界上首個專門討論氫能源地緣政治的研究生研討會，現在他是巴黎政治學院 (Sciences Po) 關於氫市場、外交和地緣政治的兼職講師，摩洛哥公共政策學院 (UM6P) 的講師，以及巴黎高等商學院 (HEC Paris) 氫能源MBA項目的督導。

米卡還是法國氫能源工作組指導委員會的成員，世界氫能源領袖網路和教職員的成員，清潔技術商業俱樂部綠色氫能源中心的聯席主席，並且自2022年6月起，被國際氫能源協會 (IAHE) 命名為“綠色氫能源大使”。他目前正在撰寫兩本關於氫能源國際市場和地緣政治的新書，並且是清潔技術商業俱樂部即將發布的旗艦年度報告《綠色氫能源何去何從？》(2024年第一季度提供) 的主要作者。

Mikaa BLUGEON-MERED is a Paris-based independent researcher, award-winning author, public speaker, and academic lecturer specialized in hydrogen affairs, with more than 10 years of experience in the field, in conjunction with Climate change policy and Arctic and Antarctic affairs. His research is located at the intersection of issues of space, place, security, regulation, trade flows, innovation policy and economic diplomacy, with a neo-institutionalist approach. Creator of the world's first graduate seminar dedicated to hydrogen geopolitics back in 2019, he is now an adjunct lecturer on hydrogen markets, diplomacy, and geopolitics at Sciences Po (Paris Institute of Political Studies), at UM6P's Public Policy School (Morocco), and hydrogen MBA projects supervisor at HEC Paris (France).

Mikaa is also a member of the steering committee of the French Hydrogen Task Force, member of the World Hydrogen Leaders' network and faculty, co-chair of the Cleantech Business Club's Green Hydrogen Hub, and was named "Green Hydrogen Ambassador" by the International Association for Hydrogen Energy (IAHE), as of June 2022. He is currently writing two new books on hydrogen international markets and geopolitics, and is the lead author of the Cleantech Business Club's forthcoming flagship annual report titled "Quo Vadis, Green Hydrogen?" (available in Q1 2024).

## New Global Geopolitics of Clean Hydrogen: What's New? Who's Leading? What Do Taiwan and Europe Have in Common?

### 內容簡介 / Speech Summary

理解和預測氫能源的地緣政治趨勢，對於那些希望制定出合理的投資戰略、政策以及關於可持續發展和綠色能源的敘述的決策者們來說是必要的。然而，他們越來越多地遭受信息過載的困擾，因為現在每個月都有數十條關於氫能源的公告和新報告發布，這些報告常常基於不充分和/或很快過時的數據，提供相互沖突的地緣政治預測。基於過去一年在30個國家進行的原創研究和實地工作，本主旨演講旨在為聽眾提供一個簡潔的關於氫能源文獻豐富資源的元分析，並結合實際市場觀察：一個360°的最新評估，講述近期的政策、地緣政治和外交發展如何影響氫能市場設計、項目融資、貿易路線、認證機制，以及綠色氫能產業需求在何處為台灣、亞洲和歐洲的參與者提供了合作的途徑。

Understanding and anticipating hydrogen geopolitical trends are necessary for decisions-makers wishing to develop sound investment strategies, policies and narratives on sustainable development and green energy. Yet, they increasingly suffer from an information deluge as dozens of announcements and new reports on hydrogen are now published every month, often offering conflicting geopolitical projections based on inadequate and/or quickly obsolete data. Based on original research and fieldwork undertaken in 30 countries over the past year, this keynote aims at providing the audience with a succinct meta-analysis of this wealth of literature on hydrogen against practical market observations on the ground: a 360° state-of-the-art assessment of how recent policy, geopolitical and diplomatic developments in the hydrogen space are impacting hydrogen market design, project finance, trade routes, certification mechanisms, and where the needs in the green hydrogen industry offer avenues for collaboration between Taiwanese, Asian and European players.

SPEAKER / 講師姓名

## 熊廷笙 / TS Hsiung

大亞集團 協同能源科技股份有限公司  
Taya Group  
Union Storage Energy System Ltd.

### 講師經歷 / *Speaker Experience*

協同能源(USESYS), 專注光儲案場、台電AFC案場相關之EPC統包、微電網、系統整合。  
協同能源利用模型化基礎設計技術(Model Based Design), 建立每個儲能案場之數位雙生系統, 透過虛擬驗證模型, 模擬電力傳輸配置、頻率波動、實功與虛功的補償機制...等, 最後用實際的數據印證模擬結果(台電測試結果97~99%匹配), 提高EMS系統之穩定度與可靠度。  
協同能源在儲能產業扮演著系統整合(System Integration, SI)的角色, 從系統設計、規劃、施工、報竣到案場的運維, 讓業主投入的資金得以用安全、穩固的方式取得利潤。

### 漁電共生-志光光儲, 光儲合一未來的優勢與挑戰

#### Symbiosis of Fishing and Electricity.

#### The Advantages and Challenges of Combining Solar Energy and Energy Storage for the Future

### 內容簡介 / *Speech Summary*

大亞集團旗下-協同能源, 專注光儲案場、台電AFC案場相關之EPC統包、微電網、系統整合, 協同能源所負責之儲能案場皆於7~12個月完工並通過台電測試併網上線。

志光能源在七股建置的漁電共生太陽能發電廠, 為全台最大120MW漁電共生電廠, 兼顧發電、養殖和生態三大功能; 將於今年(2023年)底完成併網上線, 志光光儲案場未來20年產能將逾33億度發電量。

光儲合一在未來扮演了非常重要的角色, 除了從前期的設計規劃, 到最後的報竣完工, 真正要面對的是未來20年EMS系統的挑戰, 除了要考量台灣氣候的變化、台電每年的滾動式需求調整, 讓案場達到充放電最佳化、投資效益最大化、服務品質滿意指標95%以上, 協同能源已經準備好了。



SPEAKER / 講師姓名

## 譚萬鏘 / Jovy Tam

永澧環境管理顧問 (ERM Taiwan) 台灣區負責合夥人  
Taiwan Region Managing Partner, ERM Taiwan

### 講師經歷 / *Speaker Experience*

Jovy為台灣ERM的總經理，擁有超過20年的經驗，為私人企業及公共部門提供有關管理與自然相關的風險和影響的建議。他的經驗涵蓋了包括能源、礦業、能源、化工製造等在內的多個行業，地區範圍包括亞太地區，包括台灣、香港、中國、菲律賓、印尼、越南、馬來西亞等。他曾密切與投資者、企業和政府就生物多樣性評估、管理和保護等主題合作過。

Jovy Tam is the Managing Partner of ERM in Taiwan, with over 20 years of experience of advising private and public sector on managing risks and impacts related to nature. His experience cover a wide range of industries including power, mining, energy, chemical manufacturing etc. in the Asia Pacific region including Taiwan, Hong Kong, China, Philippines, Indonesia, Vietnam, Malaysia etc. He has worked closely with investor, corporate and government on the topic of biodiversity assessment, management and conservation.

### 企業永續新關注—國際自然正向倡議

## New Corporate Sustainability Focus – The International Nature Positivity Initiative

### 內容簡介 / *Speech Summary*

包括生物多樣性和水在內的與自然相關的議題在企業永續發展圈中已逐漸興起，成為公司領導議程上最迫切的主題之一。在許多方面，商業和自然有著千絲萬縷的聯繫，特別是對於更依賴自然資源和生態系統服務的企業。因此，了解與自然相關的風險和機會對於維持業務運作和競爭力至關重要。

企業揭露與自然相關的資訊的壓力越來越大。正如TCFD框架支援更全面的氣候風險和機會揭露一樣，TNFD框架將幫助指導公司揭露與自然相關風險和機會的相關資訊。

在本次演講中，我們將分享 TNFD 對商業的影響，以及如何開啟揭露之旅以實現自然正向目標的見解。

Nature-related topics, including biodiversity and water, are on the rise in corporate sustainability circles, becoming some of the most urgent topics on companies' leadership agendas. In many ways, business and nature are inextricably linked, especially for businesses which rely on natural resources (e.g., water, sand, and metals) and ecosystem services (e.g., pollination, water purification, and carbon storage) more heavily.

Therefore, understanding nature-related risks and opportunities becomes critical to maintaining business operations and competitiveness.

The pressure on businesses for nature-related corporate disclosure is rising. Just as the Task Force on Climate-related Financial Disclosures (TCFD) Framework supports more comprehensive reporting on climate, the Taskforce on Nature-related Financial Disclosures (TNFD) will help guide companies in disclosing information related to nature-related risks and opportunities.

In this presentation, the implications of TNFD on business will be shared with insights on how to start the journey of disclosure towards goal of nature positive.



SPEAKER / 講師姓名

## 江立偉 / Eddie Chiang

愛德華先進 工業與科學真空 資深業務經理  
Senior Sales Manager, Edwards Vacuum

### 講師經歷 / Speaker Experience

江立偉先生於2011年加入EDWARDS團隊，目前擔任資深業務經理一職，負責工業及科學真空領域的業務發展，已有超過25年各大產業、市場及應用之經驗，主要業務範圍涵蓋石化、化工、生技、電力、設備商、工程產業、印刷電路板等產業。

Eddie Chiang joined the Edwards Vacuum in 2011 and currently as a senior business manager, responsible for business development of industrial and scientific vacuum. He has more than 25 years of experience in various major industries, markets, and applications. His main business scope included with petrochemical, chemical, Biotechnology, electric power, equipment manufacturers, engineering industry, printed circuit board and other industries.

### 真空解決方案於永續綠能技術之重要性

## The Significance of Vacuum Solutions in Sustainable Green Energy Technology

### 內容簡介 / Speech Summary

綠能不僅是氣候變遷減緩的解決方法，更可帶動永續發展的腳步，隨著終端客戶對可再生能源和節能需求的持續增長，製造商需要應對挑戰，同時又不影響其製程或製造環境，愛德華針對碳捕捉技術與再生能源提供節能、可規模式調整的客製化真空解決方案和專業技術協助您以創新與節能的方式最佳化生產效率與產能，同時提高安全性和環境標準。

Green energy is not only a solution to slow down climate change, but also being a driver of sustainable development. As end customers' demand for renewable energy and energy conservation continues to grow, manufacturers need to meet challenges without affecting their processes or manufacturing environment. Edward provides energy-saving, scalable customized vacuum solutions and professional technology for carbon capture technology and renewable energy to help you optimize production efficiency and capacity with innovative and energy-saving ways, while improving safety and environmental standards.





SPEAKER / 講師姓名

## 李長穎 / Dr. John Lee

日成科技股份有限公司 執行長  
Manager Director, OSA - International

### 講師經歷 / Speaker Experience

#### 工作

- 執行長, 日成科技, 2021 - , 基載再生綠能系統
- 銷售經理, 卡特彼勒公司, 2009-2021, 天然氣產品銷售, 整個亞太地區
- 項目經理, 卡特彼勒公司, 2006-2009, 煤礦瓦斯發電
- 高級首席工程師, Solar Turbines Inc, 2001-2006, 燃燒系統設計
- 首席工程師, Solo Energy Corp, 2000-2001, 燃燒系統設計

#### 教育

- 博士, 華盛頓大學, 1995-2000, 燃燒, NOX, 內燃機
- 博士 (未完成), 康奈爾大學, 1991-1992, 燃燒 - 微重力液滴
- 碩士, 紐約州立大學水牛城分校, 1989-1991, 燃燒 - 危險廢物焚燒
- 學士, 普渡大學, 1986-1989, 航空航太 - 推進系統

#### Work

- Managing Director, OSA, 2021 to current, base load renewable systems
- Sales Manager, Caterpillar Inc, 2009-2020, gas product sales, all of Asia Pacific
- Project Manager, Caterpillar Inc, 2006-2009, coal mine methane power generation
- Sr. Principal Engineer, Solar Turbines Inc, 2001-2006, gas turbine combustion systems design
- Principal Engineer, Solo Energy Corp, 2000-2001, micro gas turbine combustion systems design

#### Education

- Ph.d., University of Washington, 1995-2000, combustion, NOX mechanisms, internal combustion engines (gas turbines)
- Ph.D. (uncompleted), Cornell University, 1992-1993, microgravity combustion
- MS, SUNY Buffalo, 1989-1991, combustion, hazardous waste incineration
- BS, Purdue University, 1986-1989, propulsion, aeronautics and astronautics

### 地熱電廠專案開發之最佳案例研討

## Best practices in geothermal power plant project development

### 內容簡介 / Speech Summary

此專題將探討成功的地熱專案開發之關鍵步驟, 將著重於透過技術、商業與財務的方面來降低專案風險, 以達成電廠營運的長期成功。

This talk will focus on the key steps that should be followed for successful geothermal power plant project development. We will focus on how to technically, commercially and financially derisk the project and enable long term success of the power plant operations.



SPEAKER / 講師姓名

## 林哲次 / Joseph Lin

怡安保險經紀人股份有限公司 副總經理  
Vice General Manager, AON Taiwan

### 講師經歷 / *Speaker Experience*

#### 專業經驗

- 2015加入Aon專責離岸及陸域風力發電、太陽能電廠、儲能案場及電動車供應鏈風險預防顧問工作。
- 超過25年從事火災安全工程、核保查勘調查與風險控管經驗。

#### 學歷及專業證照

- Ulster大學防火安全工程博士 (英國)
- 消防設備師執照 (台灣)
- 國家一級安全評價師執照(中國)
- Certificate of GWO Basic Safety Training (BST)

### Professional Experience

- 2015 joined Aon Taiwan, responsible for risk consulting service, focusing on offshore /onshore Wind, PV farm, BESS, EV Factory.
- 25 years of work experience in fire safety engineering, underwriter survey / reporting, risk management.

### Education / Certificate

- Ph.D. in Fire Safety Engineering, University of Ulster (U.K.)
- Certified Fire Prevention Engineer (TW)
- 1st Level Safety Assessment Engineer (CN)
- Certificate of GWO Basic Safety Training (BST)

## 儲能系統防火安全 Energy Storage System Fire Safety

### 內容簡介 / *Speech Summary*

鑑於儲能系統隨再生能源發展及電力儲存需求而快速成長，了解儲能系統風險便成為投資人、貸款銀行、保險公司、施工廠商甚至一般民眾的重要課題。首先，林博士會讓大家了解儲能系統以及鋰電池的潛在風險，在簡單介紹儲能系統的安全設計。

In view of the rapid growth of energy storage systems with the development of renewable energy and demand for power storage, understanding the risks of energy storage systems has become an important issue for investors, lending banks, insurers, construction manufacturers and even the general public. First, Dr. Lin will let everyone know about the potential risks of energy storage systems and lithium batteries, and then briefly introduce the safety design of energy storage systems.



SPEAKER / 講師姓名

## 謝承宇 / CY (Brian) Xie

匠普系統工程股份有限公司 經理  
Manager, KINETIC Systems Engineering & Services Inc.

### 講師經歷 / *Speaker Experience*

石油化學工業設備銷售服務15年經歷。  
ABB、AMETEK、ESURGING等國際大廠設備銷售顧問。

Oil & Gas industry project and sales experience for 15 years.  
Chemical engineering background, experience with Oil & Gas industry over 15 years in sales experience with executing product launch, new market development and service after sales in key account.

## 節能設備-磁懸浮高速離心式風機 Energy-Efficient Equipment. Magnetic Levitation High-Speed Centrifugal Fan

### 內容簡介 / *Speech Summary*

匠普公司提供之磁懸浮風機，採用磁懸浮軸承和高速永磁同步電機，運用全球領先的透平機械設計技術研製而成。

技術優勢(含節能減碳潛力)：

- (1) 節能高效：高速永磁電機與高效三元流葉輪直接偶和驅動，風機能耗比傳統魯式鼓風機低30-40%，比多級離心風機低20%以上，比單級高速風機低10-15%
- (2) 低噪音：採用自平衡技術，磁懸浮軸承振動量比傳統軸承小，採用主動減振設計和整體箱式結構，機體振動小，風機噪音80 dB以下；
- (3) 智能控制：採用PLC+GPRS/3G，可即時監控風機運行狀態，實現風量/風壓與轉速等自動調控，若出現故障，可以遠程維修與調適
- (4) 降低維護人力：磁懸浮軸承，無接觸，無磨擦，無須潤滑，模組化撬裝結構，方便安裝，日常作業僅需要更換濾心，降低維護人力。

Kinetic - Esurging maglev blower, whose noise level is below 80dB, can save more than 30% of energy compared with conventional one. It is an energy-saving and environmental protection product with intelligent control and maintenance free, which has been widely used in Taiwan.



SPEAKER / 講師姓名

## 李昱慶 / Andrew Lee

安葆國際實業股份有限公司

AM-POWER Machine International Enterprise Co., Ltd.

### 講師經歷 / Speaker Experience

李昱慶先生畢業於國立清華大學動力機械學系，擁有豐富的能源領域專業知識。目前，他擔任安葆電能再生能源方案的銷售負責人。在李昱慶的職業生涯中，他成功執行了多個重要的再生能源專案，如東糖能源的沼氣發電機專案、桃園生質能的沼氣發電機專案、光宇應用材料的氫氣發電機專案及龜山永豐餘的沼氣發電機專案等。

李昱慶先生致力於在台灣推動再生能源的解決方案，並將他的專業知識和產業經驗運用於創建臺灣可再生能源的未來。

Mr. Yu-Ching Lee graduated from the Department of Power Mechanical Engineering at National Tsing Hua University, bringing with him a wealth of expertise in the field of energy. Currently, he holds the position of Sales Manager for Renewable Energy Solutions at AMPOWER. Throughout his professional journey, Mr. Lee has successfully executed several pivotal projects in the realm of renewable energy. These include the biogas power generator project for Tung Sugar Energy Service Co., the biogas power generator project for Taoyuan City Biomass Energy Center, the hydrogen power generator project for Semisils Applied Materials Corp., and the biogas power generator project for Yong Feng Yu in Guishan. Mr. Lee is committed to advancing renewable energy solutions in Taiwan and applying his specialized knowledge and industry experience to shape the future of renewable energy on the island.

### 向歐洲借鏡－住宅環境淨零碳排能源策略

#### Lessons from Europe:

#### Residential Environment Net-Zero Carbon Emission Energy Strategy

### 內容簡介 / Speech Summary

氫能發展不僅在歐洲，對台灣的綠能政策也至關重要。這場演講將引領您深入探索歐洲的氫能發展現況以及實際案例的運作。

為何歐洲將氫能視為綠能發展的關鍵？台灣和歐洲在綠能發展的路上有哪些相似之處？歐洲是如何實現分散式電網的？台灣是否已經實現100% 氫氣發電運轉？

全方位的電力解決方案提供者－安葆電能將向您分享氫能在歐洲和台灣綠能發展中扮演不可或缺的角色。讓我們探討氫能如何成為推動綠色能源革命的重要元素，了解氫能如何引領未來的綠色能源發展，以更清潔和永續的方式為環境做出貢獻。

Hydrogen energy plays a crucial role in both European and Taiwanese energy policies. At this speech, we will explore current European developments and operational projects, and discover why Europe considers hydrogen energy a vital milestone in renewable energy.

Also, uncover the similarities between Europe and Taiwan in their renewable energy pathways and how Europe is making distributed grids a reality. And we will witness Taiwan is achieving 100% hydrogen-based electrical generation.

We are AMPOWER, your complete power solutions provider. Join our speech to delve into the indispensable role of hydrogen energy in Taiwan's renewable energy landscape.



# IFPSM 永續供應論壇

GLOBAL STANDARD FOR PROFESSIONAL COMPETENCE  
IN PURCHASING & SUPPLY MANAGEMENT

11/23 10:30-12:30

創新舞台  
Stage Innovation

## 國際採購與供應管理聯盟 亞太地區 Sustainable Supply Forum (IFPSMAP)

**賴樹鑫**台灣永續供應協會 創會理事長 /  
國際採購與供應管理聯盟 理事會成員**呂文賢** 博士亞洲永續產品與供應鏈發展 資深合夥人  
永續環境管理顧問 資深合夥人 /  
台灣永續供應協會 理事**吳惠群** 博士

香港物資採購與供銷學會 會長

**楊佐良**

馬來西亞採購與物資管理協會 會長

| 時間 / Time   | 講題 / Topic  | 講者 / Speaker  |
|-------------|---|---|
| 10:30-10:40 | 開幕致詞<br>Opening Remarks "Solutions toward Net Zero"   | 賴樹鑫 台灣永續供應協會 創會理事長 /<br>國際採購與供應管理聯盟 理事會成員<br>Shu-Shin (Steve) LAI<br>Founding Chairman, TASS  |
| 10:40-11:00 | 中國與亞洲的永續供應鏈發展趨勢<br>Sustainable Supply Chain Development in<br>China and Asia                      | 蔡進 國際採購與供應管理聯盟 副會長 / 亞太地區 主席 /<br>中國物流與採購聯合會 副會長<br>CAI Jin<br>Vice President & Regional Chair AP, IFPSM<br>Vice President, CFLP, China                                       |
| 11:00-11:20 | 永續產品與供應鏈的發展趨勢及因應<br>Trends and Strategies in Sustainable Products<br>and Supply Chain Development | 呂文賢 亞洲永續產品與供應鏈發展 資深合夥人 /<br>永豐環境管理顧問 資深合夥人 / 台灣永續供應協會 理事<br>Dr. James LEU Senior Partner,<br>Asia Sustainable Product and Supply Chain Lead, ERM Taiwan<br>Board Member, TASS |
| 11:20-11:40 | 在不斷變動情境下的淨零領導力<br>Net Zero Leadership in an Ever-changing<br>Scenario                             | 吳惠群教授 香港物資採購與供銷學會 會長<br>Prof. Stephen W.K. NG President, IPSHK, Hong Kong   |
| 11:40-12:00 | 亞太地區清真供應鏈戰略發展<br>Strategic Halal Supply Chain Development in<br>Malaysia and AP                   | 楊佐良 馬來西亞採購與物資管理協會 會長<br>YANG Chor Leong President, MIPMM, Malaysia  |
| 12:00-12:30 | 論壇討論：亞太地區永續供應最佳實務典範<br>Asia Pacific Sustainable Supply Best Practices                             | 主持人：賴樹鑫 台灣永續供應協會 創會理事長<br>與談人：呂文賢博士、吳惠群博士、楊佐良、肖書懷<br>Moderator: Shu-Shin (Steve) LAI Founding Chairman, TASS<br>Panelists: Dr. LEU, Prof. NG, YANG, XIAO Shuhuai              |
| 12:30       | 閉幕謝詞<br>Closing Remarks   | 賴樹鑫 台灣永續供應協會 創會理事長 /<br>國際採購與供應管理聯盟 理事會成員<br>Shu-Shin (Steve) LAI   |



國立高雄科技大學  
National Kaohsiung University of Science and Technology

成大南方科研平台

GLORIA 2.0 SOUTH

NKUST Forum

淨零永續產學攜手技術交流

論壇時間：11月23日(四)

論壇地點：高雄展覽館 TASS展 創新舞台

| 時間            | 議程                              | 主講人                             |
|---------------|---------------------------------|---------------------------------|
| 13:30 - 13:35 | 報到                              | —                               |
| 14:00 - 14:10 | 活動引言                            | 主辦單位                            |
| 14:10 - 14:30 | 積層製造透氣模具                        | 國立高雄科技大學<br>模具工程系 蔡孟修副教授        |
| 14:30 - 14:50 | 非接觸式聲學預知保養技術                    | 國立高雄科技大學<br>資訊管理系 陳彥銘特聘教授       |
| 14:50 - 15:10 | 綠色能源創新：海水電池、產氫<br>與離岸風機生物附著抑制技術 | 國立高雄科技大學<br>輪機工程系 慈復明副教授        |
| 15:10 - 15:30 | 創新超微氣泡土壤清洗技術                    | 國立高雄科技大學<br>環境與安全衛生工程系<br>陳勝一教授 |
| 15:30 - 15:40 | 結語                              | 主辦單位                            |

\*主辦單位保有最終修改、變更及取消之權利

指導單位：國家科學及技術委員會

主辦單位：國立成功大學(大南方科研產業化平台)

執行單位：國立高雄科技大學

協辦單位：國立虎尾科技大學、遠東科技大學、正修科技大學、南臺科技大學、

國立屏東大學、國立臺南護理專科學校、崑山科技大學、長榮大學、國立東華大學



## TASS 2023 ESG Forum (Session III IV) ESG解決方案論壇 (三) (四)

11/24 10:30-15:25

◎ 永續舞台 Stage Sustainability

# 推展資源循環 協助產業轉型

## Net Zero Solutions



賴瑩瑩

環境部 資源循環署署長



謝雅敏

成信 總經理



曾獻弘

台灣音維舒環測 銷售經理



Wilson Tien

數揚科技 產品總監



江舟峰

中國醫藥大學 教授



Ken Tse 斯克誠

ERM 技術總監



楊裕憲

元業綠能 總經理



董軒宇

威煦軟體開發



張福麟

豐溢綠能材料 經理



陳威翔

中山大學環工所 教授



林正雄

雄材大智 總經理

| 時間 / Time   | 講題 / Topic  | 講者 / Speaker  |
|-------------|---|---|
| 10:35-10:50 | 專題演講：臺灣資源循環推動政策與發展<br>Taiwan's Resource Circulation Policies and Development  | 環境部 資源循環署 賴瑩瑩 署長<br>Ying-Ying Lai<br>Director, Resource Circulation Administration<br>Ministry of Environment   |
| 10:50-11:05 | 半導體資源循環案例分享<br>Semiconductor Resource Circularity Case Study  | 成信 謝雅敏 總經理<br>Dr. Yasmin Hsieh<br>General Manager, Transcene Corp.  |
| 11:05-11:35 | 落實您的ESG - 默克綠色產品介紹與實例分享<br>Implementing Your ESG:<br>Merck Green Product Introduction & Case Study  | 台灣默克 陳慶龍 資深產品經理<br>QL (Walker) Chen<br>Senior Product Manager<br>Merck Science & Lab Solutions Commercial Taiwan  |
| 11:35-12:05 | OMNIS 環境智能平台<br>OMNIS Environmental Intelligence Platform   | 台灣音維舒環測 曾獻弘 銷售經理<br>Young Tseng<br>Sales Manager, Envirosuite Taiwan Ltd.   |
| 12:05-12:20 | 漫談淨零排放與碳盤查<br>A Brief Talk on Net-Zero Emissions & Carbon Inventory   | 數揚科技 Wilson Tien 產品總監<br>Wilson Tien<br>Product Director, Galaxy Software Services Corp.  |
| 13:35-13:50 | 空污異味陳情事件追蹤與預警之決策支援系統開發<br>Development of a Decision Support System for Tracking and Alerting Air Pollution and Odor Complaint Incidents   | 中國醫藥大學 江舟峰 教授<br>Dr./Prof. Amur Chiang<br>China Medical University, Taiwan  |
| 13:50-14:10 | 永續工廠的挑戰—如何降低資產移轉時的土地風險<br>The Challenges of Sustainable Factories:<br>How to Reduce Land Contamination Risks during Asset Transfer  | ERM Ken Tse 斯克誠 技術總監<br>Dr. Ken Tse<br>Technical Director, ERM Taiwan   |
| 14:10-14:25 | 碳解方<br>Carbon Solution  | 元業綠能 楊裕憲 總經理<br>Yuxian Yang<br>General Manager, YUAN YEH Green Energy   |
| 14:25-14:40 | ESG數位轉型趨勢與實務分享<br>ESG Digital Transformation Trends and Practical Insights  | 威煦軟體開發 董軒宇<br>Xuanyu Dong, Wishing-Soft   |
| 14:40-14:55 | 垃圾變黃金，如何將循環經濟導入一線國際品牌案例分享<br>Turning Trash into Gold: Case Studies on Implementing the Circular Economy in Leading International Brands   | 豐溢綠能材料 張福麟 經理<br>Fulin Zhang<br>Manager, Global Green Material Co., Ltd.<br>Marine Debris Recycling Coalition, Ocean Conservation Administration, Ocean Council |
| 14:55-15:10 | 中水廠濃排水回收再生最適策略開發與成本效益分析<br>Development of Optimal Strategies for Concentrated Wastewater Recycling and Regeneration in Central Water Treatment Plants and Cost-Benefit Analysis | 中山大學環工所 陳威翔 教授<br>Dr./Prof. Wei-Hsiang Chen<br>Institute of Environmental Engineering<br>National Sun Yat-sen University  |
| 15:10-15:25 | 廢棄紡織品回收再製可能性<br>Possibilities of Waste Fabrics Recycling  | 雄材大智 林正雄 總經理<br>Dr. Zhengxion Lin<br>General Manager<br>Strong and Wise Material Tech Company   |



SPEAKER / 講師姓名

## 賴瑩瑩 / Ying-Ying Lai

環境部資源循環署 署長

Director, Resource Circulation Administration, Ministry of Environment

### 講師經歷 / Speaker Experience

- 廢棄物管理處處長
- 技監兼土壤及地下水污染整治基金管理會執行秘書
- 廢棄物管理處副處長
- 管考處副處長
- Executive Director, Soil and Groundwater Remediation Fund Management Board, EPA
- Deputy Director General, Department of Waste Management, EPA
- Deputy Director General, Department of Supervision Evaluation & Dispute Resolution, EPA

### 臺灣資源循環推動政策與發展

## Taiwan's Resource Circulation Policies and Development

### 內容簡介 / Speech Summary

推動循環經濟、資源回收零廢棄的政策主導下，事業廢棄物為廢棄物管理的重要一環。資源循環署未來修法方向為：從整體系統性的改變，以資源循環為主軸，提升廢棄物資源再利用，接軌國際循環趨勢，啟動廢棄物清理法修法，翻轉廢棄物定義，推動資源極大化、廢棄物極小化。

Industrial waste is an important target of the overall waste control under the policies aiming for a circular economy as well as recycling and zero waste. The Resource Circulation Administration (RCA) emphasized that future revisions will focus on an overall change that is centered on resource recycling, while keeping abreast of the latest international recycling trends. Through amending the Waste Disposal Act (廢棄物清理法), the RCA will redefine what constitutes "wastes" in order to maximize resource utilization and minimize waste generation.





SPEAKER / 講師姓名

## 謝雅敏 / Dr. Yasmin Hsieh

成信實業股份有限公司 總經理  
General Manager, Transcene Corp.

### 講師經歷 / Speaker Experience

- 2019成信實業 總經理
  - 2015成亞資源 副總
  - 2008日本東京大學環境科學系 研究員
  - 2005台灣首府大學 助理教授
  - 2005國立成功大學資源工程系 博士
- 
- 2019 to present : General Manager, Transcene Corp.
  - 2015 : Deputy General Manager, Chenya Resources Technology
  - 2008 : Visiting Researcher, Department of Environmental Science, University of Tokyo, Japan
  - 2005 : Assistant Professor, Taiwan Shoufu University, Taiwan
  - 2005 : Ph.D., Department of Resources Engineering, National Cheng Kung University, Taiwan

### 半導體資源循環案例分享

## Semiconductor Resource Circularity Case Study

### 內容簡介 / Speech Summary

介紹成信公司開發出的幾個半導體產業的廢棄物循環案例，廢棄物分別來自長晶廠、晶圓代工廠、封裝廠等上中下游之工廠，包含晶棒切片污泥、化學機械研磨污泥、封裝製程廢膠條、研磨含矽廢水等。成信透過持續投入技術開發工作，滿足企業追求永續的零廢棄需求。

In this speech, Dr. Hsieh will introduce several waste recycling cases in the semiconductor industry developed by Transcene Corp.. These wastes come from crystal growth plants, wafer foundries, packaging plants and other factories. These wastes include ingot slicing waste, chemical mechanical polishing sludge, packaging process waste epoxy molding compound, grinding silicon-containing wastewater, etc. Transcene Corp. continues to invest in technology development to meet the sustainable zero-waste needs of enterprises.

**SPEAKER / 講師姓名**

## 陳慶龍 / QL (Walker) Chen

台灣默克股份有限公司 資深產品經理  
Senior Product Manager  
Merck Science & Lab Solutions Commercial Taiwan

### 講師經歷 / *Speaker Experience*

台灣默克生命科學事業體 資深產品經理  
Senior Product Manager, Merck Science & Lab Solutions Commercial Taiwan

## 落實您的ESG - 默克綠色產品介紹與實例分享 Implementing Your ESG: Merck Green Product Introduction & Case Study

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### 內容簡介 / *Speech Summary*

結合默克近年主力推廣之綠色替代化學品之特點與優勢，協助您迅速找出自身產業可應用之方向，落實 ESG。

We will present a range of sustainable solutions to assist you in aligning with Environmental, Social, and Governance (ESG) principles, thereby enhancing your company's sustainability performance.



SPEAKER / 講師姓名

## 曾獻弘 / Young Tseng

台灣音維舒環測股份有限公司 銷售經理  
Sales Manager, Envirosuite Taiwan Ltd.

### 講師經歷 / Speaker Experience

19年以上B2B設備銷售經歷、14年以上經銷商管理經歷、13年以上專案直銷經歷、5年以上海外市場銷售經歷。

- 全傳智能銷售處長
- 東元電機-重電部門銷售經理
- 全球傳動總經理室經理
- Danfoss高壓泵台灣區銷售經理
- Festo台灣區渠道銷售經理

Over 19 years sales experience included 5 years in oversea sales field and 14 years domestic sales field, expanded equipment sales to Factory Automation, Process Automation, Building Automation, HVAC, Plumbing, Oil&Gas, Water treatment, flat panel displays high pressure cleaning, Firefighting, Refrigeration, Power plant, Shipbuilding, Steel, Commercial building, and IT clean room industries.

Product sales experience.

1. Rotary equipment: AC Motor, Centrifugal Pump, Submersible Pump, Borehole Pump, High Pressure Pump (positive displacement pump), Energy Recovery Device.
2. Fluid control system: Valve, High Pressure Valve, Solenoid Valve, Valve Terminals, VFD, Pressure Tank, Expansion Tank, Balance Valve, Compressed Air preparation.
3. Factory and Process automation: VFD&Control system, Pneumatic Drives&Actuator, Electro-mechanical Drives&Actuator, Servo/Stepper Motor, Motion Controller system, PLC.

## OMNIS環境智能平台

## OMNIS Environmental Intelligence Platform

### 內容簡介 / Speech Summary

全球最先進的環境智能平台，專為航空業、廢棄物管理業、廢水處理業、水處理業、採礦業和工業所打造。我們從您或由我們開發的監測硬體中擷取傳送數據，並轉換至我們相當直觀的軟體介面之中，為您所作的商業決策提供支持。我們偵測[空氣品質、噪音、水質、臭氣、粉塵、振動]等環境因子。我們的客戶來自機場、廢棄物管理業、廢水處理業、水處理業、採礦業和工業，皆仰賴我們打造的即時分析解決方案，在生意營運時獲取即時的回饋。我們提供[預測性建模、即時的智能警報、自動化遵守法規規範、提供受信任及高品質的洞悉報告。

All-in-one environmental monitoring software to unlock value beyond compliance and future proof your operation. Environmental monitoring software that becomes your eyes, ears and nose on the ground. Air quality, noise, fugitive dust, and other emissions leaving your facility's boundaries can trigger community complaints. Knowing when you are operating within your compliance limits can be the difference between staying operational and shutting down.

Omnis displays your site's emission levels across multiple parameters, when you run the risk of exceeding them and exactly where you should focus mitigation efforts. Your team will be able to slow down when you need to or double down on production when there's no risk of impact.



SPEAKER / 講師姓名

## 田欣 / Wilson Tien

叡揚資訊股份有限公司 雲端及巨資事業群 產品總監  
Product Director  
Galaxy Software Services Corp.

### 講師經歷 / *Speaker Experience*

現任叡揚資訊股份有限公司雲端產品總監，曾擔任JLR China IT副總裁，CG China 資深諮詢師，也在台灣ODM House擔任移動設備軟體負責人，擁有橫跨Engineer SW及IT雙領域的完整資歷。深度參與公司碳盤查相關軟體產品開發，負責零碳雲產品與遠傳EMS系統對接的PoC專案，並規劃相關產品化的後續工程。個人專長包含：碳盤查，企業數位轉型，企業技術策略擬定，軟體工程，架構設計，研發管理等等。

Wilson Tien, Director of Cloud Products in Galaxy Software Services Corp. (GSS), formerly held the role of VP of IT at JLR China and served as a Senior Consultant at CG China. He also functioned as Head of Mobile Device Software at ODM House in Taiwan, having a comprehensive background in both software engineering and IT. He has played a significant role in developing GSS carbon inventory software, overseeing the Proof of Concept (PoC) for integrating the Vital NetZero with the FarEasTone EMS system, and planning subsequent tasks to commercialize the product. He specializes in carbon inventory, enterprise digital transformation, corporate tech strategy, software engineering, architectural design, and R&D management, etc.

### 漫談淨零排放與碳盤查

## A Brief Talk on Net-Zero Emissions & Carbon Inventory

### 內容簡介 / *Speech Summary*

1. 簡介叡揚
2. 說明碳焦慮來源及建議因應方式
3. 快速介紹CBAM, ISO 50001, ISO 14064-1, ISO 14067
4. 快速展示KPIM-N功能

1. Introduction of Galaxy Software Services Corporation
2. Explanation on the sources of carbon anxiety and suggestion
3. A quick introduction of CBAM, ISO 50001, ISO 14064-1 and ISO 14067
4. A quick introduction of KPIM-N support to the various ISOs and laws



SPEAKER / 講師姓名

## 江舟峰 / Dr./Prof. Amur Chiang

中國醫藥大學公共衛生學系 教授  
China Medical University, Taiwan

### 講師經歷 / Speaker Experience

- 美國愛荷華州立大學環境衛生工程 博士
- 中國醫藥大學公共衛生學系/食品安碩士學程 教授
- 中國醫藥大學風險分析中心 主任
- 中國醫藥大學風險管理學系 主任
- 中國醫藥大學學習中心主任、教務長
- 衛生福利部食品安全風險評估諮議會 委員
- 衛生福利部食品安全保護基金運作管理監督小組 委員
- 美國環保署國家環境評估中心 (NCEA) 訪問學者
- 北京大學環境學院 訪問學者
- 台中縣市環境影響評估委員會 委員
- Ph.D., Environmental Sanitary Engineering, Iowa State University, USA.
- Prof. China Medical University, Dept. of Public Health, Master of Science Program of Food Safety.
- Director, China Medical University, Center for Risk Analysis.
- Chair, Dept. of Health Risk Management, CMU.
- Dean of Academic Affair, China Medical University.
- Director, China Medical University, Center for Learning.
- Member, Minister of Health and Welfare, Food Safety Risk Assessment Advisory Council
- Member, Minister of Health and Welfare, Food Safety Protection Fund and Operation Management Supervision Group.
- Visiting Scholar, National Center for Environmental Assessment (NCEA), USA.
- Visiting Scholar, Peking University, School of Environment, China.
- Member of the Taichung County/City Environmental Impact Assessment Committee.

## 空污異味陳情事件追蹤與預警之決策支援系統開發 Development of a Decision Support System for Tracking and Alerting Air Pollution and Odor Complaint Incidents

### 內容簡介 / Speech Summary

楠梓科技產業園區與住宅區毗鄰，異味空污陳情數居高不下，為高雄市環保局巡查的重點。然而，異味陳情係基於民眾的即時感知，異味事件的裁處則須根據異味官能測定，目前並無即時的感測器採檢技術。文獻中常使用逆軌跡或正矩陣因子等受體模式，來追蹤污染源，但這些受體模式多屬於大範圍(10~100 km)之追蹤技術，並不適用本案之小區域(< 2 km)。本研究研發三套小區域的溯源技術：氣象站時風花圖、濃度花圖及TVOC感測器等濃度圖，以判斷異味源與陳情點之上下風關係。並開發一套動態圖臺技術，介接氣象及感測器數據，即時自動比對疑似異味源。解決異味事件，可實踐聯合國ESG倡議，也可呼應金管會永續發展藍圖，提昇公司於環境保護及社會責任面向之需求。

The Nanzih Technology Industrial Park is adjacent to residential areas and has a high number of odor and air pollution complaints, making it a focal point for environmental inspections by the Kaohsiung Environmental Protection Bureau. However, odor events are based on immediate public perception, and the handling of odor events requires odorant measurements, for which there are currently no real-time sensors. Commonly used receptor models such as back trajectories or positive matrix factorization in the literature are typically designed for tracking pollution sources over larger areas (10~100 km), making them unsuitable for this case's smaller area (< 2 km). In this study, we developed three small-area source tracking techniques: hourly wind rose, concentration rose, and TVOC contours to determine the upwind and downwind relationships between suspected odor sources and complaint site. We also created a decision support system for odor events tracking that integrates meteorological and sensor data, allowing for real-time matching of suspected odor sources. Resolving odor events can fulfill the United Nations' ESG initiative and address the requirements of the Financial Supervisory Commission's Sustainable Development Blueprint, enhancing the company's focus on environmental protection and social responsibility.



SPEAKER / 講師姓名

## 斯克誠 / Dr. Ken Tse

永澧環境管理顧問 (ERM Taiwan) 技術總監  
Technical Director, ERM Taiwan

### 講師經歷 / Speaker Experience

斯克誠博士為臺灣大學環境工程學博士、美國密西根大學環境工程學碩士、及臺灣大學土木系學士。從事場址環境調查、污染場址整治工作超過三十年以上，曾在美國、臺灣、馬來西亞、東南亞國家、中國大陸工作。

斯博士歷任臺灣土壤及地下水環境保護協會的秘書長、理事、監事，台灣環境工程技師公會理事，並且是亞太經合會 (APEC) 之註冊工程師。專長在於大型土地污染整治專案之監督管理、污染場址之整治工作。所曾服務過的客戶包括：國際大型石油公司、化學品製造公司、電子產品工廠，也包括台灣的石油公司、電力公司、環保署、各地環保局等政府單位。所曾處理過之污染物包括：石油類、重金屬、農藥、有機氯溶劑等。

Dr. Tse has been working in the environmental management, site solutions consulting and engineering for 30 years. He has worked in USA, Taiwan, Malaysia, East Asia countries and China, pursuing large projects and programs, leading professional teams, taking responsibilities of many large remediation projects for clients including oil and gas refineries, petrochemical, power plants, pharmaceutical, gas stations, and chemical industries.

His experiences in remediation technologies include: nano zero valent iron (nZVI) injection, on-site thermal desorption, in-situ steam injection, Fenton in-situ chemical oxidation, sodium persulfate in-situ chemical oxidation, SVE, air sparging, and hydraulic control. In addition, his professional knowledge includes numerical modelling for groundwater fate and transport using Visual MODFLOW, REMFuel, BioScreen, T2VOC, and TOUGH2. He also has strong technical knowledge in human health risk assessment and is able to develop a sustainable remediation plan for complicated sites.

### 永續工廠的挑戰 - 如何降低資產移轉時的土地汙染風險

## The Challenges of Sustainable Factories: How to Reduce Land Contamination Risks during Asset Transfer

### 內容簡介 / Speech Summary

永續工廠的建立是當今製造業的一個關鍵焦點，但要實現這一目標，避免或降低土地汙染風險是一項重要的課題。特別是在資產移轉過程中，評估土地環境是否有汙染風險是一個關鍵點。在進行土地交易前評估所選用地的歷史紀錄、過去土地用途、潛在的環境風險。並且進行階段性的場址調查，查驗土地是否存在有害化學物質。

另一方面，在運營中的工廠中，也應持續進行環境監測，這包括土壤、地下水、廢水排放、廢氣的監控，以確保不會對土地造成汙染。如此才能避免土地汙染風險，不至於造成未來土地資產移轉時的困擾。

如果土地上存在汙染物，應即時進行整治，以免汙染日益惡化。這需要精心計劃，以確保整治工作有效率，並符合綠色永續整治的理念，例如現地生物整治。

總之，土地汙染風險的管理是永續工廠的一大課題，需要完整的規範且持續性的執行。

The establishment of sustainable factories is a key focus in today's manufacturing industry. However, to achieve this goal, it is crucial to address and mitigate the risks of land contamination, particularly during asset transfers. Assessing whether there are contamination risks in the land environment is a critical point in the process. Before engaging in land transactions, it's essential to evaluate the historical records, past land usage, and potential environmental risks associated with the selected site. Conducting phased Environmental Site Assessment (ESA) to check for hazardous chemicals in the land is also vital.

If contamination is detected on the land, prompt remediation should be undertaken to prevent the situation from worsening. This requires careful planning to ensure that the remediation work is efficient and aligns with the principles of green and sustainable remediation, such as in-situ bioremediation.

In summary, managing the risk of land contamination is a significant challenge in the context of sustainable factories, and it requires comprehensive and continuous implementation of regulations and best practices.



SPEAKER / 講師姓名

## 楊裕憲 / Yuxian Yang

元業綠能驗證有限公司 總經理  
General Manager, YUAN YE Green Energy

### 講師經歷 / Speaker Experience

- 中華軟體協會一日碳盤查講師
- 工業局一日碳盤查-講師
- 高雄市爭議調處公會-委員兼調解室室長
- 高雄市地政士公會-公關委員
- 裕憲地政士事務所-所長
- 睿立資產管理顧問有限公司-總經理
- 元業綠能驗證有限公司-總經理
- IAS ISO 14001 Lead Auditor
- IAS ISO 14064-1 Lead Verifier
- IAS ISO 14064-2 Lead Validator
- IAS ISO 14067 Lead Verifier
- Information Service Industry Association of R.O.C. \_ Carbon emissions Lecturer
- Industrial Development Administration\_ Carbon emissions Lecturer
- Kaohsiung Mediator Union\_ Member & Mediation chief
- Kaohsiung Land Administration Agent Guild\_ PR committee member
- Yu Xian Land Registration Office\_ Director
- Rui Li Asset Management Consultant Co., Ltd\_ General manager
- Yuen Yeh Green Energy Verification Co., Ltd\_ General manager

### 碳解方 Carbon Solution

#### 內容簡介 / Speech Summary

現今大地球圈都在找溫室氣體及全球溫度減量方針，每個國家都在提自主減量方式及自定貢獻，例如台灣自定義貢獻，則以2005年為基準年並期望在2050年相較基準年的碳排放量減少23%~25%左右。為此我們元業便提供了一套能源控制系統，以AI圖控模型搭配樓宇控制系統，有效模擬相關冷卻水塔及冰水主機的能源輸出，達到最有效運作化目標，通常可以達到總廠域節電5~8% 的目標再搭配微生物劑，讓冷卻水的污垢清除，可以讓冰水主機回復到原廠出廠時的品質，便可以減少總廠域10%的能源消耗。工業廢水的二氧化碳排放不亞於能源消耗，元業提供如何有效做出水循環與微生物藥劑及水處理捕捉劑，幫助解決製程廢水的困擾亦減少廢水處理費用。

Today entire Earth are looking for solutions to reduce Greenhouse gases and global temperature, Countries are providing self-reduction solution and contribution. For example, Taiwan expects carbon emissions to be reduced by 23%~25% in 2050 compared with 2005.

So, Yuen Yeh provide a Power control system based on AI graphically control model combined building control system. Effectively simulate the energy output of cooling water tower and host machine to achieve the most effective operational goals. Usually, can achieve the goal of saving 5~8% of the plant area's energy. When combined with microbial potions to remove the grime in the cooling water, and the host machine can be restored to the original quality when it leaves the factory. It will reduce the plant area's energy consumption by 10%.

The carbon dioxide emissions of industrial wastewater are no less than energy consumption. Yuen Yeh also provides how to effectively produce water circulation, microbial potions and water treatment potions to help solving the problems of process wastewater and reduce wastewater treatment costs.



SPEAKER / 講師姓名

## 董軒宇 / Xuanyu Dong

威煦軟體開發有限公司  
Wishing-Soft

### 講師經歷 / *Speaker Experience*

- 2012年創立威煦軟體
- 入選微軟新創加速器、Orange Fab、AAMA、天下永續會
- 日本、香港、中國、法國等國際ESH與ESG論壇分享
- 參與環安衛領域相關政策與指引制定(化學品管理、AIoT)
- 打造台灣環安衛 SaaS(訂閱式)軟體領導品牌-環安雲
- Establishing Wishingsoft in 2012
- Selected for Microsoft Startup Accelerator, Orange Fab, AAMA, and the Sustainable Taiwan Association.
- Shared expertise at international ESH and ESG forums in countries such as Japan, Hong Kong, China, and France.
- Participated in the formulation of policies and guidelines related to ESH fields, including chemical management and AIoT.
- Pioneering Taiwan's ESH SaaS software, establishing itself as the leading brand in the field with "EHS Clouds".

## ESG數位轉型趨勢與實務分享 ESG Digital Transformation Trends and Practical Insights

### 內容簡介 / *Speech Summary*

當上市櫃公司不分產業積極投注資源於ESG績效展現時，要如何在評比中獲得佳績成了企業的首要課題，您知道獲得亮眼評比結果的關鍵密碼，其實往往隱藏在衛安衛相關的巨量資料中嗎？

- ESG數據與ESH數位轉型的關聯性
- 碳盤查、碳減量到碳管理的數位化管理
- 永續浪潮下環安衛數據呈現的因應對策

When a publicly listed company, regardless of industry, actively invests resources in demonstrating ESG performance, how to achieve excellent results in evaluations becomes the top priority for businesses. Do you know that the key to obtaining impressive evaluation results is often hidden within the data related to ESH?

- The Relationship between ESG Data and ESH Digital Transformation
- Digital transformation on carbon management
- Strategies for Addressing the Presentation of Environmental, Social, and Health Data in the Sustainable Wave.





SPEAKER / 講師姓名

## 張福麟 / Fulin Zhang

海洋委員會海洋保育署-海廢再生聯盟  
豐溢綠能材料 張福麟 經理

Manager, Global Green Material Co., Ltd.  
Marine Debris Recycling Coalition,  
Ocean Conservation Administration, Ocean Council

### 講師經歷 / Speaker Experience

- 豐溢綠能材料股份有限公司 營銷部 經理
- 大豐環保科技股份有限公司 家電回收課 課長
- 近10年回收再生產業工作經歷
- 國立雲林科技大學企業管理碩士
- 中國材料科學學會111年年會 講師
- 第四屆中國橡膠展x CPRJ再生循環經濟論壇 講師
- Global Green Material Co., Ltd. Sales Department Manager
- DA FON ENVIRONMENTAL TECHNOLOGY CO., LTD. Supervisor
- Nearly 10 years of working experience in recycling industry
- Master of Business Administration, National Yunlin University of Science and Technology
- Lecturer at MRS-Taiwan Annual Meeting 2002
- Lecturer at the 4th Chinaplas x CPRJ Recycling and Circular Economy Forum

### 垃圾變黃金，如何將循環經濟導入一線國際品牌案例分享

## Turning Trash into Gold: Case Studies on Implementing the Circular Economy in Leading International Brands

### 內容簡介 / Speech Summary

避免資源錯置及消極處理，導致最終處理僅能進入焚化爐。豐溢綠能材料為臺灣從回收、處理、再生等再生造粒公司，具有國際認證的再生回收塑膠粒，亦為第一家受頒環境部海廢產品標章認證廠商，提供從海廢漁網、保麗龍所再生的塑膠粒，透過製程的優化、技術的創新，已經可以做到趨近新料等級，建立了一套完整的封閉循環回收系統，並已經與知名品牌業者進行合作，成功打進歐洲精品品牌、歐洲手機品牌以及全球知名的運動用品通路，落實真正的循環經濟。

Avoid misplacement of resources and negative processing, resulting in the final treatment only entering the incinerator. Global Green Material Co. Ltd is a recycling, processing, and pelletizing company in Taiwan.

We have internationally certified recycled plastic . It is also the first manufacturer to be awarded the Ocean Waste Product Label certification by the Ministry of Environment, providing waste fishing nets from the sea. , the plastic pellets recycled from Styrofoam, through process optimization and technological innovation, have been able to approach the level of new materials.

We have established a complete close loop recycling system and have cooperated with well-known brand operators. It has successfully entered European boutique brands, European mobile phone brands and world-renowned sporting goods channels, and implemented a true circular economy.



SPEAKER / 講師姓名

## 陳威翔 / Dr./Prof. Wei-Hsiang Chen

國立中山大學環境工程研究所 教授  
Institute of Environmental Engineering  
National Sun Yat-sen University

### 講師經歷 / Speaker Experience

陳威翔博士為國立中山大學環境工程研究所專任教授，目前同時兼任環境工程研究所所長、工學院副院長、與氣膠科學研究中心副主任。陳威翔博士目前同時擔任中華民國環境工程學會理事及數個學會委員會委員，以及高雄醫學大學健康科學院公共衛生學系合聘教授、藥學院毒理學博士與碩士學位學程合聘教授。過去陳博士亦曾擔任國立中山大學副總務長、國立中山大學環境保護暨安全衛生中心副主任等行政工作。在加入中山團隊之前，陳博士在美國加州戴維斯分校之 John Muir Institute of the Environment 擔任了為期兩年的博士後研究員。陳博士主要學歷為2009年於美國加州大學戴維斯分校得到環境工程博士學位。

Dr. Wei-Hsiang Chen is a professor in the Institute of Environmental Engineering at National Sun Yat-Sen University (NSYSU) in Kaohsiung of Taiwan. He is the Director of the Institute of Environmental Engineering, the Associate Dean of the College of Engineering, and the Associate Director of Aerosol Science Research Center of NSYSU. Dr. Chen is also the Director of the Chinese Institute of Environmental Engineering in Taiwan, the Jointly Appointed Associate Professor in the Department of Public Health and the Jointly Appointed Associate Professor in the Doctor and master's degree Program in Toxicology of Kaohsiung Medical University in Taiwan. He was previously the Associate Vice President for General Affairs and the Vice Chief Executive Officer for Environmental Protection and Safety Center. Before joining NSYSU, Dr. Chen was a Post-Doctoral Scholar in John Muir Institute of the Environment at the University of California in Davis of CA (UCD) since January 2009. Dr. Chen received his Ph.D. degree in Environmental Engineering (Minor in Environmental Chemistry) from the Department of Civil and Environmental Engineering at UCD in 2009.

### 中水廠濃排水回收再生最適策略開發與成本效益分析 Development of Optimal Strategies for Concentrated Wastewater Recycling and Regeneration in Central Water Treatment Plants and Cost-Benefit Analysis

#### 內容簡介 / Speech Summary

本次報告將以一產學合作計畫為例，介紹以減少中水回收系統不同處理階段產出濃排水為目標，測試不同處理策略包含一級加藥處理、倒極式電透析(electrodialysis reversal, EDR)、或以一級加藥前處理搭配 EDR，尋找最適切入點(如多層過濾器(MMF)、超濾膜系統(UF)、或逆滲透系統(RO)濃排水)，並從成本效益分析角度，評估有效減少目前中水回收濃排水排放量之經濟可行處理技術。EDR節能高效在過去已有研發與實際成效，作為本計畫目標重要評估策略時，在當前減碳節能的必要前提下，如何在正確位置使用適當技術以創造中水廠濃排水回收績效，將是本次報告欲分享之重點。

This presentation will share the findings of an industrial-academic cooperation project that aimed to reduce brine production from water reclamation. The effects of primary treatment, electrodialysis reversal (EDR), and primary treatment coupled with EDR on brine production were investigated. The results were further analyzed by cost-benefit analysis to identify cost-effective and performance-efficient strategies. EDR has been reported to be effective in reducing brine production. With the concerns about its carbon emissions and energy consumption, the presentation will talk about that influences the performance of this treatment strategy, such as location and key operational factors. The concepts and observations presented in this study are expected to be applicable to a wide range of circumstances that share similar challenges and concerns.



SPEAKER / 講師姓名

## 林正雄 / Dr. Zhengxion Lin

雄材大智材料科技股份有限公司 總經理  
General Manager  
Strong and Wise Material Tech Company

### 講師經歷 / *Speaker Experience*

- 不務正業的生物醫學博士 從醫學到環保的跨界之旅
- 清華大學碩士
- 國防醫學院 博士 發表一流 神經科學期刊
- 中研院院聘博士後研究員 發表世界一流抗癌期刊(ONCOGENE)
- 慈濟環保志工
- 大愛感恩科技研發主管 多項發明 改質PET成吸水冰涼, 燒燙傷壓力衣, PET拉鍊頭
- 雄材大智創辦人

### 廢棄紡織品回收再製可能性 Possibilities of Waste Fabrics Recycling

#### 內容簡介 / *Speech Summary*

雄材大智自行研發台灣首創手持式衣物分選器, 透過光學投射廢布在比對衣物指紋庫可隨時隨地、快速準確進行廢布分類。依照材質推動多元再利用方案, 成功打造了「織品到織品」封閉循環供應鏈, 亦建構「織品到塑膠」跨業循環新路徑、創建「織品到建材」跨域循環新模式。

We could recycle waste fabrics and use self-developed AI fabric identification system to analyze and classify into R-PET recyclable plastic particles and crushed modified extruded green board made of EF wood. R-PET plastic particles can be recycled into various daily necessities, zippers, buckles, etc., while EF wood green boards can be re made into flooring, furniture, fences, exterior walls and other extended applications.



# 金屬中心氫能論壇

11/24 10:00-12:00

創新舞台  
Stage Innovation

## Hydrogen Energy Forum MIRDC



林志隆

金屬中心 副執行長



許正翰

聯華林德 總監



高鴻鈞

德國萊因 總經理



蕭逢祥

亞氫動力 總經理



黃映雪

Zwick/Roell公司 經理

| 時間 / Time   | 講題 / Topic   | 講者 / Speaker  |
|-------------|--|---|
| 10:00-10:20 | 報到<br>Registration   | 全體與會貴賓<br>Transcene Corporation   |
| 10:20-10:35 | 金屬中心長官致詞 & 合影留念<br>Keynote address by MIRDC CEO+ Group Photo   | 金屬中心長官<br>Chief Executive Officer<br>MIRDC, Metal Industries R&D Center |
| 10:35-10:50 | 氫能科技發展趨勢與金屬中心技術能量分享<br>Hydrogen Technology Development Trends and Technology Insights from MIRDC               | 金屬中心-林志隆副執行長<br>David Lin<br>CEO, MIRDC                                 |
| 10:50-11:05 | 氫氣生產與加氫佈建規劃<br>Hydrogen Production and Hydrogenation Infrastructure Planning                                   | 聯華林德-許正翰總監<br>Han Hsu<br>Director General, Linde LienHwa Group          |
| 11:05-11:20 | 工業氫能產業鏈安全管理發展策略<br>Development Strategy for Industrial Hydrogen Energy Industry Supply Chain Safety Management | 德國萊因-高鴻鈞總經理<br>Andrew Kao<br>General Manager, TUV Rheinland Taiwan      |
| 11:20-11:35 | 氫能發電應用與展望<br>Hydrogen Power Generation Applications and Prospects  | 亞氫動力-蕭逢祥 總經理<br>Rick Hsiao<br>GM, Asia Hydrogen Energy Corp.            |
| 11:35-11:50 | 氫能科技設備與測試系統<br>Hydrogen Technology Equipment and Testing Systems   | Zwick Roell - 黃映雪經理<br>Emily Huang<br>Manager, Zwick Roell Group        |
| 11:50-11:55 | 交流討論 & 結束賦歸  |   |

# 誠研創新 | KOIN智高點

## 數位學生×綠色科技產業化論壇

時間：2023年11月24日 下午 1:00 - 4:00 (入場報到 1:00-1:30)

地點：創新舞台@高雄展覽館

展會名稱：TASS 2023 亞洲永續供應+循環經濟會展

| 項次 | 時間          | 議題   | 講者   |
|----|-------------|--|--|
| 1  | 13:30-13:32 | 開場及貴賓/講者介紹   |  |
| 2  | 13:32-13:45 | 貴賓致詞與合影儀式(致詞貴賓與講員大合影)                                    | 高雄市政府經濟發展局 陳怡良 主任秘書<br>鑫蘊林科技股份有限公司 謝源寶 董事長 |
| 3  | 13:45-13:55 | 【開場簡報】<br>創新無限,永續無價  <br>數位學生加值綠色經濟與產業創新永續               | 誠研創新股份有限公司 總經理<br>KO-IN智高點數位學生實驗室 主任 鍾金峯   |
| 4  | 13:55-14:40 | 以AI之名,為3D而生  <br>xModel Designer數位建廠解決方案<br>產品發表暨早期使用者分享 | 萃思科技股份有限公司 劉其昌 營運長<br>及 使用者代表              |
| 5  | 14:40-15:00 | 以終為始,超越淨零  <br>鋰電池綠色回收技術平台及其商業模式                         | 競零再生科技股份有限公司<br>何麗貞 總經理                    |
| 6  | 15:00-15:20 | 疫苗遠傳,愛更圓滿  <br>智慧疫苗冷鏈平台及其商業模式                            | 金祐國際股份有限公司<br>吳清吉 總經理                      |
| 7  | 15:20-15:40 | 從工業自動化,到產業智慧化  <br>數位化驅動製造永續                             | 台灣洛克威爾國際股份有限公司<br>王展帆 總監                   |
| 8  | 15:40-15:55 | 座談交流 Q&A   | 全體講師                                       |
| 9  | 15:55-16:00 | 緣來就是你   現場抽獎與頒獎活動  |  |

# 3 展商名單及介紹

## Exhibitors Information

參展商名單 Exhibitors List

展商介紹 Exhibitor Information



TASS  
2023

亞洲永續供應+循環經濟會展  
Sustainable Taiwan Expo

## 機構與組織 Institutions

攤位編號 Booth No.

|   |       |
|---|-------|
| 海洋委員會海洋保育署-海廢再生聯盟<br>Marine Debris Recycling Coalition                          | S1101 |
| 中鋼公司<br>CSC   | S1102 |
| 台灣電力股份有限公司興達發電廠<br>Taiwan Power Company Hsinta Power                            | S1103 |
| 台灣中油股份有限公司<br>CPC Corporation, Taiwan   | S1106 |
| 經濟部循環經濟推動辦公室<br>CIRCULAR ECONOMY PROMOTION OFFICE, MINISTRY OF ECONOMIC AFFAIRS | S1112 |
| 國立高雄科技大學<br>National Kaohsiung University of Science and Technology.(NKUST)     | S1120 |
| French Chamber Taiwan<br>FRANCE-TAIWAN CHAMBER OF COMMERCE AND INDUSTRY         | S1127 |
| 台灣自來水公司<br>Taiwan Water Corporation   | S1201 |
| 國家發展委員會<br>National Development Council   | S1202 |
| 電動巴士整車產業自主開發能力提升計畫<br>Promotion Project of Localized Electric Bus Industry      | S1203 |
| 交通部中央氣象署<br>Central Weather Administration                                      | S1204 |
| 環境部 資源循環署<br>Resource Circulation Administration, Ministry of Environment       | S1206 |
| 日月光半導體製造(股)<br>ASE Inc. Kaohsiung   | S1220 |
| 農業部<br>Ministry of Agriculture  | S1302 |
| 國科會淨零科技推動小組<br>NATIONAL SCIENCE AND TECHNOLOGY COUNCIL                          | S1303 |
| 金屬工業研究發展中心<br>Metal Industries Research & Devel                                 | S1312 |
| 地熱發電單一服務窗口<br>The Single Service Window for Taiwan Geothermal Power             | S1320 |

金屬工業研究發展中心(氫能專區)  
Metal Industries Research & Devel (Hydrogenic Energy) S1404

### 資源循環專區 Resource Circulation

攤位編號 Booth No.

成信實業股份有限公司  
Transcene Corporation S1232

南寶樹脂化學工廠股份有限公司  
NAN PAO RESINS CHEMICAL CO., LTD. S1232

國際貿易股份有限公司  
KUO CHI TRADING CO., LTD. S1232

德春股份有限公司  
Auspring Co., Ltd. S1232

大南方科研產業化平台  
GLORIA 2.0 SOUTH S1239

宏遠興業股份有限公司  
Everest Textile Co., Ltd. S1420

台灣三資科技股份有限公司  
Taiwan 3R Technology Co., Ltd. S2204

忠興行股份有限公司  
Chosense Group S1128

鉅田潔淨技術股份有限公司  
JU TIAN CLEANTECH CO., LTD. S2303

### 永續城市專區 Sustainable City

攤位編號 Booth No.

French Tech Taiwan S1131

Paul Wurth international s.a. taiwan branch S1132

玩艸植造股份有限公司  
WONDER GREENER CO., LTD. S1135

台灣智庫智策顧問有限公司  
Taiwan Think Tank Smart Policy (TGSA) S1136

誠研創新股份有限公司  
LEGEND INNOVATION INC. S1138

叡揚資訊股份有限公司  
Galaxy Software Services S1231



|   |  |       |
|---|--|-------|
| 威煦軟體開發有限公司<br>Wishing Software Development Co., LTD.                |  | S1235 |
| 友特濃縮顧問有限公司<br>YOUWAN CONCENTRATE CONSULTANTS Co., Ltd               |  | S1237 |
| 可能創意 (西爾法國際有限公司)<br>SILVA INTERNATIONAL CO., LTD.                   |  | S2106 |
| 高柏科技股份有限公司<br>T-GLOBALTECHNOLOGYCO., LTD.                           |  | S2107 |
| 護全禪心國際股份有限公司<br>Huquan chanxin International conglomerate Co., Ltd. | 50淨零解方聯盟<br>FSPN-SONZA                     | S2108 |
| 笙榮紙業股份有限公司<br>PULP PAPER ASIA CO., LTD.                             | 50淨零解方聯盟<br>FSPN-SONZA                     | S2108 |
| 二方企業股份有限公司<br>DEWTEK DRYING SYSTEMS CO., LTD.                       | 50淨零解方聯盟<br>FSPN-SONZA                     | S2108 |
| 舒果蕾有限公司<br>SHU-GUO-LEI CO., LTD.                                    | 50淨零解方聯盟<br>FSPN-SONZA                     | S2108 |
| 創意量子科技有限公司<br>Creativity Technology Co.                             | 50淨零解方聯盟<br>FSPN-SONZA                     | S2108 |
| 亮易科技有限公司<br>LIANG YI TRADE CO., LTD.                                | 50淨零解方聯盟<br>FSPN-SONZA                     | S2108 |
| 程發工業股份有限公司<br>GREAT CYCLE INDUSTRIAL CO., LTD.                      | 50淨零解方聯盟<br>FSPN-SONZA                     | S2108 |
| 日益和股份有限公司<br>Sun Surface Technology Co. Ltd.                        |  | S2210 |
| BSI英國標準協會<br>BSI Taiwan   |  | S2310 |
| <b>能源專區 Energy</b>  |  |       |
| 攤位編號 Booth No.  |  |       |
| 大城技研有限公司<br>CityTech INC.   |  | S1133 |
| 大亞電線電纜股份有限公司<br>TA YA ELECTRIC WIRE&CABLE CO., LTD.                 |  | S1326 |
| 殷聖節能泵浦股份有限公司<br>INSHENG PUMP ENERGY-SOLUTION CO., LTD.              | 節能創能減碳聯盟<br>ESG CARBON REDUCTION COALITION | S1332 |
| 源達機電科技有限公司<br>KIMAX ELECTROMECHANICAL INC.                          | 節能創能減碳聯盟<br>ESG CARBON REDUCTION COALITION | S1332 |

|   |  |       |
|---|--|-------|
| 太丞股份有限公司<br>Techgo Industrial Co., Ltd.                         | 節能創能減碳聯盟<br>ESG CARBON REDUCTION COALITION | S1332 |
| 能揚興業有限公司<br>Super Air Compressors technology Co., Ltd.          | 節能創能減碳聯盟<br>ESG CARBON REDUCTION COALITION | S1332 |
| 恩泉照明科技有限公司<br>Glory Spring Lighting Technology Coporation       | 節能創能減碳聯盟<br>ESG CARBON REDUCTION COALITION | S1332 |
| 思納捷科技股份有限公司<br>InSynerger technology Co., Ltd.                  | 節能創能減碳聯盟<br>ESG CARBON REDUCTION COALITION | S1332 |
| 森泉科技有限公司<br>SEN CHYUAN TECHNOLOGY INC.                          | 節能創能減碳聯盟<br>ESG CARBON REDUCTION COALITION | S1332 |
| 詮茂能源科技股份有限公司<br>CHUAN MAO ENERGY CO., LTD.                      | 節能創能減碳聯盟<br>ESG CARBON REDUCTION COALITION | S1332 |
| 亞氫動力股份有限公司<br>Asia Hydrogen Energy Corporation                  |  | S1428 |
| 大葉光電股份有限公司<br>TAI-YEH OPTRONICS CO., LTD.                       |  | S1434 |
| 加雲聯網股份有限公司<br>Intelligent Cloud Plus                            |  | S1518 |
| Riviera Maritime Media Singapore Pte Ltd.                       |  | S1528 |
| 愛德華先進科技股份有限公司<br>EDWARDS TECHNOLOGIES LTD.                      |  | S1530 |
| 日商極貿股份有限公司台北分公司<br>KYOKUTO BOEKI KAISHA, LIMITED, TAIPEI BRANCH |  | S1533 |
| 匠普系統工程股份有限公司<br>Kinetic Systems Engineering & Services, Inc.    |  | S1535 |
| 日成科技股份有限公司<br>OPTIMIZATION SOLUTIONS ASIA ENGINEERING CO., LTD. |  | S2409 |

### 污染防治專區 Pollution Prevention

攤位編號 Booth No.

|  |   |       |
|--|---|-------|
| 台灣音維舒環測股份有限公司<br>Envirosuite Taiwan Limited                                |   | S1534 |
| 頤澤國際股份有限公司<br>Matrix Engineering & Trading Co., Ltd.                       |   | S1536 |
| 社團法人臺灣能源與環境發展協會<br>Taiwan Energy and Environmental Development Association | 地球復原行動聯盟<br>Earth Restoration Action Alliance | S2302 |

弘惠國際水能源科技股份有限公司  
Hung Hui International Water Energy Co., Ltd. 地球復原行動聯盟  
Earth Restoration Action Alliance S2302

威浦斯科技股份有限公司  
WEPLUS HIGH-TECH CORPORATION 地球復原行動聯盟  
Earth Restoration Action Alliance S2302

建佳科技股份有限公司  
STREBER-TECH CO., LTD. 地球復原行動聯盟  
Earth Restoration Action Alliance S2302

海碁科技股份有限公司  
Higee Tech Co., Ltd. 地球復原行動聯盟  
Earth Restoration Action Alliance S2302

亞騰國際開發有限公司  
A Ten International Development Co., Ltd. 地球復原行動聯盟  
Earth Restoration Action Alliance S2302

旋天環保設備製造有限公司  
Shiftrewater Environmental Technology Business Co., Ltd. 地球復原行動聯盟  
Earth Restoration Action Alliance S2302

## 水資源專區 Water

攤位編號 Booth No.

禾益生物科技股份有限公司  
Heryee Biotech Co., Ltd. S1137

承鴻工業股份有限公司  
ExtreMem, Inc. S1139

元業綠能驗證有限公司  
Yuan Yeh Green Energy Verification Co., Ltd. S2101

大成過濾材料有限公司  
DACHENG FILTER MATERIALS CO., LTD. S2102

長宥工業股份有限公司  
EVER SLOT INDUSTRY CO., LTD. S2103

# 海廢再生聯盟

Marine Debris Recycling Coalition



## 海洋委員會海洋保育署-海廢再生聯盟 Marine Debris Recycling Coalition

機構與組織  
Institutions

攤位編號 | **S1101**  
Booth No.

為推動海洋永續與海洋環境保護，解決日益嚴重的海廢污染問題，海洋委員會海洋保育署（簡稱「海保署」）積極展開各項海廢回收及再利用的行動，為擴大海廢再利用的業者參與共同合作，遂推動成立「海廢再生聯盟」。

「海廢再生聯盟」於110年10月21日正式成立，透過公私協力（public-private partnership）的夥伴關係，串連回收/再利用業者、海廢材料供應業者、品牌業者和金融投資業者...等產業上下游，建構海廢資源循環鏈，積極發展新的技術應用和商業模式，讓海廢變黃金，創造環境和經濟的永續共好。

「海廢再生聯盟」成立至今，已號召不少業者參與合作，並陸續規劃舉辦展覽活動、研討會、參訪見學、技術課程...等，並積極促進聯盟成員互動合作，共同解決海廢問題並活絡海廢商機，展現台灣海廢回收再利用的政策推動及具體成果，並接軌國際海廢治理相關單位，務實參與國際海廢推動工作，善盡地球公民責任。

To promote ocean sustainability and protect the marine environment, and to address the increasingly severe issue of marine waste pollution, the Ocean Conservation Administration of the Ocean Affairs Council has been actively engaged in various actions related to the recycling and reuse of marine waste. In order to expand the participation and collaboration of businesses involved in marine waste reuse, the establishment of the "Marine Debris Recycling Coalition" was initiated.

The "Marine Debris Recycling Coalition" was officially established on October 21, 2021. Through public-private partnerships, it connects recycling/reuse operators, marine waste material suppliers, brand owners, and financial investors, among other industry stakeholders, to build a circular economy for marine waste resources. The coalition actively develops new technological applications and business models, transforming marine waste into valuable resources and promoting the sustainable coexistence of the environment and the economy.

Since its establishment, the "Marine Debris Recycling Coalition" has attracted the participation of numerous businesses and has organized various activities such as exhibitions, seminars, visits and learning opportunities, technical courses, etc. It actively promotes interaction and cooperation among coalition members to collectively address marine waste issues, invigorate marine waste business opportunities, demonstrate the policy initiatives and concrete achievements of marine waste recycling and reuse in Taiwan, and engage with international entities involved in marine waste management. The coalition aims to actively participate in international efforts to promote marine waste reduction and recycling, fulfilling its responsibilities as global citizens.

連結網址 | <https://mdinfo.oca.gov.tw/mdrc/>



中鋁公司

中鋼公司  
CSC

機構與組織  
Institutions

攤位編號 | **S1102**  
Booth No.

中鋼是一家勇於創新、執行力強的公司，以「智慧創新、綠能減碳、價值共創，成為永續成長的卓越企業」為新願景，積極落實「團隊、企業、踏實、求新」之中鋼精神，以及「增進社會福祉、落實實際績效、發揮群體力量、講求人性管理」之中鋼經營理念，除持續深耕鋼鐵本業外，亦致力協助下游相關產業升級，提升整體產業國際競爭力。

CSC is very active in innovation and has strong capability to put the innovations into practice. The Company's new vision is "We aspire to be a sustainable growth enterprise that distinguishes itself through a firm commitment to smart innovation, green energy, carbon reduction, and value co-creation." CSC actively puts into practice its corporate value of "teamwork, entrepreneurial approach, down-to-earthness and pursuit of innovation", as well as its operational beliefs of "promotion of social well-being, result orientation, implementation of teamwork, and emphasis on employees' self-realization." CSC keeps deepening the roots for its core business in steel, and is devoted to integrate the related downstream industries to foster healthy development and international competitiveness of Taiwan's steel related industry.

### 鋼板產品\_PLATE

主要用途為建築結構、造船、橋樑、油氣管路、機械構造、壓力容器及耐候耐蝕用鋼板。

CSC's plates are used in manufacturing construction structures, shipbuilding, bridges, line pipes, machine structures, pressure vessels, and plate products with atmospheric-resistance.

### 條鋼線材產品\_STEELBAR And WIREROD

條鋼及線材產品之加工用途，可分為一般結構、機械構造、冷打加工、熱鍛加工、硬鋼線、及焊條心線等。

By the application of different processing techniques, steel bars and wire rods can be used for manufacturing general structures, machine structures, hard wires, and weld electrodes, and so on..

連結網址 | <https://www.csc.com.tw/>

機構與組織  
Institutions

## 台灣電力股份有限公司興達發電廠 Taiwan Power Company Hsinta Power Plant

攤位編號 | **S1103**  
Booth No.

興達發電廠係民國60年代為配合南部工業之電力需求，裝設有燃煤及燃氣共9部機組之火力電廠，未來於第二廠區新建3部燃氣機組預計於2024年陸續商轉。

興達電廠肩負南部經濟科技的發電重責大任，也是全台唯一廠區內有濕地及野鳥棲息的生態環保電廠，稱之「飛鳥電廠」。本廠積極實踐環境永續理念，保留廠區土地做為濕地保護區，擁有當地豐富的紅樹林濕地生態，以及保有原烏樹林製鹽株式會社古蹟，並為此成立生態研究團隊，持續以科學方式進行保育工作。

Hsinta Power Plant is a thermal power plant that was built in the 1970s to meet the power demand of southern industries. It consists of a total of 9 coal-fired (steam turbine) and gas-fired (combined cycle) units. In the future, 3 new gas-fired units will be built in the second plant area and expected to be operational by 2024.

Hsinta Power Plant shoulders the important responsibility of power generation in the Southern in the economic and technological aspect, and is also the only eco-friendly power plant in Taiwan with wetlands and wild bird inhabited, called the "Birds-friendly Power Plant". The plant actively practices the concept of environmental sustainability. For instance, it reserves as a wetland protection zone with local mangrove ecology and preserves the historic sites of the original Wushulin Salt Manufacturing Co., Ltd in the area. For this purpose, we have established an ecological research team and continue to carry out conservation work in a scientific way.

連結網址 | <http://www.taipower.com.tw>



台灣中油股份有限公司

## 台灣中油股份有限公司 CPC Corporation, Taiwan

機構與組織  
Institutions

攤位編號 | **S1106**  
Booth No.

研究發展為台灣中油公司技術創新及永續經營之重要憑藉，於苗栗設立探採研究所、嘉義設立煉製研究所及高雄設立綠能科技研究所，負責不同領域之研發工作。

探採研究所主要工作著眼於國內外地質和地層油氣藏潛能評估、探勘和鑽採技術、環境監測、地熱資源開發與碳封存等研究；煉製研究所主導高值石化品開發、循環經濟實踐、污染防治、煉製結構改善及解決現場生產瓶頸；綠能科技研究所發展生質燃料、再生能源及綠色材料相關技術，並負責研發試量產。

Research and Development (R&D) is a core value for CPC's technological innovation and corporate sustainability. There are three major institutes responsible for R&D in their respective areas: the Exploration & Development Research Institute (EDRI) in Miaoli; the Refining & Manufacturing Research Institute (RMRI) in Chiayi; and the Green Technology Research Institute (GTRI) in Kaohsiung. The EDRI primarily evaluates oil and gas reserves by analyzing domestic and foreign geological/ stratigraphic data, technological developments in exploration, drilling and extraction methodology, environmental monitoring, geothermal resource development, and carbon sequestration. The RMRI plays a leading role in the R&D of high-value-added petrochemicals, promoting the circular economy, controlling pollution, improving refinery structure or configuration, and resolving on-site production problems. The GTRI is dedicated to R&D on biofuels, renewable energy, and green materials, and is responsible for pilot production on advanced projects.



### 碳捕捉、再利用及封存互動展示模型

#### Carbon Capture, Utilization and Storage (CCUS) Interactive model

碳捕捉、再利用及封存互動展示模型為以互動式多媒體展示平台及觸控式Q&A螢幕向民眾介紹碳捕捉、再利用及封存技術(CCUS)。平台搭載實體地貌模型與顯示器，分別用來呈現光雕投影與多媒體動畫，民眾可依所選擇主題進行互動式呈現。期望能透過適當宣傳提高公眾對此技術之認知與接受度。

CCUS model introduces carbon capture, utilization and storage technology through an interactive multimedia display platform and touch Q&A screen.



### 加氫示範站\_Hydrogen Fueling Station

台灣中油示範站主要設施可分為三區(氫氣供應區、可移動式加氫站設備主體區、加氫泵島區)，其中氫氣供應區規畫250公斤氫氣，加氫泵島區加氫槍35 MPa、70 MPa各一支，可服務汽車、巴士、卡車、貨櫃車等各種氫能車輛。

CCUS model introduces carbon capture, utilization and storage technology through an interactive multimedia display platform and touch Q&A screen.

連結網址 | <https://www.cpc.com.tw/>



國立高雄科技大學  
National Kaohsiung University of  
Science and Technology

產學營運處  
Office of Industry-Academia Cooperation

機構與組織  
Institutions

## 國立高雄科技大學-產學營運處

National Kaohsiung University of Science and Technology  
Office of Industry-Academia Cooperation

攤位編號 | S1120  
Booth No.

產學運籌中心提供快速便捷、專業諮詢服務，統籌產學合作相關業務，包含案源開發、提案、技術媒合、提案、議價與專案管理等業務，並強化國際產學合作與鏈結服務，建立海外產學服務據點及簽定國際產學合作案。除媒合本校智慧財產及技術研究成果與產業合作，進行商品化、衍生新創企業輔導，也結合地方公協會共同發展產學共構課程及培育優質專業技術人才，並推動與產業及學校協作實務教學與實作學習，鏈結師生與在地產業結合，以推動在地產業經濟的發展及創造高附加價值效益，建立策略聯盟並打造產學一條龍服務。

合作諮詢窗口：產學營運處-產學運籌中心 王曉珍 副理

連絡電話：07-601-1000 分機31476

電子信箱：jasmine985@nkust.edu.tw

The Industry-Academia Collaboration and Operations Center (IACOC) provides fast, convenient, and professional advisory services. It coordinates various aspects of industry-academia cooperation, including sourcing projects, proposal development, technology matching, contract signing, negotiation, and project management. It also strengthens international industry-academia collaboration and linkages by establishing overseas industry-academia service points and signing international industry-academia cooperation agreements. In addition to matching our university's intellectual property and research results with industry collaborations, we promote commercialization and provide guidance for the development of new startup enterprises. We collaborate with local public associations to develop industry-academia co-constructed courses and nurture high-quality professional and technical talents. We also promote practical teaching and experiential learning through collaboration with industries and schools, linking students and teachers with local industries to drive local economic development and create high-value benefits. We establish strategic alliances and create a seamless industry-academia service ecosystem.

### 生物高分子純生物分解邁向零塑新世界

本技術使用基因剔除特定菌株，更適合高細胞密度酸酵生產。

生產PHA產品單組成為P(3HB-co-33.7mol%3HV-co-2.1mol%4HV)的三元共物，是一兼具抗老化與富延展性質的PHA材料，延展性可達630%，機械性質與石化塑膠高密度聚乙(HDPE)類似，並且於室溫儲放三年後依然保有相同的延展性。

### 鈦合金加工廢料循環再製造高值粉體

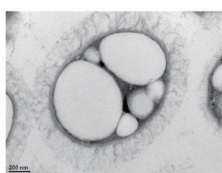
機械加工後不規則形廢料以研磨方式將廢料細化成所需的粒徑，再以等離子球化技術，在極高的溫度下，以表面張力將不規則形狀廢料變成緻密球形粉體。可供積層製造產業應用在多孔醫材、交換器、燃油噴嘴等。相較於傳統氣霧法粉體製程，無氣孔粉體缺陷，原材料的成本僅有10%，粒徑可控制，解決粉末成本過高與廢鈦處理的問題。



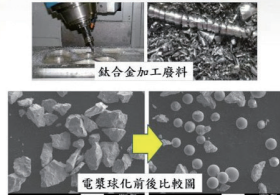
▲模擬生物分解環境\_2個月後



▲模擬生物分解環境\_1個月



▲聚乳酸-聚乙醇酸



電漿球化前後比較圖



連結網址 | <https://ord.nkust.edu.tw/>





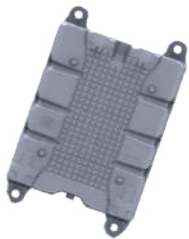


## 夏爾特拉 Ciel et Terre

機構與組織  
Institutions

攤位編號 | **S1127**  
Booth No.

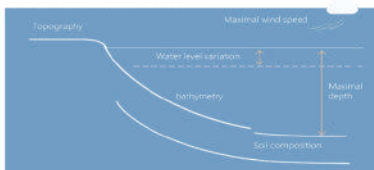
- Ciel & Terre成立於2006年，總部位於法國里爾(Lille)，起先專門研究屋頂及地面型太陽能發電系統。
  - 2011年，我們走上創新道路，將太陽能與水相結合正式推出浮動型太陽能發電系統—Hydrelio®，從此成為水面型太陽能專家及市場的領航者。
  - 目前已累積近15年的水面型太陽能經驗，實績遍佈5大洲。統計至2022年，包含在建中裝置，有超過1.6GWp的浮動式太陽能系統使用Hydrelio®技術。
  - 夏爾特拉看中台灣水面型太陽能發展潛力，於2016年年底進駐台南設立台灣分公司，為台灣綠電提供更即時完善的服務，開啟水面型太陽能的綠電未來。
- Ciel & Terre was founded in 2006 and headquartered in Lille, France. Initially specializing in the integration of rooftop and ground-mounted PV systems.
  - The R&D team developed the patented technology HYDRELIO® in 2011, pioneering a floating system for solar plants to be installed on water, on various types of reservoirs.
  - Today, 230 floating PV plants all over the world, equivalent to over 700 MWp, utilize Hydrelio® technology and this number is expected to reach more than 1.2 GW in 2022.
  - Ciel & Terre set up a Taiwan branch in Tainan at the end of 2016 to provide more immediate and complete services for Taiwan's green power and open up the future of floating solar energy.



### Hydrelio® aiR

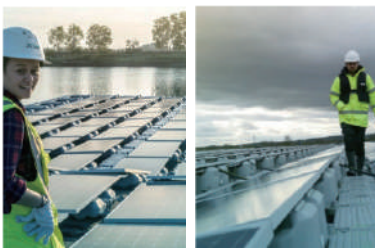
- 方便又迅速安裝
- 自然冷卻效果，提高模組發電量
- 躉購率高於地面型
- 100%可回收
- 法國設計，台灣生產

產品影片  
Video



- Easy and quick mounting
- Increase power production due to natural cooling effect of water
- Higher FIT than ground-mounted
- 100% recyclable material
- Designed in France, made in Taiwan

產品影片  
Video



### 太陽能電廠維運服務\_Operation & Maintenance Services

水面型是相對新的太陽能技術，維運不能像做地面型一樣。如定期查驗、故障分析...，我們提供適應當地環境的專業維運服務。

With a newer technology like floating solar, O&M services can not be practiced like ground-mounted types. Inspection visits, failure analysis, we provide professional O&M adapting to local sites.

連結網址 | <https://www.ciel-et-terre.net/>



機構與組織  
Institutions

## 法商東方匯理銀行

CRÉDIT AGRICOLE CORPORATE & INVESTMENT BANK

攤位編號 | **S1127**  
Booth No.

東方匯理銀行是臺灣最活躍的外商銀行之一，提供廣泛的企業和投資銀行產品和服務、固定收益和結構性融資解決方案，以滿足客戶的銀行需求。東方匯理銀行將綠色和永續發展融資列為其最優先事項。

為了加強我們對社會的責任並同時支持客戶的能源轉型專案，東方匯理銀行積極於將ESG準則推廣至我們的產品與專案中進而使ESG產品主流化。該承諾也意味著我們一直在尋找適合現今社會挑戰並廣泛考慮與東方匯理銀行融資相關的環境和社會影響的提案。東方匯理銀行目前已加入了「淨零銀行聯盟」並著手規劃了減碳軌跡以達成淨零碳排目標。

繼2021年5月在全球永續發展融資市場上發行首檔加入「互惠共榮」設計的債券和2022年8月發行的創新「互惠共榮」綠色債券後，東方匯理銀行台北分行於2023年4月又再次發行了一檔5年期、總金額共1億新臺幣的「互惠共榮」綠色債券。本次發行的債券是由債券投資人、發行財務顧問，以及發行人為共同挹注促進永續環境以及社會責任有關的2個專案：Plastic Odyssey的海洋塑料污染改善事業；UNICEF協助並保護處於險境的烏克蘭兒童及家庭的安全。東方匯理銀行台北分行也同時積極投入各種社會公益活動，每年都會定期舉辦各類公益活動，並定期向各類慈善機構機構捐款援助。

2023年3月，東方匯理銀行台北分行共37位員工與其他法國工商會的會員一同參與了由在地NPO「一樹一山」規劃的植樹活動。我們親自種下了100棵樹苗，同時捐贈了145棵樹苗給五峰鄉的原住民部落。而我們所選擇的樹苗更是台灣本土種的流蘇樹，其兼具了強韌的生命力與二氧化碳吸收能力。

2023年4月，超過50位的同仁參與了法國工商會為期4週CSR Sports Challenge以支持法國工商會的合作夥伴：The Seacleaners在維護海洋環境上的努力。

Crédit Agricole CIB is one of the most active foreign banks in Taiwan offering a wide range of corporate and investment banking products and services, fixed income and structured finance solutions to suit the banking needs of our clients. Crédit Agricole CIB puts green and sustainable finance at the centre of its priorities.

To keep strengthening our social commitments and to support our clients in their energy transition projects, Crédit Agricole CIB is actively involved in promoting ESG standards across its products and solution suite into becoming our “mainstream” offers. This commitment also means that we are constantly searching for an offer that is adapted to new social challenges and that takes extensively into account the environmental and social impacts linked to our financings. Crédit Agricole CIB has joined the net zero banking alliance with trajectories in place to meet targets.

Following the issuance of first global solidarity-based bond in May 2021, reiterated by a second issuance in August 2022, Crédit Agricole CIB Taipei branch has issued another solidarity-based green bond in April 2023. The 5-year TWD1 billion bond offering was another solidarity-based bond where investors, joint-lead managers and the issuer teamed up to financially contribute to two environmentally and socially-friendly projects: Plastic Odyssey in support of its effort of reducing plastic pollution in the ocean and UNICEF in support of its effort in helping children and families in desperate need of safety, stability and protection in Ukraine. Crédit Agricole CIB also actively participate in various CSR activities, including regularly organized charity activities and donations to charities.

In March 2023, Credit Agricole CIB Taipei branch joined a tree planting event organized by a local non-profit organization “One Tree One Mountain”. 37 of our staff along with other members of the CCIFT, the French Chamber participated in planting 100 trees and donated 145 trees to the locals of Wufeng Village, primarily populated with Taiwanese indigenous aka Formosan people. The trees selected are Chinese Fringe trees 流蘇樹 which are endemic to Taiwan and are 2-meter high grown to increase their survival rate and CO2 absorption.

In April 2023, more than 50 colleagues participated in the four-week CCIFT CSR Sports Challenge, which aims to support the French Chamber’s partner The Seacleaners in terms of improving the marine environment.

連結網址 | [www.ca-cib.com](http://www.ca-cib.com)





## 達飛通運有限公司

### CMA CGM (TAIWAN) LTD.

機構與組織  
Institutions

攤位編號 | **S1127**  
Booth No.

#### 有關於CMA CGM

在RODOLPHE SAADE先生的帶領下，CMA CGM集團是航運和物流領域的全球領導者。

其566艘船服務於全球五大洲的420多個港口。2020年，他們運送了近2100萬個TEU（20呎）貨櫃。與全球領先的物流服務供應商CEVA Logistics合作，CMA CGM每年處理40萬噸空運貨物和280萬噸內陸貨物。

CMA CGM不斷創新，為客戶提供新的海運、內陸運輸和物流解決方案。

集團通過其755個辦事處和750個倉儲組成的網路，業務遍及各大洲和160個國家，在全球擁有超過110,000名員工，其中2,400人位於其總部所在地馬賽。

CMA CGM集團一直專注於永續性經營理念，為地球、人類和互惠貿易責任進行推動，並致力於到2050年實現碳中和。

#### About CMA CGM

Led by MR. RODOLPHE SAADE, the CMA CGM Group is a world leader in shipping and logistics.

Its 566 vessels serve more than 420 ports around the world, on all five continents. In 2020, they transported nearly 21 million TEU (twenty-foot equivalent units) containers. with CEVA Logistics, a world leader in logistics services, CMA CGM handles 400,000 tons of airfreights and 2.8 million tons of inland freight every year.

CMA CGM is constantly innovating to offer customers new maritime, inland and logistics solutions.

Present on every continent and in 160 countries through its network of 755 offices and 750 warehouses, the Group employs more than 110,000 people worldwide, of which 2,400 are in Marseille where its head office is located.

The CMA CGM Group has stayed focused on sustainability development as we Act for Planet, People and Responsible Trade, and is committed to achieving carbon neutrality by 2050.



#### ACT with CMA CGM+ : Mix Biofuel

ACT with CMA CGM+ is a range of transport solutions that help accelerate your energy transition. With Mix Biofuel, reduce your greenhouse gas emissions by 10% thanks to a second-generation biofuel.

產品影片  
Video



#### ACT with CMA CGM+ : Mix Biomethane

ACT with CMA CGM+ is a range of transport solutions that help accelerate your energy transition. With Mix Biomethane, reduce carbon emissions by 25% and create a positive impact on the environment.

產品影片  
Video



連結網址 | [www.cma-cgm.com](http://www.cma-cgm.com)





## 台北市中法工商促進會 FRENCH CHAMBER TAIWAN

機構與組織  
Institutions

攤位編號 | **S1127**  
Booth No.

台北市中法工商促進會(法國工商會)為一非營利組織,隸屬於全球法國工商會(CCIFI)成員之一。超過30年來,法國工商會已成為在台重要國際商業平台之一,目前全球共有119間分會,遍布於94個國家,聚集超過37,000名企業會員。法國工商會在台擁有超過180名企業會員,旨於促進台灣與法國間商務交流合作,協助拓展雙邊業務與企業網絡,提供國際貿易、投資諮詢等商業服務。

Created in 1991, the French Chamber is a non-profit organization registered with the Taipei City Department of Social Affairs and belongs to the worldwide network

of French Chambers of Commerce and Industry Overseas (CCI France International), which consists of 124 Chambers in 93 countries and represents more than 35,000 companies.

The main purpose of the Chamber is to develop relations between its members and the Taiwanese businesses community, facilitate and support trade and investment between France and Taiwan, by focusing on efficient networking and a wide range of business services. Members are mostly, but not all, French-invested companies. They represent all industry sectors, ranging from commodity trading to high-end technology and services.

In 2022, the French Chamber Taiwan aims at improving CSR, Charity, environmental and social involvement to its activity in parallel to its core business focus. The organization would like to continue creating bridges between members in order to act together toward meaningful actions and simplify the due diligence process and information gathering. The team wish to be more engaged and bring, at their level, a positive impact to the community in general and to our environment.

連結網址 | <https://www.ccift.org.tw/>



## 台灣自來水股份有限公司 Taiwan Water Corporation

機構與組織  
Institutions

攤位編號 | **S1201**  
Booth No.

台水於1974年正式成立台灣自來水股份有限公司，台水成立初期肩負加速提高全省自來水普及率之重大使命，因此投入大量人力、物力於工程建設，以滿足民生、工業用水「量」之需求為經營重點；而後隨著社會經濟及資訊科技之急速發展，配合業務消長適時調整、規劃及精實組織結構，藉以滿足用戶「量足」、「質優」、「服務好」的要求，達成公司總體經營及永續發展之目標。

Taiwan Water Co., Ltd. was formally established in 1974. In the early days of its establishment, it shouldered the important mission of accelerating the increase in the penetration rate of tap water in Taiwan. Therefore, it invested a lot of manpower and material resources in project construction to meet the "quantity" needs of people's livelihood and industrial water as its business focus; With the rapid development of social economy and information technology, timely adjustments, planning and refinement of organizational structure are required in line with business growth and decline, so as to meet users' requirements of "adequate quantity", "high quality" and "good service", and achieve the company's overall operation and long-term the goal of continued development.

連結網址 | <https://www.water.gov.tw>



## 國家發展委員會 National Development Council

機構與組織  
Institutions

攤位編號 | **S1202**  
Booth No.

國家發展委員會為行政院重要政策規劃機關，擔負國家整體發展之規劃、設計、協調、審議及管考等任務。面對急遽變遷的國內外情勢，國家發展委員會將從國家永續發展資源統籌規劃的視野與高度，協調推動經濟、社會、產業、人力、國土、政府治理等重大政策，開創國家發展新格局。

為呼應國際倡議，接軌淨零趨勢所帶來的挑戰與商機，行政院國家永續發展委員會督導協調國家發展委員會、經濟部、環境部、國科會、交通部及內政部等相關部會，共同發布「臺灣2050淨零排放路徑」，以四大轉型策略及兩大基礎為架構，提出「十二項關鍵戰略」行動方案，以推動我國淨零轉型。

The National Development Council (NDC) acts as the main policy-planning agency of the Executive Yuan, and is responsible for planning, designing, coordinating, reviewing, and evaluating the nation's overall development. The NDC endeavors to open up new horizons for national development in tune with the rapid changes occurring at home and abroad, and acts from the perspective of the overall planning of the sustainable use of resources for national development, as well as coordinating the implementation of major policies for economic, social, industrial, manpower, land and political governance.

In response to international initiatives on "2050 Net-Zero Emissions", as well as the challenges and business opportunities that related to net-zero transition, The Executive Yuan's National Council for Sustainable Development, led National Development Council, Ministry of Economic Affairs, Ministry of Environment, National Science and Technology Council, Ministry of Transportation and Communications, Ministry of the Interior and other central government agencies, announced the "Taiwan's Pathway to Net-Zero Emissions in 2050". On the basis of "four transition strategies" and "two governance foundations", Taiwan kicked off the "12 Key Strategies" action plan to implement Taiwan's net-zero transitions.

連結網址 | <https://www.ndc.gov.tw/>

## 電動巴士整車產業自主開發能力提升計畫 Promotion Project of Localized Electric Bus Industry

機構與組織  
Institutions

攤位編號 | **S1203**  
Booth No.

執行經濟部產發署電動巴士整車產業自主開發能力提升計畫，推動我國電動巴士整車及關鍵零組件技術開發與在地化發展，促進DMIT電動巴士產業效益。



## 交通部中央氣象署 Central Weather Administration

機構與組織  
Institutions

攤位編號 | S1204  
Booth No.

中央氣象署以布建更完整氣象觀測、發展更準確氣象預報、開創更全面氣象服務為施政願景，並透由提升包括海氣象觀測覆蔽率、災害性預警客製服務普及率、定量降雨預報準確率，及氣象測報能力與整體服務效能等具體關鍵行動方案，達到強化氣象觀測與預報技術發展、建置預報作業輔助系統、加速地震測報效能、拓展氣象服務面向、推廣氣象防災教育宣導，以及支援防災減災業務並促進經濟發展的年度施政目標，為健康智慧臺灣提供優質氣象資訊。

The Central Weather Administration's (CWA's) mission is to make thorough meteorological observations, refine meteorological forecasts, and create diversified meteorological services, by increasing both land and sea observation coverage, making customized disaster warning services more widespread, and improving QPF ability, forecast capability and service efficiency, so as to provide quality meteorological services and better fulfill its role in disaster prevention and mitigation and economic development promotion.

### 氣候變遷\_climate change

極端氣候事件對社會造成影響，如何提高各界對於氣候變遷之調適能力、有效運用氣象資訊管理氣候風險以減低災損並創造效益，提升全民福祉之認知與行動，已成為國際因應氣候變遷之重要工作。

Extreme climate events have an impact on society, and improving the ability to adapt to climate change has become an important task in the international response to climate change.

### 綠色能源\_green energy applications

太陽能及風能發電量皆和天氣因素相關，若能在場址選擇、施工及維護善用氣象資訊，可為整體發展帶來更大的效益。

Wind and Solar energy are strongly influenced by weather. We start a program to meet green energy industry application requirements, consequently creating higher economic benefits.



連結網址 | <https://www.cwa.gov.tw/>





## 環境部資源循環署

### Resource Circulation Administration Ministry of Environment

機構與組織  
Institutions

攤位編號 | **S1206**  
Booth No.

立法院於本(2023)年5月9日三讀通過環境部及三級機關(構)相關組織法,總統於5月24日正式公布環境部組織法,環保署升格為環境部,為辦理廢棄物源頭減量、資源回收與循環利用及清除處理業務,特設資源循環署。

以「資源循環零廢棄」為施政主軸,推動綠色設計源頭管理、能資源循環利用、加值化處理廢棄物、暢通循環網絡、創新技術與制度等策略措施,達成資源循環極大化及廢棄物處理極小化目標。

On May 9, 2023, the Legislative Yuan passed the Organization Act of Environmental Ministry, which was officially promulgated by the President on May 24th. The Environmental Protection Administration was elevated to the status of the Environmental Ministry, with responsibilities including waste reduction, resource recycling and utilization, as well as cleanup and disposal operations. As part of this reorganization, the Resource Circulation Administration was established.

With "Resource Recycling and Zero Waste" as the governing principle, strategies and measures such as waste prevention by green design, resource circulation, value-added treatment of waste, well-functioning circulation network, innovative technologies and systems are being promoted. The aim is to achieve maximal resource circularity and minimal waste generation.

連結網址 | <https://www.reca.gov.tw/>



財團法人農業科技研究院

AGRICULTURAL TECHNOLOGY RESEARCH INSTITUTE

## 農業部

### Ministry of Agriculture

機構與組織  
Institutions

攤位編號 | **S1302**  
Booth No.

財團法人農業科技研究院(簡稱農科院)於民國103年由行政院農業委員會(簡稱農委會;現為農業部)全額捐助設置成立,致力推動農業科技產業化、技術商品化、投資事業化與行銷國際化。農科院積極與農委會轄下所屬試驗改良場(所)合作,整合農業技術研發量能、產品量產技術開發、智財保護與布局,以及品牌設計與市場行銷等資源,鏈結上中下游關鍵資源,全力以科技強化我國農業產業競爭力。

本院前身係於民國59年由聯合國協助我國成立之「台灣養豬科學研究所」,民國83年依農委會函示改制為「財團法人台灣養豬科學研究所」、民國90年經農委會同意更名為「財團法人台灣動物科技研究所」,103年為因應農業貿易自由化與國際化之全球社經局勢變動,再經農委會規劃組織架構,遴聘原服務於財團法人台灣動物科技研究所且配合農委會推動農業科技產業化政策,以及執行農業科技研發成果商品化及事業化政策專案辦公室之人員,改制為「財團法人農業科技研究院」,配合政策打造台灣創新農業科技產業,帶動農企業與農民合作開創全民農業。

本院設有動物科技研究所、植物科技研究所、水產科技研究所、產業發展中心及農業政策研究中心等三所兩中心,發展以科技為後盾,市場為導向之優勢農業,以農業科技創新產業價值鏈,發展高價值產業,引領農業持續創新與國際化,開創農業發展新契機。

To strengthen the commercialization and industrialization of agricultural research results, the Council of Agriculture (COA) completed the preparatory works and established Agricultural Technology Research Institute (ATRI) on January 1, 2014.

Under the ATRI there are Animal Technology Research Center, Plant Technology Research Center, Aquatic Technology Research Center, Business Promotion Center, and Agricultural Policy Research Center respectively in charge of related affairs.

ATRI was formed by combining the following agencies:

DPIAB – Development Program of Industrialization for Agricultural Biotechnology

AgriTI – Office for Agricultural Technology Industry

ATIT – Animal Technology Institute Taiwan

COAT – Commercialization Office of Agricultural Technology

Mission and Task

To create a framework for the industrialization of agricultural technology and the development of entrepreneurship, provision of agricultural technology and commercialization/industrialization service to agribusiness, agricultural groups and farmers.

To work collaboratively with academia, other research institutes, and private sectors to develop innovative and useful technologies for commercial production.

To commercialize and industrialize agriculture research results.

To provide assistances to private sectors in strengthening competitiveness and promoting international markets.

To serve as an intermediary platform for policy think-tanks.

To combine all efforts in promoting the common interests in agricultural area. Facilitations of decision-making process to provide solid foundation for agricultural policies in all forms.

連結網址 | <https://www.atri.org.tw/>



## 國科會淨零科技推動小組 NATIONAL SCIENCE AND TECHNOLOGY COUNCIL

機構與組織  
Institutions

攤位編號 | Booth No. | **S1303**

國科會職掌包括國家科學發展、技術研究與應用政策之綜合規劃、協調、審議及資源分配；國家科學發展、技術研究與應用計畫之綜合規劃、協調、審議、資源分配及管理考核；基礎及應用科技研究之推動；重大科技研發計畫及支援學術研究之推動；產業前瞻技術研發與學研新創政策之綜合規劃、協調及推動；科學園區發展之規劃及推動；行政院國家科學技術發展基金之管理；其他有關科學發展、技術研究及應用事項。

The responsibilities of the National Science and Technology Council include the comprehensive planning, coordination, review, resource allocation, management and assessment of national scientific development, technology research and application policies; promotion of basic and applied science and technology research; promotion of major science and technology R&D projects and support for academic research; comprehensive planning, coordination and promotion of industrial forward-looking technology R&D and academic entrepreneurship policies; planning and promotion of science park development; management of the National Science and Technology Development Fund of Executive Yuan; other matters related to scientific development, technology research and application.

### 國科會淨零科技推動成果

### National Science and Technology Council's Net Zero Technology Promotion Achievements

循環經濟、低碳排、環境永續、蔬果保鮮製劑、自動噴灑系統

連結網址 | <https://www.nstc.gov.tw/>



## 財團法人金屬工業研究發展中心 Metal Industries Research & Development Centre

機構與組織  
Institutions

攤位編號 | **S1312**  
Booth No.

財團法人金屬工業研究發展中心(簡稱金屬中心)是唯一總部設在台灣南部的研究機構。目前在6個縣市設有11個據點。由於 MIRDC 主要服務於金屬及相關行業因此也是為數不多能同時提供系統、整合和綜合服務(製造過程、設備、系統、管理、計算機化、檢驗、培訓、市場調查)的合法研發單位。

金屬中心擁有 1,000 項有效專利。全年出版金屬專業刊物近3萬種，每年指導和幫助超過1258家的企業，培養行業從業人員17219人，檢測、認證、協助產品開發、技術和管理服務17976件。

MIRDC is the only research institution headquartered in Southern Taiwan. It has currently 11 bases in 6 counties and cities. As MIRDC mainly serves the metal and related industries, which makes the organization become one of the few legal R&D entities that provide systematic, integrated and comprehensive service (manufacturing processes, equipment, systems, management, computerization, inspections, training, market surveys).

The organization also owns 1,000 valid patents. It has published nearly 30,000 professional publications on metals, guided and assisted 1,258 companies annually over the last year, cultivated 17,219 personnel in the industries, and tested, certified, assistance of product development, technology& management services 17,976 cases.

### 腳踏車零件\_Bicycle Parts

利用加工成形廠6061回收鋁料，添加100%鋁屑料重熔，透過複合式精煉製程技術，可穩定控制雜質及氫含量，以提高鋁湯品質，並搭配擠型以及鍛造製程參數，以製備符合自行車零組件的性質要求，利用回收鋁屑達到循環再生的目的。

Using recycled aluminium materials, adding 100% aluminium chips for remelting, and then using a compound refining process to control the impurities and hydrogen content stably to improve the quality of the aluminium soup further and integrate the extrusion and forging process parameters. The recycled aluminium scraps are used to achieve the purpose of recycling by making them into products that meet the property requirements of bicycle components.



避震坐管固定片



### 鋁模板\_Aluminum Formwork

鋁模板，過去國內建築模板主要以木模板為主，其不易重複使用(0~5次)且造成大量建築廢棄物，應用低耗能摩擦攪拌銲接技術於鋁模板，達到高品質低碳排放，接合後之鋁模板系統可重複使用(達300次)，且易安裝(減少人力成本)，廢棄之鋁模板亦可回收再製。

It solves the problem that the current domestic construction formwork is mainly based on wooden formwork, which is not easy to reuse (only 0 to 5 times) and efficiently generates much construction waste. Apply low-energy friction stir welding technology to aluminium formwork to achieve high-quality, low-carbon joints. The joined aluminium formwork system can be reused (up to 300 times) and is easy to install (reducing labour costs). Discarded aluminium formwork can be recycled, reused and remade.

連結網址 | [www.mirdc.org.tw](http://www.mirdc.org.tw)



## 財團法人金屬工業研究發展中心 Metal Industries Research & Development Centre

機構與組織  
Institutions

攤位編號 | **S1312**  
Booth No.

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### 金屬產業低碳導入解決方案\_Low-Carbon Solutions of the Metal Industries in Taiwan

輔導業者導入製程改善、能源轉換、循環經濟等低碳技術與管理系統之解決方案，協助業者實質提升工廠能源使用效率、降低能源成本與碳排放量。

Counselors can provide solutions in introducing process improvement, energy conversion, and circular economy low-carbon technologies and management systems, assisting businesses in significantly enhancing factory energy efficiency, reducing energy costs, and carbon emissions.

連結網址 | [www.mirdc.org.tw](http://www.mirdc.org.tw)

**工業技術研究院**Industrial Technology  
Research Institute機構與組織  
Institutions

## 地熱發電單一服務窗口

### The Single Service Window for Taiwan Geothermal Power

攤位編號 | **S1320**  
Booth No.

工業技術研究院是國際級的應用研究機構，擁有六千位研發尖兵，以科技研發，帶動產業發展，創造經濟價值，增進社會福祉為任務。自1973年成立以來，率先投入積體電路的研發，並孕育新興科技產業；累積近三萬件專利，並新創及育成，包括台積電、聯電、台灣光罩、晶元光電、盟立自動化、台生材等上市櫃公司，帶動一波波產業發展。

ITRI is a world-leading applied technology research institute with more than 6,000 outstanding employees. Its mission is to drive industrial development, create economic value, and enhance social well-being through technology R&D. Founded in 1973, it pioneered in IC development and started to nurture new tech ventures and deliver its R&D results to industries. ITRI has set up and incubated companies such as TSMC, UMC, Taiwan Mask Corp., Epistar Corp., Mirle Automation Corp., and Taiwan Biomaterial Co.

連結網址 | <https://www.itri.org.tw/>



## 財團法人金屬工業研究發展中心 Metal Industries Research & Development Centre

機構與組織  
Institutions

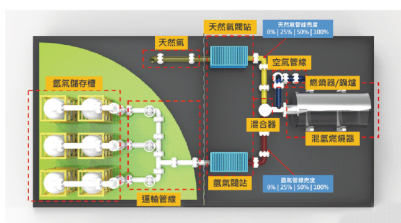
攤位編號 | **S1404**  
Booth No.

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### 氫氣燃燒工業應用暨高壓氫氣儲輸展示

#### Industrial application of hydrogen combustion and high-pressure hydrogen storage and transportation

定置型高壓氫氣輸儲系統: 抗氫脆高壓氫氣儲槽與管路, 開發不銹鋼銲接材料、銲接技術、耐氫滲透處理技術, 以及安全檢測驗證技術, 解決儲運關鍵氫脆問題。

Fixed high-pressure hydrogen transmission and storage system:  
Develop welding materials, technology and testing to solve the problem of hydrogen embrittlement in storage and transportation.



### 混氫燃燒器及工業加熱製程整合應用

#### Integrated Application of Mixed Hydrogen Burner and Industrial Heating Process

提供工業用混氫燃燒器設計與系統整合技術: 開發25%及50%氫氣與天然氣混燒技術及整合應用於鍋爐、熔解爐等工業爐, 滿足不同加熱製程品質、環保及安全性等要求。

Provide industrial mixed hydrogen burner design and system integration technology:  
develop hydrogen and natural gas mixed combustion technology and integrate it for different heating processes

連結網址 | [www.mirdc.org.tw](http://www.mirdc.org.tw)



## 成信實業股份有限公司 Transcene Corporation

資源循環專區  
Resource Circulation

攤位編號 | **S1232**  
Booth No.

成信實業以三階段路徑(廢棄物體檢診斷、資源物市場開發、研發資源商品生產技術)的創新思維，致力於為循環經濟與環保材料提供全方位解決方案。我們與半導體產業合作，將廢棄物轉變成電子級球形二氧化矽與功能性晶瓷粉等低碳排放且具成本競爭力之原料，協助客戶取得市場先機。

ESG效應帶來全球性生產結構的改變，再生料使用已不再只是降低成本及碳排，加入一定的比例將成為未來生產趨勢，成信實業秉承「穩定品質、準確交付；提高性能、客戶滿意」的要求，承諾提供客戶高品質之各項前瞻產品與服務。

Transcene Corp. is a company that focused on providing total solutions for the circular economy and eco-friendly materials. Our innovative ideas are based on a three-stage path, namely waste diagnosis, resource secondary market development, and re-design production technology for resource commodities. We work with the semiconductor industry to turn waste materials into low-carbon and cost-competitive raw materials such as electronic-grade spherical silicon dioxide and functional crystalline ceramic powders, helping our customers to gain a successful market lead.

The ESG effect has brought about changes in the global production structure. The use of recycled materials can reduce costs and carbon emissions, and adding a certain percentage of recycled materials to the production process will become the trend of the future. Adhering to the requirements of "stable quality, accurate delivery, improved performance, customer satisfaction", Transcene Corp. promises to provide customers with high-quality forward-looking products and services.



### 矽錠\_Silicon Sriqueette

矽錠系列產品屬於創新製品，市場上可取代慣用的進口矽鐵，運用添加於煉鋼的電爐、轉爐製程。不僅發揮化學升溫及還原的功用，減少用電量並提高合金回收率；在價格方面更較矽鐵便宜，整體性價比明顯優於進口矽鐵。由於矽錠是十足的國產化製品，原料取得來自國內矽晶切片的相關產業，如太陽能工業與半導體產業，在地化製造、在地化運輸、在地化使用。

Application: Steel industry.

產品影片  
Video



### 球形二氧化矽\_Spherical Silica

球形二氧化矽產品可以做為陶瓷釉藥原料、橡膠填充料、耐火材料、塗料填充料，用途廣泛，透過成信實業的巧思，成功解決半導體封裝產業廢壓模膠的處理問題，並同時協助產業增加不破壞自然的替代料源，建立球形二氧化矽的本土靜脈供應鏈，就近供應高性價比之材料給國內產業。

Application : Plastic products industry, tire industry, textile.

產品影片  
Video



連結網址 | <https://transcene.com.tw/>







## 南寶樹脂化學工廠股份有限公司 Nan Pao Resins Chemical Co., Ltd

資源循環專區  
Resource Circulation

攤位編號 | **S1232**  
Booth No.

南寶樹脂自1961年起即投入高分子化學技術研究，積極引進國際技術並奠定紮實生產基礎，液體塗料打響南寶品牌、接著劑產品全台市佔第一、鞋膠產品為三大品牌指定使用、知名建築採用高性能粉體塗料，也因應環保推出用途廣泛的熱熔膠產品，技術整合提供客戶全方面建築個案解決方法，南寶樹脂整合最全面的化學產品與技術，並以最高品質管理生產出令客戶滿意的產品。

Since 1961, Nan Pao Resin has been dedicated to polymer chemistry research, incorporating international technologies to establish a strong production foundation. It introduced the Nan Pao brand with coatings, led Taiwan's primer market, and became a designated shoe adhesive supplier. Renowned constructions used its high-performance powder coatings. Addressing environmental concerns, it launched versatile hot melt adhesives. Nan Pao Resin offers integrated solutions for architectural cases, boasting a comprehensive range of chemical products and top-quality production, ensuring customer satisfaction.



### 815R塗料(水性)\_815R Coating

本產品添加回收碳粉製成的黑色膏，可做為室內外防水、防龜裂、耐候彈性塗料。

This product contains a black paste made from recycled carbon powder and can be used as an indoor and outdoor waterproof, anti-crack, weather-resistant, flexible paint.



### 二氧化矽回收地坪漆\_Recycled Silica Flooring Coating

添加回收半導體廢棄物純化之二氧化矽，打造堅固耐用之地坪漆。

Adding purified silicon dioxide from recycled semiconductor waste to create a robust and durable floor paint.

連結網址 | <https://www.nanpao.com.tw/>



國際貿易股份有限公司

Kuo Chi Trading Co., Ltd.

國際貿易股份有限公司

KUO CHII TRADING CO., LTD.

資源循環專區  
Resource Circulation

攤位編號 | **S1232**  
Booth No.

國際貿易有70年橡膠銷售歷史，近年來我們與合作廠商齊力開發，材料回收純化，再製成綠色循環材料。目前我們循環材料擁有功能性母粒、黑煙膠、碳黑、二氧化矽、氧化鋅，這些材料已部分取得碳足跡、GRS、RCS等相關認證，並提供給國內廠家，創造產品價值，達到循環經濟的目的。循環、永續、創新一直是我們的使命，期待您的加入。

KC Global has over 70years of history in rubber sales. we have positively collaborated with suppliers in developing green materials in recent years. The materials from recycled for purification and made into green materials.

Our products have MasterBatch, Carbon Black, and Silicon Dioxide. Some of these products have obtained certifications such as carbon footprint, GRS, RCS, etc. In addition, our product helps manufacturers make merchandise with product value and achieve a circular economy.

Recycling, Sustainability, and Innovation are our vision. Hoping that you can join us.

### 環保碳黑\_ECO Carbon Black

環保碳黑是從廢輪胎經過熱裂解提取，是橡膠製品中重要的補強劑。多環芳香烴(PAHs) 含量小於10ppm，符合歐盟RoHS 2.0規範，與一般碳黑相比，可減少50%二氧化碳排放量。

Eco Carbon Black , a vital ingredient of rubber products, can be pyrolysed from scrap tires. With low PAHs(<10ppm) and is qualified by RoHS2.0. It reduces CO2 emission up 50% than original one.



### 功能性母粒\_MasterBatches

我們將通過GRS認證的石粉製成功能性母粒，應用在紡織及塑膠產業。產品的核心概念為達成循環再利用，並與客戶攜手走在減塑的趨勢上。

Use GRS certify recycle Semics Silica to conduct MasterBatch and apply by GRS, which is used in the textile and plastic industries. Our main core is to achieve recycle and reuse, an d to cooperate with our clients to keep up with the trend reducing plastic.



連結網址 | <https://www.group-kcg.com/>



湧鑫紡織科技開發有限公司  
AUSPRING CO.,LTD.

## 德春股份有限公司 Auspring Co., Ltd.

資源循環  
Resource Circulation

攤位編號 | S1232  
Booth No.

德春股份有限公司是領先特用化學品企業，總公司成立於1992年，位於臺北市中山區。我們應用德國先進之塑膠染色與製造技術，致力於研究開發及生產銷售紡絲及注塑用色母粒及有色粒子，功能性色母粒以及各式特殊工程塑料的染色抽粒等服務。

德春股份有限公司具備ISO14001 & 9001認證且擁有GRS(全球回收標準)認證為符合國際環保法規的專業生產製造廠商，採用原料皆符合SGS認證標準，通過RoHS、REACH、Oek-Tex等法規，為客戶提供各類環保料的配色，抽粒加工服務。

公司擁有2作生產基地，分別坐落大陸江西廠&台灣桃園廠。可提供兩岸與國外快速營銷服務。

Auspring is a leading specialty chemical company, founded in 1992 and headquartered in Zhongshan District, Taipei City. We apply advanced plastic dyeing and manufacturing technology from Germany, dedicated to researching, developing, producing, and selling color masterbatch and colored particles for spinning and injection molding, functional color masterbatch, and dyeing services for various special engineering plastics.

Auspring has ISO14001 & 9001 certification and GRS (Global Recycled Standard) certification as a professional production and manufacturing factory that complies with international environmental regulations. We use raw materials that meet SGS certification standards and comply with regulations such as RoHS, REACH, and Oek-Tex, providing customers with various environmentally friendly materials for color matching and processing services.

Auspring has two production bases, located in Jiangxi, China, and Taoyuan, Taiwan, respectively, providing fast marketing services for both sides of the Taiwan Strait and overseas.

The company's products and services can be divided into three categories:

1. Various plastic pigments, dyes, and masterbatches(including professional customized color matching, dyeing, and masterbatch)
2. Fine chemical raw materials
3. Special chemical machinery and equipment (imported from Germany and the United States, designated agents)

Over the years, we have served customers in the chemical fiber and plastics industries, providing excellent customer service and outstanding and stable quality to numerous domestic and international customers through advanced technology and sound management. Tech Spring has won unanimous praise from domestic and foreign customers and manufacturers. We will make every effort to serve you and create a prosperous tomorrow together.

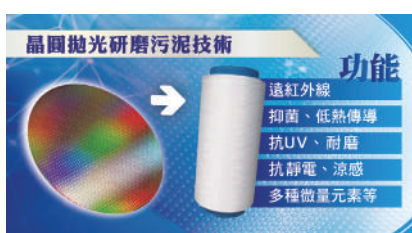


### 回收蛋殼紗\_Recycled eggshell yarn

蛋殼中主要成分碳酸鈣(CaCO<sub>3</sub>)經由高溫加熱煅燒後會轉變為氧化鈣，被氫氧基觸發而形成的活性氧(ROS)，會阻礙細菌的新陳代謝，破壞細胞的基本功能，導致細菌失活，並最終殺死細菌。另外蛋殼材料的低熱傳性能，讓紡織品擁有「夏天遮熱、冬天蓄熱」的功能。

In addition, the low heat transfer performance of eggshell materials allows textiles to have the function of "shielding heat in summer and storing heat in winter."

產品影片  
Video



### 晶圓紗\_GREEN SILICA

CMP又稱化學機械研磨 (Chemical-Mechanical Polishing)，是半導體元件製程中的一種核心技術，使用化學腐蝕及機械力對加工過程中的矽晶圓或其它襯底材料進行平坦化處理。回收CMP泥，運用「晶圓拋光汙泥研磨技術」進行純化分離研磨讓資源循環再利用，並進行混合造粒抽紗等工藝提升附加價值。符合ESG循環經濟國際規範。

use "wafer polishing sludge grinding technology" for purification, separation and grinding to recycle resources, and perform mixing, granulation, drawing and other processes to increase added value.

產品影片  
Video





國立高雄科技大學  
National Kaohsiung University of Science and Technology

成大大南方科研平台

GLORIA 2.0 SOUTH

資源循環

Resource Circulation

## 大南方科研產業化平台 國立高雄科技大學-產學營運處

攤位編號 | **S1239**

Booth No.

National Kaohsiung University of Science and Technology  
Office of Industry-Academia Cooperation GLORIA 2.0 SOUTH

產學運籌中心提供快速便捷、專業諮詢服務，統籌產學合作相關業務，包含案源開發、提案、技術媒合、提案、議價與專案管理等業務，並強化國際產學合作與鏈結服務，建立海外產學服務據點及簽定國際產學合作案。除媒合本校智慧財產及技術研究成果與產業合作，進行商品化、衍生新創企業輔導，也結合地方公協會共同發展產學共構課程及培育優質專業技術人才，並推動與產業及學校協作實務教學與實作學習，鏈結師生與在地產業結合，以推動在地產業經濟的發展及創造高附加價值效益，建立策略聯盟並打造產學一條龍服務。

合作諮詢窗口：產學營運處-產學運籌中心 王曉珍 副理

連絡電話：07-601-1000 分機31476 電子信箱：jasmine985@nkust.edu.tw

The Industry-Academia Collaboration and Operations Center (IACOC) provides fast, convenient, and professional advisory services. It coordinates various aspects of industry-academia cooperation, including sourcing projects, proposal development, technology matching, contract signing, negotiation, and project management. It also strengthens international industry-academia collaboration and linkages by establishing overseas industry-academia service points and signing international industry-academia cooperation agreements. In addition to matching our university's intellectual property and research results with industry collaborations, we promote commercialization and provide guidance for the development of new startup enterprises. We collaborate with local public associations to develop industry-academia co-constructed courses and nurture high-quality professional and technical talents. We also promote practical teaching and experiential learning through collaboration with industries and schools, linking students and teachers with local industries to drive local economic development and create high-value benefits. We establish strategic alliances and create a seamless industry-academia service ecosystem.

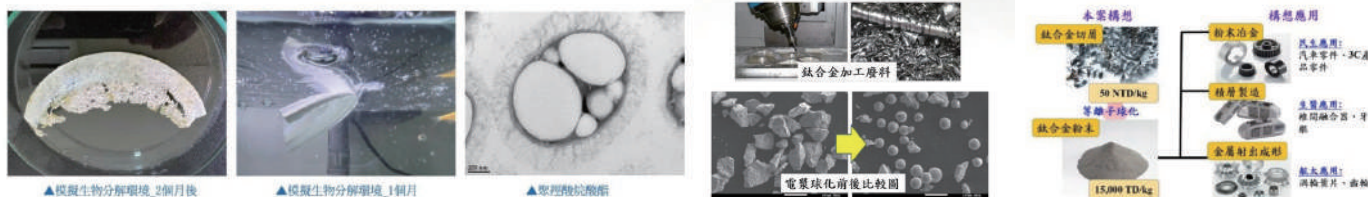
### 生物高分子純生物分解邁向零塑新世界 研發教師：國立高雄科技大學-海洋生物技術系 許德賢

本技術使用基因剔除特定菌株，更適合高細胞密度酸酵生產。

生產PHA產品單組成為P(3HB-co-33.7mol%3HV-co-2.1mol%4HV)的三元共物，是一兼具抗老化與富延展性質的PHA材料，延展性可達630%，機械性質與石化塑膠高密度聚乙(HDPE)類似，並且於室溫儲放三年後依然保有相同的延展性。

### 鈦合金加工廢料循環再製造高值粉體 研發教師：國立高雄科技大學-模具工程系 蔡孟修

機械加工後不規則形廢料以研磨方式將廢料細化成所需的粒徑，再以等離子球化技術，在極高的溫度下，以表面張力將不規則形狀廢料變成緻密球形粉體。可供積層製造產業應用在多孔醫材、交換器、燃油噴嘴等。相較於傳統氣霧法粉體製程，無氣孔粉體缺陷，原材料的成本僅有10%，粒徑可控制，解決粉末成本過高與廢鈦處理的問題。



連結網址 | <https://ord.nkust.edu.tw/>





## 宏遠興業股份有限公司 Everest Textile Co., Ltd.

資源循環  
Resource Circulation

攤位編號 | **S1420**  
Booth No.

宏遠興業創立於1988年，從紗、布、染整、後加工到成衣，擁有垂直整合一貫廠的優勢，在國際上被譽為智慧紡織廠。宏遠以研發創新、環境友善為永續核心價值，致力於研發創新和環境友善的紡織產品，提倡「衣的安全」和「穿得健康」理念。

在循環經濟等永續面扮演重要角色，以減少環境的影響為核心，使用環保材料、實施節能減碳、推行循環再利用，藉此降低碳排放、節約能源和資源，減少廢棄物產生，致力實現綠色生產並朝向可持續之目標發展。

Founded in 1988, Everest has the advantages of a vertically integrated factory from yarn, cloth, dyeing and finishing, post-processing to garments, and is known internationally as a smart textile factory. With R&D innovation and environmental friendliness as its sustainable core values, Everest is committed to the R&D of innovative and environmentally friendly textile products. Advocating the concepts of "Clothes Safety" and "Wearing Health". Everest plays an important role in circular economy and other aspects of sustainability. Focusing on reducing the impact on the environment, we use environmentally friendly materials. Implement energy saving and carbon reduction. These efforts aim to reduce carbon emissions, conserve energy and resources, minimize waste generation, and achieve green production in alignment with our sustainable goals.



### 宏遠寶特瓶回收機能膜\_Ever Recycle Membrane

宏遠寶特瓶回收機能膜旨在環境保護，含有20%的回收材。回收的PU膜是以回收寶特瓶經化學分解後的多元醇再製而成。此產品的耐水壓和透濕度可達10K/50K。

Aim at the environmental protection contains 20% recycled content. The recycled PU membrane is made from recycled PET bottles via chemical processing recycling.



### 宏遠碳捕捉聚酯纖維系列\_Ever Bio3 CCU Polyester

1. 廢氣再生利用
2. 降低30%溫室氣體排放
3. 優良的物化性

創新的碳捕捉技術，能將工業廢氣轉化為聚酯紗線原料，有效降低資源消耗，為地球的永續發展做出貢獻。

Convert off-gas from industrial into raw material of polyester, which can effectively reduce resource consumption and contribute to the sustainability of the earth.

連結網址 | [www.everest.com.tw](http://www.everest.com.tw)



## 台灣三資科技股份有限公司 Taiwan 3R Techonoligy Co., Ltd.

資源循環專區  
Resource Circulation

攤位編號 | Booth No. | **S2204**

2050 淨零排放是各行各業的永續經營的重大挑戰，尤其在三種範疇的碳盤查項目中，範疇三供應鏈的碳足跡所佔的比例最高，其中資源循環的零廢棄是政府推動的關鍵戰略之一。

台灣三資(Taiwan 3R)自2006成立宗旨即以3R(Reuse, Recycle, Recovery)為出發點，再循環經濟上著墨甚深，近十年來，更是以更高層次的3R(Rightful 合法處理, Resourcing資源化, Reputation企業聲望)與ESG 不謀而合。

同時擁有廢棄物再利用許可之實廠及甲級清除身分，及具有開發、設計、證照申請...等等的的能力，屬廢棄物熱裂解製程應用業者，更是少有。

台灣三資提供熱裂解設備整廠輸出，尤其在廠內再利用，不僅能省卻廢棄物處理費用，更能減碳及降低碳稅。

In 2050, net zero emission is a major challenge for the sustainable operation of various industries, especially among the three scope of carbon inventory projects, the carbon footprint of the supply chain in scope three accounts for the highest proportion, and the zero waste of resource recycling is the key to the government's promotion one of the strategies.

Since its establishment in 2006, Taiwan 3R has set its starting point with 3R (Reuse, Recycle, Recovery), and has been deeply involved in the recycling economy. In the past ten years, it has even processed legally with a higher level of 3R (Rightful, Resourcing, Reputation) coincides with ESG.

At the same time, it has a factory with a waste recycling permit and a Class A clearance status, as well as the ability to develop, design, and apply for a license, etc., which is rare in the waste pyrolysis process application industry.

Taiwan's 3R provides the whole plant output of pyrolysis equipment, especially the reuse in the plant, which can not only save waste treatment costs, but also reduce carbon and carbon tax.

### 熱裂解設備\_Pyrolysis equipment

台灣三資提供熱裂解設備整廠輸出，尤其在廠內再利用，不僅能省卻廢棄物處理費用，更能減碳及降低碳稅。

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產品影片  
Video



連結網址 | [www.twn3r.com](http://www.twn3r.com)

# chOsense

## 忠興集團

### Chosense Group

資源循環專區  
Resource Circulation

攤位編號 | **S1128**  
Booth No.

忠興集團一直致力於資源循環再利用，先後設立含銅/鎳廢液、廢硫酸、廢硫酸銨等廢棄物再利用機構，在對我們的生活環境盡一份心力同時也積極尋求循環經濟的契機。

2023年跨足電滲析設備及離子交換膜等高新技術，應用於廢舊鋰電池回收、鹽制酸鹼、物料的脫鹽/轉化等綠色製造和清潔生產，從而企業可以有效實現系統內的資源循環利用並節能降耗，為環保、資源、永續發展盡更多之心力。

Chosense Group has always been committed to the recycling and reuse of resources. It has successively set up waste reuse institutions such as copper/nickel waste liquid, waste sulfuric acid, waste ammonium sulfate, etc. It is doing its part to protect our living environment while also actively seeking ways to achieve a circular economy. .

In 2023, Chosense Group will expand into high-tech technologies such as electrodialysis equipment and ion exchange membranes, and apply them to green manufacturing and clean production such as waste lithium battery recycling, acid and alkali production from salt, and desalination/conversion of materials, so that companies can effectively realize resource recycling, reduce consumption and save energy from their internal system. Let's do more for environmental protection, resources and sustainable development.

### 雙極膜電滲析\_Bipolar Electrodialyzer (BPED)

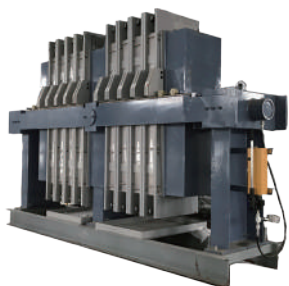
雙極膜電滲析是指在直流電場作用下，雙極膜將水解離為 $H^+$ 、 $OH^-$ ，再分別與物料中的鹽陰、陽離子結合，使含無機/有機鹽廢水生成無機/有機酸、鹼等應用，降低生產成本外，更達到廢棄物資源化的循環利用。

Bipolar membrane electrodialysis means that under the action of DC electric field, the bipolar membrane will dissociate the hydrolysis into  $H^+$ ,  $OH^-$ , and then combine with the salt anion and cation in the material respectively, so that the wastewater containing inorganic/organic salts can be generated into inorganic/organic acid, alkali, etc., which can not only reduce the cost of production, but also achieve the recycling of waste materials.

### 汙泥破壁劑\_Dehydrating agent of sludge

忠興集團研發的有機汙泥破壁劑，破壞微生物細胞壁使細胞中的水流出，可大幅降低有機汙泥的含水率至50%，減少汙泥處理量可達70%，並可製成固體再生燃料SRF產生綠電，使廢棄物能源化，減少碳排放，達到循環經濟的目標。

The sludge dewatering agent developed by Chosense Group is added into the sewage to break the cell wall of the microorganisms so that the water in the cells flows out, and then the water is evaporated and the remaining sludge is turned into renewable fuel, which not only reduces the difficulty of wastewater treatment, greatly reduces the size and lowers the cost of transportation, but also achieves the recycling and reuse of the remaining sludge as a fuel.



連結網址 | <http://www.chosense.com.tw/>



renouvo

## 鉅田潔淨技術股份有限公司

### JU TIAN CLEANTECH CO., LTD.

資源循環專區  
Resource Circulation

攤位編號 | **S2303**  
Booth No.

renouvo於2018年成立，其核心技術在於將農業剩餘資材轉化為符合淨零需求的材料，並製成家庭可堆肥餐具與包材，成功外銷全球。更於2022年取得英國標準協會BSI的產品碳足跡驗證聲明書，這低碳循環經濟理念榮獲美國IDA、MUSE設計大獎，以及法國巴黎雷平發明獎的金牌(Concours Lepine International Paris)，影響力擴及至全球。

renouvo秉持著「循環經濟」的理念，透過對廢棄資材進行循環再利用，使農業廢棄物免於掩埋或焚燒等增加環境成本的處理方式，重新獲得新的價值，讓有限資源的價值得以最大化，並以新的形式融入我們的三餐飲食中。在一個面臨持續變革的經濟、環境和社會挑戰的世界中，renouvo不遺餘力地為客戶提供可持續和創新的解決方案，協助企業量化減碳數據，打造ESG企業形象，同時也呼應聯合國永續發展目標。

renouvo was founded in 2018 with a core technology of converting agricultural waste into biomass materials and making home compostable packaging that are successfully exported globally, our low-carbon recycling economy concept has expanded globally by winning IDA and MUSE design awards in the US as well as a gold medal at the Concours Lepine International Paris.

renouvo upholds the concept of "circular economy", through the recycling of waste materials, agricultural waste is saved from disposal methods that increase environmental costs such as burial or incineration, and regains a new value that can be integrated into our lives.

renouvo strives to provide its customers with sustainable and innovative solutions that help companies quantify their carbon reduction data and build their ESG, while also echoing the UN's sustainability goals.



### 甘蔗吸管\_Sugarcane Straw

甘蔗吸管使用天然農業廢棄物，在陽光下曬乾後磨成細小的顆粒粉末，加入天然聚合材料產出植物纖維合成粒子，在原料混合過程中不添加有害物質，加工溫度相較於一般塑膠製品來的低，能有效減少耗能及碳排放，透過押出成型的方式製成，產品使用上無塑料污染，能夠在20-30°C足夠的溼度、氧氣與適當微生物存在的堆肥環境中，被微生物所代謝、自然分解成水和養分，回歸自然並重新使用。

Sugarcane Straws are made from natural agricultural waste through extrusion molding. It can be decomposed and returned to nature for reuse through home composting.

產品影片  
Video



### 甘蔗餐具\_Sugarcane Cutlery

甘蔗餐具透過農業廢棄物回收再生的方式，翻轉傳統線性生產與消費成為完全的循環經濟模式，增加資源使用效率，讓植物纖維餐具獲得新價值，餐具使用後可在足夠的溼度、氧氣與適當微生物存在的堆肥環境中，被微生物所代謝、自然分解成水和養分，使資源回歸原始大地，產品的設計是以聯合國永續發展目標的第12、13項為核心，確保地球有限的資源能以循環再生、永續的方式被利用，形成友善的經濟及產業系統，實踐永續發展。

Sugarcane Cutlery is made using injection molding and gains new value through the reuse of agri-waste, which can be broken down and returned to nature for reuse through home composting.

產品影片  
Video







# La French Tech Taiwan

永續城市  
Sustainable City

攤位編號 | **S1131**  
Booth No.

La French Tech 于2014年創立的全球法國新創公司生態系，是一個充滿活力的企業生態系統。這也是一個法國政府支持的項目，旨在強化法國成為全球科技領袖創業和擴展的最佳國家之一。而我們，La French Tech Taiwan，于2016年成立，是一個由一群志願者領導的非營利組織。我們的使命是通過活動、人才資源和推廣新創企業，在台灣推廣法國新創企業，並連結兩個生態系統。

La French Tech is the global French startup ecosystem launched in 2014. It is A VIBRANT ECOSYSTEM OF TECH START-UPS. It is also a government-backed movement bolstering France as one of the best countries in the world to start and scale global tech champions. And, We, La French Tech Taiwan was launched in 2016, is A non-profit association led by a group of volunteers. Our Mission is to promote French startups in Taiwan and connect the two ecosystems through events, talents sourcing, and exposure to the startup scene.

## 新創公司生態系\_Startup ecosystem

我們提供的服務使法國新創公司可以更了解台灣產業並能與其合作。同時，也讓台灣企業多一個與法國合作的契機。  
Helping French greentech startups to connect with Taiwanese companies and helping Taiwanese startups to find partnership or business opportunities in France.

## 創新交流活動\_Innovation Networking Events

我們的創新交流會讓法國與台灣的新創公司有更多的能見度。  
Helping French and Taiwanese startups to have better visibility among Taiwanese and French innovation ecosystems.

連結網址 | <https://www.frenchtechtaiwan.com>



## 盧森堡商保沃思國際(股)公司 台灣分公司 Paul Wurth International S.A. Taiwan Branch

永續城市  
Sustainable City

攤位編號 | **S1132**  
Booth No.

自1870年成立以來，保沃思位於盧森堡，現已轉型為一家國際工程公司。如今，保沃思集團是為鋼鐵行業及相關行業提供全方位技術解決方案設計和供應的全球領導者之一。

特別值得一提的是完整的高爐工廠的建設和現代化，採用了最新、最先進的技術。如今，保沃思的觸角還擴展到煉焦、直接還原技術，旨在節能和減少二氧化碳排放。整套設備、系統和流程的設計和建造輔以全套定制服務—工程、專案管理、現場監督、測試和售後服務—以及環保技術和綠色鋼廠。

保沃思集團還擁有最先進的鋼鐵廠技術，並繼續擴展其產品和服務範圍，以滿足有色金屬和鐵合金產業的需求。除了在工業領域的工作外，保沃思還在規劃和管理主要的區域建設和基礎設施項目方面享有盛譽。

Paul Wurth 擁有 1500 多名高技能員工和大約 20 家子公司和附屬公司，以在所有主要煉鋼市場擁有穩固的全球影響力而自豪。自 2021 年起，保沃思成為SMS集團的一部分。保沃思國際股份有限公司台灣分公司位於台灣高雄，負責東南亞市場。

總部地址：

PAUL WURTH S.A.

32, rue d'Alsace, L-1122 Luxembourg, Europe

台灣分公司地址：

盧森堡商保沃思國際(股)公司 台灣分公司

高雄市前鎮區806民權二路8號23樓之1

### PAUL WURTH PROFILE

Located in Luxembourg since its creation in 1870, Paul Wurth has transformed itself into an international engineering company. Today the Paul Wurth Group is one of the world leaders in the design and supply of the full-range of technological solutions for the iron & steel industry and affiliated sectors.

A special focus is on the construction and modernisation of complete blast furnace plants, incorporating the very latest, state-of-the-art technologies. Today Paul Wurth's portfolio also extends to cokemaking , direct reduction technologies with the aim of energy saving and CO2 reduction. The design and construction of complete plants, systems and processes are supplemented by a whole range of custom services - engineering, project management, site supervision, commissioning and after-sales service - as well as by environmental protection technologies and Green Steel plants.

The Paul Wurth Group also has state-of-the-art steelworks technologies and is continuing to extend its range of products and services to the needs of the non-ferrous and ferro-alloy sector.

As well as its work for industry, Paul Wurth has also gained an excellent reputation for planning and managing major regional construction and infrastructure projects.

With more than 1500 highly-skilled staff and some twenty subsidiaries and affiliated companies, the Paul Wurth can pride itself in having a solid global presence in all the major steelmaking markets.

Since 2021 Paul Wurth is part of SMS Group.

Paul Wurth International S.A. Taiwan Branch with its location in Kaohsiung, Taiwan is responsible for the South East Asian market.

Head office address:

PAUL WURTH S.A.

32, rue d'Alsace, L-1122 Luxembourg, Europe

PW Taiwan address:

PAUL WURTH International S.A.

Taiwan Branch, 23F-1, No.8 Min Chuan 2nd Road, Chien Chen District, 806 KAOHSIUNG, TAIWAN, R.O.C.

連結網址 | [www.paulwurth.com](http://www.paulwurth.com)





## 玩艸植造股份有限公司 WONDER GREENER CO., LTD

永續城市專區  
Sustainable City

攤位編號 | **S1135**  
Booth No.

我們「種植」吸管，用友善耕種的方式，與農民合作讓棄耕地產生經濟價值。

我們「供應」吸管，用替換材質的方式，讓減塑輕鬆融入每個人生活日常。

我們不僅僅是販售吸管本身，更期待將「草吸管」打造成全球性永續產品，透過種植、生產及販售所帶來的影響力，讓土地獲得生機、民生獲得經濟、植物發揮永續價值，讓生態與商業達成的完美平衡。

我們是玩艸植造，我們信仰天然追求自然，讓環境更有未來。

With the global widespread plastic issue. Wonder Greener starts the change with “straw”, a tiny but widely used thing. We truly believe this sustainable solution from nature. That is why we are dedicating to let more people to know the green straw.

We “grow” the straws on the ground, instead of making them with artificial way at a factory. We work with local farmers and the most eco-friendly method to turn abandoned lands to lands with purpose and value.

We “provide” straws, with green material, to help reducing plastic daily more easily.

We are not only selling the straws, but also expecting to make “Grass straws” an globally known green products. With the impact by farming, producing to create a balance of ecosystem and commerce.

Take a green sip.

### 水草吸管\_Grass Straw

產品影片  
Video



玩艸植造的水草吸管是由一種空心的草做成，堅持保留植物原型，不添加任何化學製劑，我們守護生態與食用安全的用心，都為了讓生活更純淨。

我們相信天然即自然的理念更多原始純淨的環境樣貌，永續之路期待有你的同行與支持。

The grass straw is made of plant, we keep the straw as simple as possible without adding any chemicals. With our dedication to the environment and food safety, we hope to make the planet cleaner and life more simple by lessen plastics.

We believe if we take care of nature, nature will take care of us. Sustainability is a journey, not the destination. Join us in contribution to a better and more sustainable future.



連結網址 | <https://www.wondergreener.com/>



## 臺灣智庫智策顧問有限公司 Taiwan Think Tank Smart Policy (TGSA)

永續城市專區  
Sustainable City

攤位編號 | **S1136**  
Booth No.

臺灣智庫智策有限公司團隊成員以深耕近10年，在2022年期間，輔導110家申請補助，企業通過1.2億元，並通過工業局低碳智慧化輔導顧問機構，協助企業「補助案」、「ESG輔導」相輔相成，企業碳盤查、ESG相關輔導，每月輔導5家企業以上，且持續成長。TGSA智庫開課自2022年累計已超過1000位學員報名。替台灣ESG發展貢獻心力。

我們幫助企業，從研發到行銷，過程中需要的補助輔導與ESG輔導服務一併執行，並深耕日本、馬來西亞等地，從研發到拿訂單，打造一條龍2.0之服務

Taiwan Think Tank Smart Policy (TGSA) have been working hard for nearly 10 years. During 2022, we had assisted 110 companies in applying for subsidies, and those companies passed NTD\$120 million. We're also assist the companies in "subsidy cases" through the Industrial Bureau's low-carbon smart guidance consulting agency.

### 碳盤查\_Carbon inventory

- 1.創新代盤
  - 2.彈性培訓
  - 3.永續輔導
- 1.Innovation agency
  - 2.Flexibility training
  - 3.Sustainable Counseling

### 企業ESG教育訓練課程\_Corporate ESG education and training courses

- 1.專業師資授課
  - 2.協助ESG證照取得
- 1.Professional teachers teach
  - 2.Assist in obtaining ESG certificates

連結網址 | <https://tgsa.com.tw/>

# 誠研創新

Legend Innovation

## 誠研創新股份有限公司 LEGEND INNOVATION INC.

永續城市專區  
Sustainable City

攤位編號 | **S1138**  
Booth No.

誠研創新以深耕科技事業產業化與國際化的早期新創投資經營及產業顧問公司，主要由多位來自產業與專業服務行業的高階經理人及經營者所組成。核心策略是以市場需求為導向找尋最好賽道並造車育人，創建高報酬之新市場營收模式為價值主張，故，我們專注於創新技術探勘、新創育成、早期投資並參與被投公司經營進而協助商模驗證，最後再以資本等關鍵資源來加速團隊成長並使誠研創新同步獲利出場，達到市場、團隊以及投資方三贏目標。

Legend Innovation, a Taiwanese early-stage startup investment and industry consulting firm founded in December 2020, is dedicated to promoting the globalization of technology-driven businesses. The company is formed with seasoned executives and professionals from diverse businesses and service areas. Passion, Expertise, Integrity, and Stability are the brand guarantees of the company.

The core strategy of Legend Innovation is market-based, constantly looking for promising opportunities to cultivate talent and high-yield business models. So, we focus on innovative technology prospecting, startup incubation, early-stage investments, and active participation in portfolio company operations to assist in validating business models. Ultimately, we leverage critical resources like capital to accelerate team growth and ensure that Legend Innovation achieves profitability in sync, achieving a win-win-win situation for the market, the team, and the investors.



### 數位孿生解決方案\_Digital Twins Solutions

產品影片  
Video



本產品為：以大帶新，中大企與基地提供平台讓新創技術發芽；以硬帶軟，以硬體帶動軟體創新形成行業解決方案；共同研發，產學研創共同推動主題式研發放大成果。綜上，本產品將已經驗證可行的解決方案，透過Owner的商業模式與優勢資源引入市場，依據不同應用場景與市場需求形成該行業的共通性產品服務，滿足既有優勢產業及創新前瞻產業的需求，進而快速擴大市場佔有率並獲取最大利潤池，或進一步成為供應鏈、共同接單，開拓更多商機。

This product is designed to:

Facilitate the germination of new startup technologies for large and medium-sized enterprises as well as startup bases.

Drive software innovation through hardware, forming industry-specific solutions.

Promote collaborative research and development with a focus on academia, industry, and research, amplifying the outcomes.

In summary, this product aims to introduce verified viable solutions to the market by leveraging the Owner's business model and resource advantages. It will create industry-specific product and service offerings based on various application scenarios and market demands, catering to both established industries and emerging innovative sectors. This approach enables rapid expansion of market share, capturing the maximum profit pool, and potentially expanding into supply chain collaborations to explore further business opportunities.



### 系統工程最佳化設計與自動化3D建模軟體\_xModel Designer

產品影片  
Video



新一代AI-3D模型技術「跨域模型(xModel)」，在整廠及無塵室系統設計上，協助系統工程廠商與設備廠商，為各類型的客戶提供最佳化與智慧化的AI設計及自動化的3D建模解決方案。

We are committed to creating a new generation of AI-3D model technology, which is a "cross-domain model (xModel)," assisting system engineering manufacturers and equipment manufacturers in the design of the whole plant and clean room systems and providing optimal solutions for various types of customers with intelligent AI design and automated 3D modeling solutions.

連結網址 | <https://www.legendinno.com.tw/>、<https://www.koda.net.tw/>





## 叡揚資訊股份有限公司 Galaxy Software Services

永續城市專區  
Sustainable City

攤位編號 | **S1231**  
Booth No.

叡揚資訊成立於 1987 年,是臺灣資訊軟體業的領導廠商,從2010年開始推出的 gsscloud.com 適合機關、企業,並且容易使用、支援行動化的全方位雲端服務系統,包括淨零碳排解決方案的Vital NetZero零碳雲;對外擴展業務和服務的Vital CRM客戶關係管理;直接和客戶溝通和經營會員集點的一物一碼服務Vital TTC物聯客;幫助內部管理的 Vital HCM人力資源管理;提升財務作業效率的 Vital Finance 財務會計管理;以及優化內部流程的Vital BizForm智慧表單;讓機關和企業核心知識傳承的Vital Knowledge 協同知識管理;即時線上辦公文更便利的Vital OD公文管理。協助客戶導入雲端服務時能成功數位化、數位優化更進一步達成數位轉型。

Founded in 1987, Galaxy Software Services Corporation (GSS) (6752-TE) is the leading provider of enterprise application software and cloud services (SaaS) in information technology industry in Taiwan. We have established long-term commitment with our customers through our innovative developments of mature software engineering, advanced collaboration, mobile telecommunication, cloud services, and other information technologies. Our innovative applications and solutions have won the heart of over 2,000 financial services firms, governmental units, hospitals, telecommunication providers and customers from various industries, along with recognitions from over 10,000 individual cloud application users.

### 零碳雲\_Vital NetZero

產品影片  
Video



Vital NetZero 零碳雲,包含 KPIM-N 數據管理及 CMP-N 認證管理兩大模組,支持企業於碳盤查與淨零排放從事數據管理與文件管理等日常作業,滿足 ISO 50001、ISO 14064、ISO14067 等各種國際標準合規項目與核心 PDCA 管理作業循環所必要的數據管理與文件管理作業,同步結合顧問輔導服務,幫助企業加速取得淨零各項國際認證,提高企業永續競爭力。

Vital NetZero, a system for ISO 50001 Energy Inventory, ISO 14064-1 GHG inventory, and ISO 14067 Product Carbon Footprint, helps corporations with daily carbon inventory, net zero emission data, and document management work.

連結網址 | <https://www.gsscloud.com/tw/>



## 威煦軟體開發有限公司

Wishing Software Development Co., LTD.

永續城市專區  
Sustainable City

攤位編號 | **S1235**  
Booth No.

威煦軟體專注於開發「環安雲」平台，協助客戶提高環安衛流程管理效率、降低企業風險，同時讓企業透過蒐集 ESH 數據，轉化成 ESG 績效指標，達到企業永續經營目標。

身為台灣市佔率第一的環安衛軟體公司，服務超過200間客戶，產業別橫跨傳產製造、高科技半導體、電子零組件、石化與化工、紡織、醫院與學術單位等，除深耕台灣外，也橫跨中國、日本、越南等市場，致力於成為亞洲第一大環安衛軟體服務供應商。

Wishingsoft specializes in developing the ESH Clouds platform, assisting clients in enhancing environmental, safety, and health (ESH) process management efficiency, reducing corporate risks, and enabling businesses to transform ESH data into ESG performance indicators, ultimately achieving sustainable business goals.

who we are:

As the top ESH software company in Taiwan by market share, we serve over 200 clients spanning various industries including traditional manufacturing, high-tech semiconductor, electronic components, petrochemicals, textiles, hospitals, and academic institutions. In addition to our strong presence in Taiwan, we have also expanded our footprint to markets in China, Japan, Vietnam, and beyond, aiming to become the largest ESH software service provider in Asia.

Our Mission:

Safety for all: Committed to creating safer work environments, fostering sustainable growth for both businesses and the environment.



### 環安雲解決方案\_eshclouds solution

專為ESG、ESH設計的管理系統：落實綠色永續運作，根據需求自由選配的SaaS管理平台。我們結合海內外專家、技術顧問豐富的實務經驗，與眾多領導品牌客戶一同討論，將各項常見作業拆解成輕巧的模組，不論是來自ISO驗證系統、各式法規或供應鏈要求，都可依據自身不同的需求及產業選用，打造最適合的ESH | ESG數位平台。

A management system designed specifically for ESH/ESG. Whether it's from ISO certification, various regulations, or supply chain requirements, you can choose based on your unique needs.

### 碳盤雲\_Carbon emissions

碳盤雲 | 碳盤查與減碳淨零

- 碳係數庫與係數搜尋器
- 分工協作與主動通知功能
- 淨零策略與報告書產出

Carbon Footprint Verification and Net Zero

- Carbon Emission Factor Database
- Multi-department Cooperation Mechanism
- Net Zero Strategy and Report

連結網址 | <https://www.wishingsoft.com>





## 友特濃縮顧問有限公司 YOUWAN CONCENTRATE CONSULTANTS Co., Ltd.

永續城市專區  
Sustainable City

攤位編號 | **S1237**  
Booth No.

友特濃縮顧問為「友特法」的創始公司，專注於提供「二氧化碳回收」「水回收」及「金屬回收」的解決方案，協助客戶以100%回收率，實現二氧化碳、水及金屬的淨化和循環利用。從而將客戶的回收材料商業化

YOUWAN Concentration Consultants invented "YOUWAN method", focusing on providing "carbon dioxide recycle", "water recycle" and "metal recycle" solutions, assisting customers with 100% recycling rate to achieve purification and recycling for carbon dioxide, water and metal. So as to commercialize customers' recycling materials.

### 友特法的二氧化碳濃縮系統\_YOUWAN method for CO2 concentrate system

友特法之二氧化碳濃縮系統可協助客戶進行廠內二氧化碳捕捉、降低能源消耗，並取得碳權，達到淨零碳排放的目標。

特點

- 1.可處理全濃度範圍的二氧化碳氣體。
- 2.二氧化碳回收率達到100%。
- 3.CO2濃縮倍數最高可達50,000倍

YOUWAN method for CO2 concentrate system assist customer to capture carbon dioxide in the factory, reduce energy consumption, and obtain carbon rights to achieve the goal of net zero carbon emissions.

### 友特法之水濃縮系統\_YOUWAN method for water concentrate system

友特法之水濃縮系統可協助客戶進行全廠水回收、降低設備電費及水費，進而達到節能減碳之目的，以因應ESG、法規規範等議題。

特點

- 1.全系統能耗降低75%以上。
- 2.水回收率達到100%。
- 3.濃縮倍數最高可達5,000倍

YOUWAN method for water concentrate system assist customer to recycle water, reduce equipment electricity consumption and tap water costs, and achieve the goal of energy and carbon reduction.

連結網址 | <http://cc-youwan.com/en>





## 西爾法國際有限公司 SILVA INTERNATIONAL CO., LTD.

永續城市專區  
Sustainable City

攤位編號 | **S2106**  
Booth No.

60年前，位於臺東池上的「義昌竹行」由父親開始經營竹製品加工，隨著臺灣產業環境改變，塑膠製品取代傳統木竹材質，加上人力成本攀升，進口竹材相對便宜，因此傳統竹行失去市場競爭力。面對鉅變，第二代孫瑞隆，憑著對極致工藝的熱誠，想用臺灣國產材料創造驚豔的面貌，105年成立【可能創藝】自有品牌，專注於臺灣各種國產木材運用，並發展臺灣好木系列。目前可能創藝團隊共有五名成員，都是熱愛木作工藝的臺東人，憑藉著對實木製造的熱誠，希望能提供更符合臺灣人居家生活、健康優質的木作產品。  
營業項目：木質獎牌獎杯、文創商品訂製、客製化實木家具訂做、大型裝置藝術製作。

Sixty years ago, "Yichang Bamboo Crafts" located in Chihshang, Taitung, began bamboo product processing under the management of the father. As Taiwan's industrial landscape changed, plastic products replaced traditional wood and bamboo materials. Additionally, with the rising costs of labor and the availability of cheaper imported bamboo, traditional bamboo crafts lost their market competitiveness. Faced with this significant shift, the second-generation, Sun Ruirong, fueled by a passion for exquisite craftsmanship, aimed to create astonishing designs using Taiwan's domestically sourced materials. In 2016, the brand "Potentials" was established, focusing on the use of various domestic wood materials in Taiwan and developing the "Taiwan Good Wood" series.

Currently, the Possible Creative team consists of five members, all passionate individuals from Taitung with a deep love for woodworking craftsmanship. Driven by their enthusiasm for creating with solid wood, they aspire to provide wooden products that better align with the living standards and health consciousness of the people in Taiwan.

Main Business Activities: Wooden plaques and trophies, customized creative merchandise, made-to-order custom solid wood furniture, large-scale installation art production.

### 木質獎牌獎杯\_Wooden plaques and trophies

我們擁有先進的3D精雕科技設備，以及精細純熟的表面處理技術，能滿足各式豐富造型的需求。加入LED氣氛燈、精油香氛等等功能，讓獎盃不僅僅是觀賞性的紀念品，還能是有實用功能的氣氛飾品。

We have advanced 3D carving and precise surface treatment, meeting diverse design needs. Our trophies, enhanced with LED lighting and essential oil scents, go beyond mere keepsakes—they're functional decor pieces.

### 文創商品訂製\_customized creative merchandise

從禮盒、杯墊，到結合精工零件的樂器、燈飾...等，我們擁有豐富的禮贈品製作經歷，也願意挑戰不同形式的作品。讓我們透過精緻的工藝，傳達您的心意。

We excel in crafting a wide range of gift items, from gift boxes and coasters to intricate instruments and lighting. Our refined craftsmanship helps convey your heartfelt sentiments.



連結網址 | <https://potentials823.com>





## 高柏科技股份有限公司 T-GLOBAL TECHNOLOGY CO., LTD.

永續城市專區  
Sustainable City

攤位編號 | **S2107**  
Booth No.

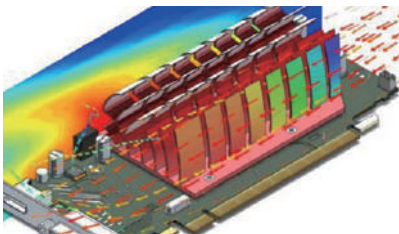
T-Global團隊能為您提供迅速而敏捷的服務，透過與合作夥伴共事，確保T-Global的產品與服務能解決您的散熱問題。我們擁有傲人的企業文化，以前瞻性的眼光鎖定未來新能源、5G、電動車等新興科技，專注於與夥伴建立長期穩定的合作關係，藉此贏得顧客、夥伴與員工的信賴。

我們期許自己能為下一代的科技助一臂之力，藉由創新散熱產品與服務推進科技的發展，在這裡，您可以一次購足所需的散熱材料。

The T-Global team can provide you with prompt and agile service, working with partners to ensure that T-Global products and services solve your heat dissipation problems. We pride ourselves on our culture of being forward-looking, targeting the future of new energy, 5G, electric vehicles and other emerging technologies, and focusing on building long-term, stable relationships with our partners to earn the trust of our customers, partners and employees.

We see ourselves as helping to advance the next generation of technology through innovative thermal products and services. Here you can buy all the materials for heat dissipation you need in one place, and we can find the most suitable thermal solution for you to solve your most difficult thermal problems.

T-Global's many years of research and development and sales experience have resulted in over 3,000 direct customers worldwide, excluding distributors, which are now using T-Global's products, such as Arris, Tesla Specialized, HP.

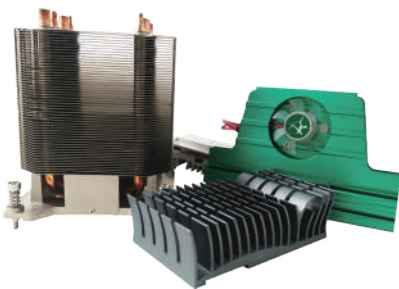


### 導熱介面材質\_Thermal Interface Material

導熱介面材料已經普遍應用於所有散熱模組中，以填補電子材料表面和散熱器接觸時，間隙存在的微小空隙及表面凹凸不平的孔洞。

Thermal interface materials have been generally used in all heat dissipation modules to fill the gaps and uneven holes on the surface of the electronic materials.

產品影片  
Video



### 熱模擬分析\_Thermal Simulation

隨著電子產品的開發週期縮短、高密度分布的元件設計，散熱的問題不再像以前一般容易解決。高柏科技深耕台灣多年，擁有頂尖的熱模擬分析軟體與專業的熱流工程師團隊，從產品開發前期的熱模擬分析、解熱方案諮詢，到後期試產、量產，高柏科技是您最強而有力的後盾。

With the shortened development cycle of electronic products and high-density component design, the problem of heat dissipation is no longer as easy to solve as before.

連結網址 | <https://www.tglobalcorp.com/tw>



50淨零解方聯盟

 永續城市專區  
Sustainable City

## 護全禪心國際股份有限公司

Huquan chanxin International conglomerate Co., Ltd.

 攤位編號 | **S2108**  
Booth No.

護全禪心國際為協助醫療單位ESG淨零轉型的學術查證公司。

為專業醫療體系提供導入ESG轉型解決方案，碳中和產品針對糖尿病患者與年長患者退化性關節炎、乾眼症以及肌膚保濕做全方位保護的最佳選擇。從原物料選取、生產、運輸上下游全都完成碳中和，讓各醫療單位透過推薦【護全禪心國際碳中和產品】就可導入ESG實踐永續健康照護。

Huquan Zenxin International is an academic verification company that assists medical institutions in ESG net-zero transformation. Provide ESG transformation solutions for professional medical systems, and carbon-neutral products are the best choice for all-round protection for diabetics and elderly patients with degenerative arthritis, dry eye syndrome and skin moisturizing. Carbon neutrality is achieved from raw material selection, production, and transportation upstream and downstream, so that all medical units can introduce ESG to practice sustainable health care by recommending [Huquan Zenxin International Carbon Neutral Products].

### 護全願行口服玻尿酸\_H.J.I HA

 產品影片  
Video


碳中和系列口服玻尿酸是三高與退化性關節炎、乾眼症患者保護最佳選擇。美國FDA、歐盟Efsa及台灣TFDA認證。專利：微膠囊技術，專利糖(棕櫚糖)，FCP-90-蛋白質含量高達90%，健字號海洋深層水。

Hyaluronic acid product of Carbon Neutrality, is best choice for especially Osteoarthritis, Dry eye syndrome, Hypertension, High blood cholesterol, High blood sugar. Approved by FDA, EFSA, TFDA.

### 護全禪心口服玻尿酸\_H.Q.C HA

茹素者可使用的口服玻尿酸，針對癌症患者營養補充免疫力提升、肝臟機能需求調理幫助體內毒素代謝增加肌膚光澤及保濕。調理三高、退化性關節炎採中草藥配方。專利：微膠囊包覆技術、蔘萃糖。ISO 9001-2008認證、HALAL認證、Kosher認證。

Aim to Nutritional supplements for cancer patients to enhance immunity, Liver toning helps the body metabolize toxins and increases skin radiance and hydration. In addition to control 3high-hypers, OA.



連結網址 | <https://www.hujiai-international.com>



## 笙榮紙業股份有限公司

### Pulp Paper Asia Co., Ltd.

50淨零解方聯盟

永續城市專區  
Sustainable City

攤位編號 | **S2108**  
Booth No.

笙榮紙業創立於1988年，在經營者的帶領之下，經過不斷的改革與創新研究，以超越自己為目標不斷的向上成長，以忠實的信念和務實的精神服務各種不同的需求；市場滿意度提昇，追求品質之穩定性，產量之恆久性，尊重客戶之需求，給予充分的支援，有良好的商譽，是我們堅持的目標。

笙榮的企業文化是以人為本是笙榮紙業的企業核心，我們期許每位員工在工作中必需不斷自我精進、勇於接受挑戰，並且維持求知精神。為了讓同仁能夠適才。

PPA established in 1988, has continuously grown under the leadership of its management team.

Through ongoing reforms and innovative research, the company strives to surpass itself. With a loyal commitment and a pragmatic approach, it serves a variety of needs, aiming to enhance customer satisfaction. The company pursues stability in product quality, long-term production capacity, and respects customer demands while providing full support. Maintaining a good reputation is a steadfast goal.

The corporate culture at Sheng Rong is centered around people. It is the core of Sheng Rong Paper's values. We expect every employee to continuously improve themselves, embrace challenges, and maintain a thirst for knowledge in their work.

Our goal is to ensure that each team member is in a role that suits their skills and abilities.



### 隔層紙\_Interlayer paper

隔層紙的主要功能是在存儲、運輸或展示物品時，將物品進行區隔並提供保護；防止物品之間的摩擦、污染或黏連；隔層紙通常很薄，以確保不增加存儲或包裝的體積和重量；可根據需求定制，選擇不同的尺寸、材質和質量等特性，以適應不同的用途和物品。

The main function of interlayer paper is to separate and provide protection for items during storage, transportation, or display; to prevent friction, contamination, or adhesion between items; inter

### 保護紙\_Protective Paper

主要功能是保護物品免受損害，如刮擦、污染、灰塵、潮濕等。它可以用於包裝、覆蓋、墊底或包裝物品，以確保它們在運輸、儲存或展示過程中保持完整和無損。

The primary function is to protect items from damage such as scratches, contamination, dust, humidity, etc. It can be used for wrapping, covering, cushioning, or packaging items to ensure they remain.

連結網址 | <https://www.pulp.com.tw>



## 二方企業股份有限公司 Dewtek Drying Systems Co.,Ltd.

50淨零解方聯盟

永續城市專區  
Sustainable City攤位編號 | **S2108**  
Booth No.

我們製造的產品都是以節能為目的，面對全球複雜多變的挑戰，我們專注於產品研發、經營方針的轉型，將研發中心的根留在臺灣，百分之百臺灣製造，期望打造出有效節能且密閉無臭的乾燥設備。其成果多方面應用於染整紡織業、電子電鍍業、石化工業、食品加工等，相關產業的服務，並且將傳統產業的升級視為目標之一，同時也積極參與ESG相關課題。

Our products are all designed with energy efficiency in mind. In the face of the complex and ever-changing global challenges, we are focusing on product development and transforming our business policies. We are committed to keeping our research and development center in Taiwan and maintaining 100% Taiwan-based manufacturing. Our goal is to create highly efficient, sealed, and odorless drying equipment. The results of our efforts are applied across various industries, including textile dyeing, electronics plating, petrochemicals, and food processing, among others. We provide services to these industries, and we consider upgrading traditional industries as one of our objectives. Additionally, we actively participate in ESG-related initiatives.



### 節能乾燥機\_heat pump drying machine

Dewtek擁有台灣業界最小的節能乾燥主機，最小僅0.32坪大，設備採用密閉循環系統，因此不會排放廢熱(熱能)，也無須加裝環保裝置，僅需要利用乾燥物產生的水氣及少量的電即可維持能源交換，乾燥費用更省。

The equipment employs a closed-loop system, eliminating the release of waste thermal energy and the need for additional environmental protection devices. It only relies on the moisture generated during the drying process and a minimal amount of electricity to maintain energy exchange, resulting in cost-efficient drying.

### 雙動力食品乾燥機\_Heat pump food dehydrator

設備採用熱泵+電熱雙系統，設置溫度為35~100度，全程密閉乾燥不排氣，比起傳統高溫烤箱能保留更多風味及營養。另外，在箱內出風口側同時也設置了UVC殺菌燈，能有效消滅空氣中的細菌，降低產品腐敗。

The equipment utilizes a dual system of heat pump and electric heating, with a temperature range of 35~100°C. It operates in a completely sealed manner throughout the drying process, without emitting exhaust, which preserves more flavor and nutrients compared to traditional high-temperature ovens.

連結網址 | <https://www.dewtek.com.tw>

# 知覺 Zhijue

50淨零解方聯盟

永續城市專區  
Sustainable City

## 舒果蕾有限公司/知覺優格 Shu Guo Lei Co., Ltd / Zhi Jue Yogurt

攤位編號 | **S2108**  
Booth No.

知覺，食的覺知、有意識的選擇對身體好的原味食物和回到最單純的食物本質，就是種『覺醒』！攝取對的食物能復甦身體的理性與活力，且解救我們被精緻糖、化學加工品綁架的身心，讓你重新擁抱它，真正的成為自己的支配者！我們是全台是第一間做到碳中和的優格品牌，意思為大家在知覺消費的產品不會增加地球溫室氣體的負擔，自2017年創立品牌時就推動空瓶回收計劃，品牌顧慮所有人的健康同時也重視環境保護，而消費者手提袋重複使用則享有優惠方案，也就是避免製造過多垃圾而做的減碳計畫。

The name “Zhi Jue” means “consumers’ perception of food” (our vision and goal is to target socially conscious consumers who are conscious of the intake of the foods into the body), nowadays the end-user consumers are more focused on natural food products and the sustainability of it. Selecting gourmet food enables consumers to be more alert and be aware of the refined sugar and chemical products that are being used in the processing system. Allowing consumers to benefit from the yogurt and finally achieve the end results of producing healthy food. Zhi Jue is the first yogurt brand in Taiwan to achieve “Carbon Neutrality”. Consumers have the upper-hand and the power to make own decision when purchasing these healthy products from our company as our company are very explicit on the labels. In 2017, we held “an empty bottle recycling program” to ensure our health as well as the importance of our environment. Another program aims to carbon reduction by encouraging consumers to reuse “handbags”, it promotes more environmentally friendly lifestyle.



### 原味優格\_Plain Yogurt

優格商品皆採用100%無調整鮮乳製作，並是全台第一間在優格裡加入菊苣膳食纖維(一種益生質，幫助益生菌在腸道健康存活，同時也是膳食纖維，有助於促進腸胃蠕動)，還包括了以下菌種：嗜熱鏈球菌、保加利亞菌、嗜酸乳桿菌 NCFM、乳雙歧桿菌HN019、鼠李糖乳桿菌HN001，讓人每口就能吃到十億乳酸活菌！絕無添加防腐劑、奶粉、香料，也無添加任何一滴水，全鮮乳製作，總成分少於五種，絕對優質安全！

Our yogurt is a nutritious dairy product by using 100% unmodified fresh milk, and we are the first company in Taiwan to add Inulin (a prebiotic that stays in the bowel and supports certain beneficial bacteria to grow.) in this type of yogurt. It contains live and active probiotic bacteria which could encourage a healthier gut environment by growing the number of beneficial bacteria in the gut), it also includes a variety of nutrients: Streptococcus thermophilus, Bulgaricus, Lactobacillus acidophilus NCFM, Bifidobacterium lactis HN019, Lactobacillus rhamnosus HN001, ensuring the yogurt product contains at least 100 million cultures per serving of yogurt at the time of manufacturing. The yogurt products are without preservatives, milk powder, spices, or any water. It is being manufactured entirely from 100% fresh milk and only five ingredients in total, all of which play important roles in safety of this product.



### 優格飲\_Yogurt Easy Drink

優格飲裡的果醬為品牌嚴選水果，果醬的黏稠感是經過熬煮來帶出水果本身膠質，成分單純、僅加入冰糖和檸檬汁製成，百分之百不含化學添加物！一瓶優格加果醬，輕鬆帶著走，早晚一瓶，隨時補充2500億好菌！

The jam in the yogurt is carefully selected. Goopy and sticky jam is because braising fruits will bring out the gelatin of the fruit itself. With just a few simple ingredients-rock sugar and lemon juice, and it's definitely 100% free of chemical additives! Take a bottle of “Yogurt Easy Drink” with you, drink one in the morning another one in the evening so you always have a healthy source of 250 billion live cultures in the body!



創意量子科技有限公司

## 創意量子科技有限公司 Creativity Technology Co.

50淨零解方聯盟

永續城市專區  
Sustainable City

攤位編號 | **S2108**  
Booth No.

1. 本公司致力於利用豐富的資源，並擁有台灣獨家的創新技術和專利。將尖端技術引入未知領域，最終目標是為企業提供更經濟高效、更環保的工作環境。

2. 深厚的專業知識是您選擇我們品牌最有力的保證。我們提供全面性的服務，由高技能的專業團隊提供卓越的售後服務。

環境保護和能源效率做為本公司的核心價值，積極推動綠色能源領域以達成永續發展。更致力於優化能源消耗以實現效率最大化。並達成節約能源和減少碳排放的目標。

1. Our company is dedicated to harnessing a wealth of resources, boasting the exclusive possession of innovative technology and patents in Taiwan. Our primary objective is to introduce cutting-edge technology into uncharted domains, with the ultimate aim of delivering a more economically efficient and eco-friendly work environment for businesses."

2. The depth of our expertise is your strongest guarantee when selecting our brand. We provide a comprehensive array of services, supported by a highly skilled professional team, and an unwavering commitment to post-sales excellence

3. Embracing environmental conservation and energy efficiency as our core values, we are fervently advancing the sustainable growth of the green energy sector. Our mission goes beyond enhancing daily life's convenience and comfort; we're committed to optimizing energy consumption to achieve maximum efficiency, all in pursuit of our goal to conserve energy and reduce carbon emissions



### 節電棒、節電片\_Energy saving electronic chip

節電棒：適用於大功率工廠

節電片：適用於家庭、社區、營業場所

Power-saving stick: suitable for high-power factories

Energy-saving tablets: suitable for families, communities, and business places



### 手機節電貼片、節電插座\_Mobile

手機節電貼片：任何手機

Mobile phone battery saving patch: any mobile phone

連結網址 | <http://ctc-tw.com>





## 亮易科技有限公司

Liang Yi Trade Co., Ltd.

50淨零解方聯盟

永續城市專區  
Sustainable City

攤位編號 | **S2108**  
Booth No.

我們以ISO27001及ESG為中心，致力提供高品質的資訊解決方案，並不斷追求創新以提供多項專業的資訊服務。

**客製化軟體開發：**根據客戶需求，開發軟體解決方案，也能將不同系統整合。

**偽冒網站偵測下架：**以先進的偽冒網站偵測技術，保護客戶的品牌聲譽和用戶安全。

**數位健檢：**對客戶的數位環境進行全面的健檢，發現潛在問題和風險，也結合ESG，助企業實現數位轉型之餘，兼顧可持續發展。RPA 流程自動化：擁有專業的RPA技術團隊，能夠幫助客戶實現流程自動化。

Liang Yi as a software development integration company, we take ISO27001 and ESG as our development direction.

Our major services include:

- **Customized Software Development:** Develop software solutions based on customer needs. We can also integrate with other systems and IoT.
- **Detection and Removal:** Use advanced counterfeit website detection technology to protect customers' brand reputation and user safety.
- **Digital Health Check:** Conduct a comprehensive health check of customer's digital environment to identify potential problems and risks. It also incorporates ESG to help companies to achieve digital transformation while taking into account of sustainable development.
- **Robotic Process Automation:** We have a professional RPA technical team that can help customers realize system process automation. Our solutions are not only aim at fulfilling customers' needs, but also consider environmental and social responsibilities. For example, adopting green technologies, etc.

### 機器人流程自動化\_Robotic Process Automation

RPA機器人可以模擬和自動化人類在電腦上的操作，從而提高效率、降低成本並減少人為錯誤。RPA也可以自動執行重複性和基於規則的任務，釋放勞動力以專注於策略和增值活動。提高效率、準確性和性能。RPA的應用範圍廣泛，可以在不同的行業和組織中使用。它們可以執行各種重複性任務，例如數據輸入、文件處理、資料整合、報告生成和系統集成。

Streamline Business Processes

RPA can automate repetitive and rule based tasks, free up human workforce to focus on strategic and value-added activities. To rise efficiency, accuracy, performance.

### 數位風險防護服務\_Digital Risk Protection Service

我們DRP服務包括檢測和刪除。專注於全面的數位安全和威脅緩解服務，為各種線上威脅提供快速且有效率的消除解決方案。憑藉一支由網路安全專家和尖端技術組成的專業團隊，我們確保您的品牌聲譽不受玷污，客戶的信任始終堅定不移。我們可以反網路釣魚、品牌侵權保護、行動應用保護、社群媒體保護、VIP保護、誤報預防、資料外洩偵測、反盜版...

DRP Services includes Detection and Take Down. We can Anti-Phishing, Brand infringement, Mobile Apps, Social Media, VIP Protection, False Positive Prevention, Data Leakage Detection, Anti-Piracy...



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## 程發工業股份有限公司

Great Cycle Industrial Co., Ltd.

50淨零解方聯盟

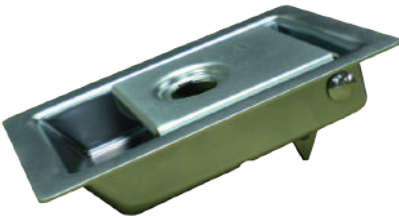
永續城市專區  
Sustainable City攤位編號 | **S2108**  
Booth No.

程發工業股份有限公司(GREAT CYCLE INDUSTRIAL CO.,LTD)由顏東瞭先生創立於民國66年7月。本公司專營汽、機車零件、電子零件、沖床、五金等加工製造廠。經歷四十餘年之努力，目前資本額為8400萬元，員工人數為100餘人。民族廠佔地總面積為2798平方公尺，廠房面積為1702平方公尺；仁武廠佔地面積約10000平方公尺，廠房面積約7000平方公尺。

Great Cycle Industrial Co., Ltd (hereinafter, "The Company") was founded by TUNG-LIAO YEN in 1977. The company mainly engaged in the processing and manufacturing of automobile, motorcycle parts ,electronic parts, punches and hardwares. After more than 40 years of operation, the company's current capital is 84 million, and the number of employees is more than 100. Min-Zu factory occupies an area of 2798 square meters of which 1702 square meters are reserved for manufacturing. Ren-Wu factory occupies an area of 10000 square meters of which 7000 square meters are reserved for manufacturing.



### 車架\_Frame

保安部品  
safety related parts

### 門鎖\_Lock

重型機械門鎖  
heavy machinery door lock連結網址 | <http://www.chenfa.com.tw/home.php>



## 日益和股份有限公司 SUN SURFACE TECHNOLOGY CO., LTD.

永續城市專區  
Sustainable City

攤位編號 | **S2210**  
Booth No.

公司設立於1998年，初期資本額新臺幣500萬元，經多次增資至今為新臺幣3億元，主要營運項目為先進化學品製造，原材料，相關耗材與設備引進，我們有堅強研發團隊，80%以上販售產品皆為自主研發配方。在台灣和中國大陸都有據點和生產基地，營運範圍廣及台灣、中國大陸及東南亞，公司在台灣有3個生產基地，在中國大陸有2個生產基地，有利解決客戶供應的風險管理。

本公司成立以來，除了獲得IS9001:2015品質認證外，更在近年拿到ISO14001:2015環境認證和ISO45001:2018職安衛認證。一貫秉持和諧、服務、技術、決心的經營理念，以品質優良的產品與服務，忠實地配合顧客，多年來業績穩定成長，並在業界獲得很高的評價與肯定。

The company was established in 1998 with an initial registered capital of NT\$5 million. It has been increased to reach NT\$300 million nowadays. The main business coverages are advance chemical manufacturing, raw materials, related consumables and equipment introduction. We have a strong R&D team, more than 80% of the products sold are formulated on our own.

We have the offices in Taiwan and China, also have 3 production bases in Taiwan; 2 production bases in China. it is beneficial to solve the risk management of supply for customer.

Since establishment, the company has obtained not only IS9001:2015 quality certification, but also ISO14001:2015 environmental certification and ISO45001:2018 occupational health safety certification in recent years. Harmony, service, technology, determination are our business philosophy. customers are cooperated faithfully with high-quality products and services. Over the years, we grow up steadily, get high evaluation and affirmation in this industry.

### 化學除膠液\_Chemical Deflashing (CD) chemicals

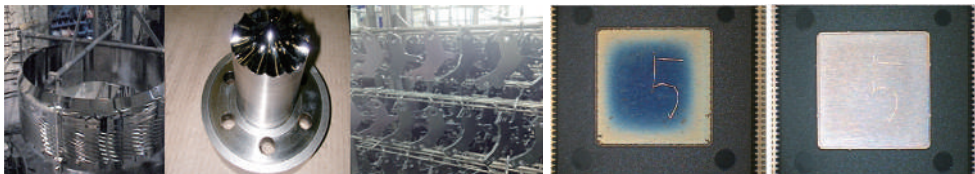
半導體封裝製程中的化學除膠(CD)製程，主要是將導線架以化學藥水來作浸泡，藉此可將膜壓後溢出的樹脂殘膠予以去除。產品特性：1.可於較低溫下操作即可有效去除溢脂溢膠 2.使用CD藥水後不傷導線架底材 3.廣泛適用於各種材質之導線架 4.操作性佳

1. Excellent ability to remove molding flash/resin bleed at lower temperatures
2. Not damage to the substrate of lead frame
3. Suitable for lead frames with PPF, Cu alloy or Fe/Ni alloy substrate

### 光阻顯影液\_Photoresist Developer

日益和無機顯影液主要是以鉀鹽系統所調配的鹼性顯影液，因其中具有一定的緩衝力，可使顯影過程中的pH值變化幅度小且較為穩定，一般通稱為MIB (metal ion bearing) 顯影液。產品特性：1.SBD-700系列顯影液穩定性高，且品質管控良好(金屬不純物及微粒子數) 2.濃度值R1/R2穩定不飄移 3.可提供客戶特殊需求之濃度(如顯影後對比或解析度要求較高) 4.無刺激性臭味(無味)

1. Good performance stability and quality control particularly on metal impurities and particles
2. Less variation on R1 & R2
3. Concentration adjustable to meet special requirements
4. No pungent odor



# bsi.

## 英國標準協會 BSI

永續城市專區  
Sustainable City

攤位編號 | **S2310**  
Booth No.

BSI是英國皇家特許的國家標準機構，為ISO創始會員之一，制定了許多全球普遍採用的標準，並為ISO國際組織所引用，包含ISO 9001品質管理、ISO 45001職業安全衛生、ISO 27001資訊安全、ISO 50001能源管理、ISO 14067碳足跡、ISO 14046水足跡等。

BSI致力於以標準協助企業為未來做好準備，在全球提供標準制定、教育訓練、稽核驗證、產品測試等服務，和相關的線上資料庫、平台等工具，協助企業組織管理風險，提升ESG的環境、社會、公司治理各面向，並朝向淨零與碳中和目標邁進。

BSI is the business improvement and standards company. Our purpose is to inspire trust for a more resilient world. Our solutions and services improve performance and support the United Nations Sustainable Development Goals (UN SDGs). At BSI, our mission is to share knowledge, innovation and best practice to help people and organizations make excellence a habit. This is underpinned by our role as the UK's national standards body and through our prestigious Royal Charter. For more than a century we have been challenging mediocrity and complacency to help embed excellence into the way people and products work. That means showing businesses how to improve performance, reduce risk and achieve sustainable growth. As a global leader in helping organizations improve, our clients range from high profile brands to small, local companies in 193 countries worldwide.



### 標準教育訓練與驗證 Training and certification for ISO standards

BSI提供各類標準的教育訓練和驗證，包含BS 8001循環經濟、ISO 20400永續採購、TCFD氣候變遷架構查核，CSR企業社會責任報告書、ISO 14064溫室氣體、ISO 14067碳足跡、ISO 14046水足跡、PAS 2060 碳中和、ISO 14051物質流成本會計，及其他國際標準。

BSI provides training courses and verification for BS 8001 circular economy, ISO 14064 greenhouse gas, ISO 14067 carbon footprint, PAS 2060 carbon neutrality, and other international standards.



### 碳中和產品 BSI Kitemark™ BSI Kitemark™ for carbon-neutral products

產品影片  
Video



碳中和產品 BSI Kitemark™ 可證明產品已經過國際標準測試，並通過了嚴格的測試標準，確認其符合碳中和聲明。

The BSI Kitemark for carbon-neutral products proves that a product has been tested to international standards and passed rigorous testing criteria confirming that it meets its carbon-neutral claims.

連結網址 | [www.bsigroup.tw](http://www.bsigroup.tw)



## 大亞電線電纜股份有限公司

### TA YA ELECTRIC WIRE&CABLE CO., LTD.

能源專區  
Energy

攤位編號 | **S1326**  
Booth No.

1955年，本公司的前身「大亞實業社」於台南市成立。1967年，更名為大亞電線電纜股份有限公司，除生產高壓橡膠電線電纜，也開始製造漆包線。1986年，遷廠至關廟現址，大亞集團深耕台灣，並在中國和越南建立生產基地。走過一甲子，公司全體員工勤勉不怠，與公司共存共榮，一起開創新事業，不斷的促使公司邁向多角化經營。

1955 - "Ta Ya Enterprise," the Company's former entity, was founded in Tainan City. 1967 - Changed name to Ta Ya Electric Wire & Cable Co., Ltd., and began production of magnet wires in addition to high-voltage rubber-insulated cables. 1986 - Relocated to the current address at Kuan Miao Dist. With a headquarter in Taiwan, Ta Ya has since begun constructing production facilities in China and Vietnam. In the last 60 years, the Company was fortunate to have a team of employees who worked diligently with mutual benefit, and who are constantly exploring and seeking diversification into new businesses.

### 電力電纜&通信電纜\_Energy & Telecom. Cable

電力通信事業群，下轄電通生產處、電通業務處與品保處，主要產品可分為：電力電纜、通信電纜與光纖電纜，皆是現代生活不可或缺的要角。大亞專注於產品創新與品質提昇，領先同業開發出161KV及345KV交連PE電力電纜。另一方面，大亞更將對環境與人的關懷，融入產品設計之中，發展出一系列低煙無鹵素電纜、耐熱耐燃耐火電纜、低煙無毒光纜與太陽能用線等產品，其中超越歐盟規範並取得環保標章的無鉛電線。

The Energy & Telecom Cable Business Group consists of a Production Department, a Business Department and a Quality Assurance Department. Its key products include: power cables, communication cables, and fiber optic cables. All of which are necessities in the modern life. Ta Ya's focus on product innovation and quality enhancement has enabled it to develop 161KV and 345KV cross-linked PE power cables ahead of peers. Furthermore, Ta Ya has incorporated its care for the environment and people into product design, and introduced a series of low-smoke halogen-free power cables, heat-resistant power cables, and low-smoke zero-toxicity fiber optic cables and solar energy cables. With the launch of environmentally certified lead-free power cables in excess of EU standards, Ta Ya has once again proven its superiority over peers.

**大亞產品範疇**

- 超高壓電力電纜**：應用於台灣超高压輸電系統 (69~345kV)
- 漆包線**：應用於航太產品、汽機車產品、工業產品、民生家用產品到3C科技產品。
- 中低壓電力電纜**：使用於公共工程、大眾捷運系統、高科技廠區及太陽能電廠用的PV wire.....等等。
- 三層絕緣線**：應用於手機光電器、個人電腦變壓器、印表機、變頻器...等等。
- 通信電纜**：應用於市內電信地下/架空線路、交換局與用戶間之幹線線路、建築物內電纜配線。
- 光纖光纜**：具備低損耗、高強度、高傳輸容量之特點。

**產業轉型-投資聚恆並創立大亞綠能**

■2014年創立大亞綠能，投資「聚恆」切入太陽能發電領域，旗下有博斯、博碩、大亞、心忠、志光逾5間電廠，目前併網容量達212MW。

■聚恆是全台灣第一家、亞洲第二家取得德國萊茵 O&M(運轉維護)認證的EPC廠商，聚恆EPC的工程累積建置量：水面-102kW、屋頂-112.49MW、地面型-98.37MW

大亞綠能 = TAYA GROUP 大亞集團 + HEN-S

心忠電業(地面型) | 永康科學園區(水面型) | 志光能廠第一期 | 大亞關廟廠區(屋頂型)

連結網址 | <https://www.taya.com.tw/>



節能創能減碳聯盟  
ESG CARBON REDUCTION COALITION

能源專區  
Energy

## 殷聖節能泵浦股份有限公司 INSHENG ENGINEERING CO.,LTD.

攤位編號 | **S1332**  
Booth No.

殷聖自創品牌提供客製節能減碳泵浦，公司堅持依據歐盟高效率泵浦低碳C40以上標準進行產品設計。公司節能泵浦系列產品獲得臺灣能源局C40高效率泵浦認證以及歐盟C80最高標準能效泵浦認證；泵浦效率達89.34%（一般設計效率84%~87%），且為臺灣唯一可以生產塑料泵浦口徑25mm-250mm的製造商。殷聖憑藉優異能效成為客製節能泵浦的領導品牌。

INSHENG's own brand provides customized energy-saving and carbon-reducing pumps. The company insists on product design based on the EU high-efficiency pumps and low-carbon C40 standards. The company's energy-saving pump series products have obtained the Taiwan Bureau of Energy's C40 high efficiency pump certification and the EU's C80 highest standard energy efficiency pump certification. The pump efficiency reaches 89.34% (general design efficiency 84% ~ 87%), and INSHENG is the only Taiwan manufacturer that can produce plastic pump with caliber of 25mm-250mm. INSHENG has become the leading brand of customized energy-saving pumps with its excellent energy efficiency.



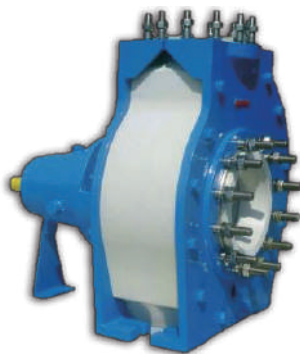
### 臥式金屬泵浦\_ Standardized Metallic Pump (SD-SA)

產品影片  
Video



依照歐盟最低能效要求C40~C80 設計生產。材質應用：SCS、雙相鋼、高鉻鋼、哈氏合金鋼；應用場域：化學廠、鋼鐵廠、汙水處理、海水淡化。

Designed and manufactured in accordance with EU Minimum Energy Efficiency Requirements C40-C80. Materials Used: SCS, 2-phase Steel, High Chrome Steel, Hastelloy Alloy. Application Fields: Chemical Plant, Steel Refinery, Sewer Treatment, Desalination.



### 臥式塑料(化學)泵浦\_ Standardized Chemical Pump (HC)

產品影片  
Video



塑料泵浦高效率3D葉輪設計&客製設計生產。泵浦口徑：φ25~250φ，可客製設計生產；輸送高腐蝕液體：強鹼、鹽酸、硫酸、硝酸、氫氟酸等。

材質應用：PP、PVDF、HDPE；應用場域：化學廠、鋼鐵廠、汙水處理、海水淡化。

Plastic pumps are produced with high efficiency 3D impeller design and customized design.

Port: φ25-250φ, subject to customized design and production. For conveying highly erosive liquids: Strong Alkaline, Hydrochloric Acid, Nitric Acid, Hydrofluoric Acid, etc. Materials Used: PP、PVDF、HDPE. Application Fields: Chemical Plant, Steel Refinery, Sewer Treatment, Desalination.



### 立式泵浦\_Vertical Chemical Pump (VCL)

產品影片  
Video



從診斷、優化設計到製造，提供符合客戶需求之最佳能效產品。節能減碳為其品牌特色。材質應用：PP、PVDF、HDPE；應用場域：化學廠、鋼鐵廠、汙水處理、海水淡化。

INSHENG provides the best energy efficiency products that meet customer needs from diagnosis, optimized design to manufacturing. Energy saving and carbon reduction are its brand features.

Materials Used: PP、PVDF、HDPE. Application Fields: Chemical Plant, Steel Refinery, Sewer Treatment, Desalination.

# KIMAX

節能創能減碳聯盟  
ESG CARBON REDUCTION COALITION

能源專區  
Energy

## 源達機電科技有限公司

KIMAX ELECTROMECHANICAL INC.

攤位編號 | **S1332**  
Booth No.

KIMAX致力成為一站式工業節能和再生能源服務商，我們專注於冷卻水系統、空壓系統等節能改善並為客戶提供申報以及設備能耗監視，同時也致力於綠能投入包含小型水力發電和海洋能。

KIMAX擁有多項節能產品專利，如用於旋轉設備的永磁聯軸器，通過非接觸式傳動實現節能的同時提供設備保護；水力動能回收部分利用系統中殘餘壓力直接驅動冷卻水塔風扇或發電機；磁直驅馬達取代減速機構，提供低轉速高扭力輸出，提高機械傳動效率並減少維護工作。

KIMAX is committed to becoming a one-stop industrial energy-saving and renewable energy service provider, focusing primarily on energy efficiency in cooling water systems, as well as small hydropower and ocean energy.

Over the years, we have provided professional energy-saving services and equipment to domestic and foreign companies such as Formosa Plastics Group, CSC Group, CHINEI, adani, HONDA, SCG group... to provide enterprises with more options for carbon reduction. KIMAX holds multiple patents and features unique products such as Permanent Magnet Couplings (PMC) for rotary equipment, which achieve energy savings while ensuring equipment protection through non-contact transmission design. We also offer hydrostatic pressure-driven power generation, utilizing the residual pressure in the system to directly drive cooling tower fans or power generators. Additionally, our permanent magnet direct drive motors replace gearbox mechanisms, delivering low-speed, high-torque output to improve mechanical transmission efficiency and reduce maintenance work. We also have a variety of solutions in cooling water tower systems, air conditioning/air compression systems, water pumps, fans, LEDs, etc.

Furthermore, we provide services in small hydropower, marine energy assessment, planning, equipment supply, and construction.



### 永磁直驅馬達\_Permanent Magnet Direct Drive Motor

永磁直驅馬達為低轉速高扭矩馬達，不需要任何減速機構，如應用於冷卻水塔風扇可以直接省略減速齒輪箱和長軸，改為高效率永磁同步直驅馬達並搭配變頻器達到更好的節能，也可以應用於攪拌設備或者球磨機或注塑機設備。

Permanent magnet direct-drive motor (PMDDM) is a low-speed, high-torque motor without any reduction gear mechanism. When we apply PMDDM with a variable frequency drive (VFD) on a cooling tower fan, it can be more efficient and achieve better energy savings by eliminating the traditional reduction gearbox and coupling. We can use PMDDM on mixing equipment, ball mills or injection molding machines to achieve same effect as well.



### 永磁聯軸器\_Permanent Magnet Direct Drive Motor

永磁聯軸器作為非接觸式的聯軸器，常用於水泵，優勢為簡易對心，改造容易，對環境要求小，不需要用電，如負載裕度可以降速則可以節能(機械式變頻裝置)。

PMC is a coupling similar to variable frequency drives, but it can save more energy than traditional variable frequency drives. As a non-contact drive, it can reduce the vibration transmission, increase the tolerance of the misalignment, and also extend the lifespan of bearings and shaft seals.

節能創能減碳聯盟  
ESG CARBON REDUCTION COALITION能源專區  
Energy

## 太丞股份有限公司 Techgo Industrial Ltd. Co.

攤位編號 | S1332  
Booth No.

太丞憑藉著在不同產業及領域上豐沛的經驗，以穩固卓越的專業技術，致力於工業型式冷卻水塔與水處理設備的設計諮詢、安裝組立、維修保養等全方位服務，近年來更專注研發針對舊塔汰舊換新的技術工法，期望提供廣大客戶在升級產業效能的同時達到節約能源的雙贏目的。為了提升自我品質管理，於2013年通過MS CERT對『ISO 9001:2008為品質管理系統(QMS)』認證，更是對從業人員與客戶最有力的品質承諾與保證。

太丞針對冷卻水塔 設計零組件的建立實驗，將冷卻水塔各部件實驗數據整合且優化冷卻水塔系統。此外也可以依據客戶提供現場的相關數據與場地限制進行客製化分析，並利用軟體進行CFD模擬與結構計算來優化設計，確認結構設計的安全性及冷卻水塔性能符合CTI-ATC-105的要求。

From cooling tower design and technical support to Jobsite installation and performance testing, Techgo provides fully integrated services to our customers with abundant experience in different fields and professional assistance. Moreover, we have been working on the technical methods for old tower renovation in recent years, delivering the best outcome to our clients while achieving maximum efficiency and saving energy. For better self-quality performance, we have certification to ISO 9001: 2008 QMS in 2013 to assure our employees and clients of quality commitment.

Techgo sets up the experiment for each component of the cooling tower and integrates the data to optimize the system. Also, we provide services for customized analysis of relevant data or limitations in the job site. Lastly, we use CFD stimulation and structure calculation to make sure the safety of structural design and meet the requirements for CTI-ATC-105.

### 客製化設計橫流型冷卻水塔\_crossflow cooling tower

隨著現代工業的發展，因應各種產業之冷卻水及冷卻水質需求，橫流式冷卻水塔可因應在冷卻水較為高溫與水質較髒的情況使用，如鋼鐵廠、石化廠等等廠區。

The crossflow cooling tower are suitable for steel plants or petrochemical plants where the water is at a relatively higher temperature or with higher turbidity values.

### 客製化設計逆流型冷卻水塔\_counterflow cooling tower

逆流式冷卻水塔可使用高效率薄膜式填料，並且以較高的冷卻效率，在冷卻水水質較乾淨的情況使用，如半導體廠、面板廠等等廠區。

The counterflow cooling towers are suitable for semiconductor plants or panel factories where the water has high clarity.

連結網址 | <http://www.techgo.com.tw>



Super-Air

## 能揚興業有限公司

Super Air Compressor Technology Co., Ltd.

節能創能減碳聯盟  
ESG CARBON REDUCTION COALITION

能源專區  
Energy

攤位編號 | **S1332**  
Booth No.

能揚自1988年以技術服務創業至今，致力於空壓系統節能服務。舉凡空壓機設備相關需求都能針對個別使用者提供節能改善建議及執行。自2001年研發第一代節能排水器起，改善許多使用者冷凝水排放問題，並開始將“永續經營”概念透過產品傳遞推廣。後於2011年改版升級，並正式更名為Super Trap球閥型無耗氣自動排水器，現不僅在台灣市場小有名氣，也廣受海外消費者的喜愛，外銷至亞洲、歐洲等16個國家。

Super Air established in Kaohsiung in 1988, and have been committed to energy-saving of compressed air system for 35 years. We provides energy- saving solutions, products and services for air compressor systems. Amounts of cooperates guiding the production factory to improve power saving.

Achievements include China Motor Corporation Supply Chain Energy Conservation Advisory, Formosa Plastics Group Air Compression System Energy Conservation Consultant, and guidance for several manufacturers to obtain ISO50001 certification, etc.

Main products include high-efficiency air compressors, dryers, air tanks and filters, as well as made in Taiwan energy-saving drains, Super Trap. In addition to being affirmed and loved by many well-known companies in Taiwan, they are also exported to 16 countries, including Thailand, Indonesia, Malaysia, Philippines, Japan, Dubai, Turkey, Germany and the United Kingdom, etc.



### KTEC雙級螺旋式空壓機\_ KTEC 2-Stage Screw Air Compressor

Ktec空壓機高效率系列以二段壓縮設計，使空壓機主機在最優異的尖端速度下運轉，壓縮比降低使回風更少，操作溫度降低，壓縮效率大幅提升單位產氣耗能更低。機體特殊設計，長壽型組件設計，運轉週期加長，減低維護工時、頻率及環境污染。相同馬力更多的風量，運轉和壓縮效率高，提升企業競爭力與效能！

Super Air starts business from technical service for compressor system. We provide customized resolution case by case, which have been accepted and recognized by customers and government departments.

### Super Trap球閥型無耗氣自動排水器\_ Super Trap Motorized Ball Valve Zero Air Loss Condensate Drain

產品影片  
Video



能揚Super Trap節能排水器突破傳統排水器的限制，克服環境影響變數，提供全時穩定的操控性能。使用不鏽鋼材質，提供全方位的保護功能，降低腐蝕物影響，有效延長使用壽命。針對一般排水器易堵塞缺點，Super Trap球閥內部排水道直徑高達1/2"，即使鐵屑也可以排出，不需另加Y型過濾器。同時，本產品無壓力仍可作動排水，投資回收年限平均僅0.5年！

Super Trap, your best condensate solution!

There are four outstanding advantages which are the breaking point to resolve all the issues of traditional condensate drains. Average ROI 6 months !

連結網址 | <http://www.super-air.com.tw/>







節能創能減碳聯盟  
ESG CARBON REDUCTION COALITION

能源專區  
Energy

## 恩泉照明科技有限公司

Glory Spring Lighting Technology Co., Ltd.

攤位編號 | **S1332**  
Booth No.

公司使命：照明再節能--比傳統LED照明在省電~40%；智慧照明、綠色產品—更長壽命、更低碳足跡。  
DLS類鑽超高光效發光技術，結合智能物聯，專門提供『智能照明方案』之產品研發、生產和銷售服務，智能照明方案包含：道路、工業、商業、辦公等照明應用領域。  
結合最新進IoT技術，為客戶打造最聰明便利且高品質的全系列照明解決方案。

Company mission: New lighting technology saves 40% more energy than traditional LED : Smart lighting, green products (longer lifetime & lower carbon footprint ).

DLS (diamond like materials) lighting technology, combined with the intelligent IoT, specializes in providing product development, production and sales services of "intelligent lighting solutions". The intelligent lighting solutions include: industry commercial, office lighting applications.

Introduce the advanced IoT technology, to create the most intelligent, convenient and high-quality full range of lighting solutions for customers.



### 燦光節能燈管\_Advanced Light Tube

先進T8燈管：4尺 12W >160 lm/W取代 傳統LED燈管20W ~ 100 lm/W；再省電 > 40%

各式燈管光源類型燈具：比節能標章燈具更省電

Advanced T8 tube: 4 feet 12W replaces traditional LED tube 20W; save electricity > 40%  
We offer various types of luminaires : more energy-saving than most of LED luminaires available in the market



### 燦光節能平板燈\_Advanced Panel Light

燦光平板燈2尺\*2尺 21W 取代 傳統LED 40W平板燈，再省電 > 47%；比節能標章平板燈25W，更省電16%。

產品取得「環保標章」，更低碳足跡，產品更環保。

Advanced panel light "2 feet \* 2 feet 21W" replaces traditional LED 40W panel light, and saves 47% more electricity; compared to LED 25W panel light, it saves 16% more electricity.

The product has obtained the "environmental protection certification", which has a lower carbon footprint and is more environmentally friendly.

連結網址 | <http://www.cmetech.com.tw/>



節能創能減碳聯盟  
ESG CARBON REDUCTION COALITION

能源專區  
Energy

## 思納捷科技股份有限公司 INSYNERGER TECHNOLOGY CO., LTD.

攤位編號 | **S1332**  
Booth No.

思納捷成立於2017年，提供能源管理與淨零碳排完整解決方案，從碳健檢、節創儲能與整合調度，直到碳權交易，協助企業達到淨零與永續目標。

產品以AIoT物聯網平台為核心，提供20種以上隨選即用能源解決方案，如電能與需量管理、空調冰機、儲能系統、充電樁管理、組織碳健檢、等，滿足企業節、創、儲能的能源管理需求。系統導入全球累積逾800案場、全台11個工業園區、管理超過四萬台空調與冰機，平均節費10%以上。

InSynerger Technology Co., Ltd. is a company that offers comprehensive solutions for smart factories and smart industrial parks, as well as equipment connectivity services. It was established in 2017 as a spin-off from the In-Snergy team of the Industrial Technology Research Institute.

Dr. Chuang, the founder, leads the team in developing the "InSynerger AIoT Platform," which is Taiwan's pioneering cloud platform supporting the connectivity of tens of millions of devices. With a focus on energy management and cloud AI technology, InSynerger is charting a new course for Taiwan in the software market, and it marks the first step in changing the world.

InSynerger provides 24-hour energy and equipment monitoring services and continuously pushes the boundaries of innovation by combining its existing IoT core technology with cloud management platforms, deep machine learning, and big data analysis to create a "24-hour cloud-based AI manager" for factories and industrial parks.

### 思納捷 AIoT 應用平台

提供20種隨選即用解決方案，700種以上聯網裝置，並深化應用於智慧工廠、校園、大樓及園區一次供能服務。包含能源軟體整合至最上層應用開發與數據分析一站式服務。

#### 應用場域



#### 核心產品

|        |       |        |           |            |
|--------|-------|--------|-----------|------------|
| 電能管理   | 智慧車庫  | 智慧路燈   | Dashboard | API Server |
| 電能管理   | 水質監測  | 空污AI預測 |           |            |
| 室內照明   | 儲能管理  | 空調節能   | AI智慧分析    | 視聽引擎       |
| 空調系統   | 智慧配電盤 | 清水抽盤   |           |            |
| 太陽光電   | 台電輔助  | 用電大戶   | OMA智慧管理   | 維運管理       |
| 其他解決方案 |       |        |           |            |

#### 物聯網裝置



### In-Energy 智慧能源AI總管 In-Energy Smart Energy AI Manager

產品影片  
Video



In-Energy智慧能源AI總管是一站式節能、創能、儲能和充電平台，監測能源消耗情況，提供節能建議和優化方案，同時還支持創能和儲能技術的應用，以及充電樁管理。

In-Energy is a one-stop energy saving, energy creation, energy storage and charging platform that monitors energy consumption and provides energy saving suggestions and optimization solutions.

### In-ESG 淨零管理平台 In-ESG Net Zero Management Platform

產品影片  
Video



In-ESG淨零管理平台提供溫室氣體盤查、節能、碳權和碳交易功能，提供溫室氣體排放監測和管理工具，協助企業評估和控制其碳足跡。

In-ESG net-zero platform offers GHG inventory, energy savings, carbon rights, trading, monitoring, and management tools, aiding firms in assessing and reducing their carbon footprint.

連結網址 | <https://insynerger.com/>





亞氫動力股份有限公司

## 亞氫動力股份有限公司 Asia Hydrogen Energy Corp.

能源專區  
Energy攤位編號 | S1428  
Booth No.

亞氫動力立足台灣、深耕台灣、接軌國際。我們致力於綠色分散式發電系統的開發與應用。啟動台灣能源革命是我們全體同仁的使命。我們專注於發展更環保、更高效率的能源系統。進而改變既有能源的產生、運送及消費模式。

亞氫動力研發團隊成員擁有超過20年的燃料電池移動式載具與定置型發電系統的經驗，與全球知名的企業緊密策略合作，開發可靠、穩定、高效能的燃料電池系統產品。提供完整的燃料電池發電系統與綠電解決方案，共同創造氫能經濟環境。

AHE is based in Taiwan and is committed to developing and applying green decentralized power generation systems. We focus on the development of more environmentally friendly and efficient energy systems.

With over 20 years of experience in fuel cell mobile carriers and stationary power generation systems. We provide complete fuel cell power generation systems



### 家用熱電燃料電池系統\_EneFarm Fuel cell System

業界最高使用燃氣效率: 97%

家用熱電燃料電池系統可 (1) 降低電費支出 (2) 降低碳排放 (3) 穩定電網, 緊急備用電源 (3) 90,000 小時產品可靠度

Champion Fuel efficiency is up to 97% in industry

Enefarm can reduce electricity bill, carbon emission and provide emergency backup power, then, support 90,000 hours of product operation



### 工業餘氫燃料電池發電站\_

#### Industrial waste hydrogen fuel cell power station

全台第一座應用工業餘氫之燃料電池發電站

應用餘氫之燃料電池電站可: (1) 減少契約容量; (2) 減少碳排增加碳權; (3) 消化工業餘氫。

The first fuel cell power station using industrial waste hydrogen in Taiwan.

The industrial waste hydrogen fuel cell power station can reduce contract capacity, reduce carbon emissions

連結網址 | <https://www.ah2e.com/>



## 大葉光電股份有限公司 TAI-YEH OPTRONICS CO., LTD.

能源專區  
Energy

攤位編號 | **S1434**  
Booth No.

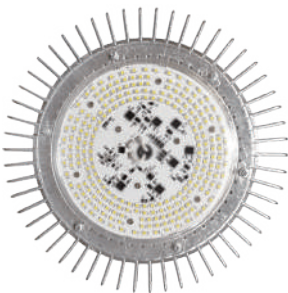
「大葉光電股份有限公司」為國內高功率LED工業燈具技術的先驅者。

近年因應國際客戶落實環境永續政策，邁向更具社會責任和環境保護意識(ESG)的趨勢。我們投入永續循環、低碳製造之無電容LED DoB天井燈具產品。此產品運用獨家專利IC及散熱鰭片技術，除減省傳統變壓器與電容器元件，提升材料之再利用性及回收性外，大幅提升電源轉換效率及燈具散熱效果，真正達到節能減碳及循環經濟之效益。

我們所有產品均通過CNS全系列驗證/BSMI登錄以及SGS光束維持率檢測，品質穩定有保證。未來將進一步整合太陽能與照明系統，在淨零路徑中成為企業的最佳後盾。

TAI-YEH is a pioneer in high-power LED industrial lighting technology in Taiwan. We focused on providing durable, energy-efficient, and carbon-reducing solutions for high-temperature operational environments in factories by offering high-power LED industrial lighting. We are committed to safeguarding the planet and have invested in sustainable, low-carbon manufacturing, particularly in our capacitor-less LED Driver-On-Board (DoB) high-bay lighting products. This innovation not only eliminates the need for traditional transformers and capacitors, enhancing material reuse and recyclability, but also addresses the environmental pollution and recycling challenges associated with traditional lighting fixtures.

All our products can at least provide company 25-85% greater energy savings compared to equivalent products from competitors. We will further integrate solar energy with lighting systems, continuously offering innovative green industrial lighting products and services, assisting businesses in their low-carbon transition and becoming their best support in the journey to achieve net-zero emissions. Simultaneously, our product applications have expanded to encompass residential, educational, industrial, and commercial settings, including large indoor and outdoor sports venues, and offices.



### DOB系列燈具\_DoB Series Luminaires

符合循環經濟、環保標章、溫室氣體盤查、碳足跡。

Compliance with circular economy, environmental certification, greenhouse gas inventory, carbon footprint.



### TY高效系列燈具\_TY Series Luminaires

高光效高保固搭配20項以上的認證。

High efficacy, high durability, coupled with over 20 certifications.

連結網址 | <https://tyoptronics.com.tw/>





加雲聯網

Intelligent Cloud Plus

## 加雲聯網股份有限公司

### Intelligent Cloud Plus

能源專區  
Energy

攤位編號 | **S1518**  
Booth No.

加雲聯網，於2017年成立，以資深電力系統專家為核心，組成技術團隊。於2019年率先拿到台灣第一張61850-10 Server 技術認證，這一通訊標準專為能源物聯網而設計，也是整合電力設施和系統的關鍵技術。加雲憑藉著深厚的 IEC 61850知識，結合OT、IT和人工智慧技術，以及豐富的工程經驗，成為了台灣在電網自動化方面的領導品牌。代表性案例包括台電變電所、大型太陽能、大型儲能、離岸風電自動化以及輔助服務投標管理平台等。

我們的核心策略，是將電控、通訊、軟體、大數據分析及AI最佳化技術融為一體，將各種電力設施與資源相互串連、整合、以及最佳化。在智慧電網的發展中，加雲扮演了重要角色，是通訊與電控的整合者、軟體的創新開發者、數據的精準分析者，以及虛擬電廠平台的建造者。

我們致力於開創能源管理的最大價值，包括智慧電網、電力輔助服務、電力交易、需量管理、尖峰與離峰能量轉移、充電樁應用等。迎接新能源時代的來臨，加雲期許成為新能源時代的整合專家，為客戶提供最專業技術能力與服務。

Intelligent Cloud Plus(ICP), established in 2017, comprises a team with extensive experience in control, communication, and system integration. In 2019, we achieved a landmark – becoming the first in Taiwan to secure the IEC 61850 certification. Tailored for energy IoT, this communication standard is the universal language of power facilities and systems, pivotal for their integration. With a profound understanding of IEC 61850, OT, IT, AI, and a wealth of engineering experience, ICP emerged as Taiwan's beacon in grid automation. Our portfolio boasts emblematic projects, encompassing T&D substations, large-scale solar, significant storage, offshore wind automation, and ancillary service bidding management platforms.

Central to ICP's strategy is the fusion of electrical control, communication, software, big data analytics, and AI optimization, seamlessly interlinking and optimizing a myriad of power facilities and resources. As stewards of the Smart Grid's evolution, we wear many hats - integrators of communication and control, innovators of software, precision data analysts, and architects of virtual power plant platforms.

We are tirelessly committed to unlocking the paramount value in energy management, spanning smart grids, power ancillary services, energy trading, demand management, peak and off-peak energy transition, and EV charging applications. Welcoming the dawn of a new energy era, ICP aspires to become an expert in integrating new energy solutions, offering customers the highest level of technical expertise and services.

### 虛擬電廠雲平台\_iVPP Platform

在虛擬電廠中，電力調度是極具挑戰的任務，而做到電力調度自動化是一種利用先進技術，如人工智慧(AI)和物聯網(IoT)技術來管理電力供應和需求的系統。它能夠即時監測能源生產、儲存和消耗，並通過智能演算法優化能源分配，以確保網絡穩定運行並最大化效率。這種技術有助於提高能源利用率、降低成本，同時也能夠促進可再生能源的整合和可持續發展。

In a virtual power plant, power dispatch is a highly challenging task, and achieving automated power dispatch is a system that utilizes advanced technologies such as Artificial Intelligence (AI) and Internet of Things (IoT) to manage power supply and demand. It can monitor energy production, storage, and consumption in real-time and optimize energy distribution through intelligent algorithms to ensure the stable operation of the network and maximize efficiency. This technology helps improve energy utilization, reduce costs, and facilitates the integration of renewable energy sources and sustainable development.



連結網址 | <https://www.icp-si.com/>





## 愛德華先進科技股份有限公司 Edwards Technologies Ltd.

能源專區  
Energy

攤位編號 | **S1530**  
Booth No.

Edwards 擁有 100 年以上的悠久歷史，不僅是真空與廢氣處理領域的全球領導者，更是全球千萬個關鍵應用客戶的首選合作夥伴。真空必須應用於多項領域，如發電、製鋼、模擬太空中嚴苛環境與高能物理研究等等，在任何需要真空技術的地方，您都會發現愛德華占有一席之地。無論是醫療、手機、電腦、咖啡豆、汽車或是化學領域，我們都改變了大眾的生活並確保創新的可持續性，同時協助客戶維持競爭優勢、經營卓越。Edwards 隸屬阿特拉斯科普柯集團 (Atlas Copco) 是來自瑞典的工業生產力解決方案供應商。Edwards Taiwan 於 1998 年成立，主要客戶遍及全台科學園區及傳統產業；業務範圍涵蓋半導體、真空、平面顯示器、太陽能、LED 等。

Edwards is a global leader of vacuum and abatement. We are proud to lead the industry, pushing the boundaries of science to deliver innovative products which are intrinsic to everyday life, working in partnership with our customers and continually setting new standards.

At Edwards, we are committed to minimising the negative environmental impacts of semiconductor manufacturing and we strive to minimise the impact on the natural world and environment we live in now and for our future.

With over 100 years of rich heritage, Edwards is the partner of choice for tens of thousands of customers in critical applications around the world. Vacuum is required in diverse sectors, from the generation of power to the production of steel, to the challenging environments of space simulation and high energy physics research.

Everywhere you find vacuum requirements, you will find Edwards leading the way. From medicines to mobile phones, from computers to coffee beans, to cars and chemicals, we pride ourselves in making a difference to people's lives. And we do it responsibly, ensuring that we innovate sustainably, whilst helping our customers to maintain their competitive advantage and operational excellence.

Edwards is part of the Atlas Copco Group, a Sweden-based provider of industrial productivity solutions.



### GXS 乾式螺旋真空泵浦 GXS Dry Screw Vacuum Pump

產品影片  
Video



GXS 乾式螺旋真空泵浦，將真空效能提高到一個新的層級，憑藉獨特的螺旋技術和世界領先的高效傳動裝置，可實現先進的溫度控制和較長的維修間隔，讓您在未來許多年受益於一流的抽氣速度和低運作成本，智慧的機載控制面板使您能夠對生產過程進行自動化控制，不僅擁有先進的軸封技術與泵浦機械設計，也可為您的應用提供客製化解決方案。

GXS Dry Screw Vacuum Pumps - Our new GXS dry pumps take vacuum performance to the next level. The GXS series can be customized to deliver an optimal performance in a wide range of applications.



### LR 系列水封式真空泵浦\_Liquid Ring Pumps

LR 系列水封式真空泵浦，包括 LR1A 和 LR1B 單段式機型，可以耐受顆粒，並且只需最少的維護和最低的噪音即可運行，適用於電力、化學和製程產業中的粗真空應用。對於製程市場的客製化水封式泵浦與混合式真空系統，愛德華在設計、工程、組裝及測試方面皆具備多年經驗，並能針對各種製程應用提供相應設備，以滿足客戶需求。

LR Series Liquid Ring Vacuum Pumps - For rough vacuum applications in the chemical and allied process industries.


**極東貿易株式會社**

## 日商極貿股份有限公司台北分公司

### KYOKUTO BOEKI KAISHA, LIMITED, TAIPEI BRANCH

 能源專區  
Energy

 攤位編號 | **S1533**  
Booth No.

敝公司KBK創立於1947年，以工程專業為特色之商社。提供客戶技術支援為基本觀念，貫徹滿足客戶所需的經營理念，並提供世界最先端科技技術。增加附加價值等方式，多樣化的滿足客戶需求。代理商品涵蓋眾多，製鐵、重電、化學、汽車等基幹產業，資源開發/環境相關，通信/電子機器相關，以及生活相關等各種領域。作為客戶的最佳搭檔，如何做到盡善盡美的服務是我們永遠的目標，永不言棄。

Since our establishment in 1947 as an engineering trading company that mainly deals in machinery, Kyokuto Boeki Kaisha, Ltd. has strived to provide advanced technologies and products in response to the needs within Japan and abroad.

We are authorized lots of goods related to Basic Industries like Steel & Metal, Energy, Chemical, and Vehicle and kinds of machinery for New Energy/Environment Development and IT Industries.

As the best partner for customers, we always do our best to provide the best service to customers.

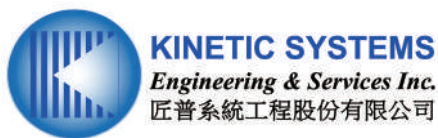
### 球式熱交換器自動清洗裝置“XAC” ball type automatic heat exchanger cleaning system “XAC”

 產品影片  
Video


球式熱交換器自動清洗裝置“XAC”是一個空調冷凍機管殼式熱交換器的自動清洗系統。皆由保持熱交換導熱管的常時清潔，可達到優異的節能效果、降低維護成本和延長設備壽命。

“XAC” is a system that automatically cleans shell & tube type heat exchanger(s). significant energy saving, maintenance cost reduction, and equipment life extension can be achieved.


 連結網址 | <https://www.kbk.com.tw/>



## 匠普系統工程(股)公司

Kinetic Systems Engineering & Services; Inc.

能源專區  
Energy

攤位編號 | **S1535**  
Booth No.

匠普系統工程股份有限公司成立於1995年,提供磁懸浮鼓風機、磁懸浮透平真空泵、磁懸浮空壓機、採用磁懸浮軸承和高速永磁同步電機,提供服務包含從使用者的需求及問題探討,產品規格製定,系統設計,預算費用評估,到合約簽訂,零部件採買,成套系統組裝,工廠測試,裝箱出貨,再到現場安裝指導及對用戶實施教育訓練,這一貫化的標準作業流程,都由相關專責的專業人員負責執行,內部品質管控更獲得國際ISO-9001:2008的認證,給客戶最實在最值得信賴的服務保障。

Kinetic Systems Engineering & Services; Inc. found in 1995, we provides Maglev turbo blower, Maglev turbo vacuum pump, Maglev turbo air compressor, utilizing magnetic levitation bearings and high-speed permanent magnet synchronous motors, developed with leading global turbo machinery design technology. We From evaluating and designing a complete system, making proposal with budget and schedule details, preparing and executing a contract, to delivering and installing the system with user trainings and services, our goal is to make sure that our clients can rely on our expertises and experiences. We have received the international ISO-9001:2008 certification for our services and quality control.

### 磁懸浮鼓風機,磁懸浮透平真空泵,磁懸浮空壓機

### Maglev turbo blower, Maglev turbo vacuum pump, Maglev turbo air compressor

產品影片  
Video



- (1) 能源利用效率較傳統鼓風機低30-40%,比多級離心風機低20%以上,比單級高速風機低10-15%。
- (2) 減少噪音水平低於80分貝
- (3) 採用PLC和GPRS/3G進行實時監控。包含自動控制氣流、壓力和速度。如果出現故障,可進行遠程維護和調整。
- (4) 磁懸浮軸承消除了接觸和摩擦,無需潤滑。模組化的安裝結構簡化了設置,日常操作僅需更換濾芯,降低維護工作。

- (1) High-speed magnetic motor cuts energy 30-40% vs. Roots blowers.
- (2) Noise <80 dB.
- (3) Auto control, and remote maintenances.
- (4) Magnetic bearings lower maintenance.



連結網址 | <http://www.kinetic.com.tw/>





## 日成科技股份有限公司

Optimization Solutions Asia Engineering Co. Ltd.

能源專區  
Energy

攤位編號 | S2409  
Booth No.

日成科技是一家專注於再生能源的系統整合商(SI)，提供沼氣、地熱最佳解決方案、各式工業應用儀器(如：振動儀、氣體流量計、氣體及水分析儀器等)、現場整體控制系統以及遠程監控、分析和診斷(RMAD)服務；除了代理國外儀器設備，日成科技還擁有自主開發的產品與技術。

日成科技以促進綠色永續發展、降低碳足跡、提高企業資產績效為使命，集結國內外最佳合作夥伴，為客戶提供最優化的再生能源應用服務解決方案。

OSA (Optimization Solutions Asia Engineering Co. Ltd.) is a system integrator (SI) focusing on renewable energy, providing the best biogas and geothermal solutions, various industrial application instruments (such as vibration meters, gas flow meters, gas and water analysis instruments, etc.), on-site overall control system and RMAD (remote monitoring, analysis and diagnosis) services. In addition to instruments and equipment distribution, OSA also has self-developed products and technologies. With the mission of promoting green and sustainable development, reducing carbon footprint, and improving corporate asset performance, OSA gathers the best global partners to provide customers with the most optimized renewable energy application service solutions.

### ORC地熱發電系統\_ORC Geothermal Power System

產品影片  
Video



Orcan efficiency Pack 是隨插即用的小型 ORC 系統。具模組化與貨櫃一體式設計。整合度高，可優化客製，靈活部署。它採用高品質零件精準密合，可靠，耐用，具低維護需求和最短停機時間。大修期為 15 年。

Orcan efficiency Pack is a small plug-and-play ORC system, modularized and completely integrated in one shipping container. It's flexible, reliable, compact, high-efficiency and low lifecycle-cost.

### 沼氣發酵系統\_Biogas Fermentation System

日成科技針對處理物料特性的不同，提供最適化的沼氣發酵系統，獲得最穩定且最大化的沼氣產量，配合優化的沼氣預處理系統，使整體沼氣發電系統稼動率最大化，並配合營養回收系統，實現整廠零排放。

OSA provides optimized biogas fermentation systems, biogas pretreatment systems, nutrient recovery systems to improve the utilization of the CHP operation and achieving zero wastewater emissions.



連結網址 | <http://www.osa-international.com>



## 台灣音維舒環測股份有限公司 Envirosuite Taiwan Limited

污染防治專區  
Pollution Prevention

攤位編號 | **S1534**  
Booth No.

Envirosuite台灣音維舒環測股份有限公司(澳洲上市公司:EVS)是環境智能領域中的全球領銜者,在15個國家設有分公司,且受到全球航空業、礦產業、工業、廢棄物處理產業和水利業的頂尖營運商信賴。我們的專利軟體結合了最前端的科學、創新的預測科技,以及各產業的專業知識,幫助客戶最優化地營運,同步符合規定以及管理其對環境的影響。

We are the world leading provider of environmental intelligence.

At Envirosuite, we harness the power of environmental intelligence so industries grow sustainably and communities thrive.

For decades, Envirosuite has been at the forefront of environmental intelligence solutions. With origins starting in 1990, Envirosuite is an entity that stems from the combination of air quality and meteorology consultancy (Pacific Environment), real-time and predictive technologies (Envirosuite) and world leading innovation in aviation (EMS Briel & Kjaer).

Thanks to our heritage and DNA, today's Envirosuite is the global leader with capabilities across Air, Noise, Water and Vibration; more than a dozen offices across five regions home to more than 250 staff.

A pioneer of EI solutions—Envirosuite—has a pedigree of over 3 decades working in the odour management space and assisting industrial operations in the community trust through stakeholder engagement. Their environmental intelligence platform offers real-time monitoring, visualisation of exceedance alerts, and emissions modelling for waste and wastewater treatment facilities.



### OMNIS環境智能管理系統\_Omnis

產品影片  
Video



OMNIS環境智能管理系統是建基於AWS雲端的管理系統,能整合空氣品質,水質,震動,噪音及廠內操作運行SCADA系統的環境數據管理及顯示平台。

Omnis is cloud-based environmental intelligence software designed to support operators with advanced insights to mitigate site emissions, plan for weather risk and engage with stakeholders.



### ANOMS

產品影片  
Video



ANOMS是目前全球最多主要機場所使用的噪音管理系統,能根據噪聲模型,利用從機場現有環境監測系統收集的相關航迹和航班的歷史數據,導出數據到由FAA(美國聯邦航空局)研發的AEDT或INM噪聲預測計算模型軟件而生成準確一致的噪聲等高線圖,然後噪聲等高線圖可以在ANOMS軟體上展示。

A cloud-based software designed to support detailed airport noise management. Powerful analytical and reporting capabilities can track noise abatement procedures as well as build community support.

連結網址 | <https://envirosuite.com/>



地球復原行動聯盟  
Earth Restoration Action Alliance

污染防治  
Pollution Prevention

## 社團法人臺灣能源與環境發展協會 Taiwan Energy and Environmental Development Association

攤位編號 | **S2302**  
Booth No.

以「運用水能源、自然能量，從教育培訓出發，順應自然、創新科技，使環境、空氣、氣候獲得真正改善。達到人類與環境共生、共存之雙重效益；營造健康社會，使萬物能永續發展，以務實行動讓地球降溫X°C」為宗旨之非營利全國性公益社會團體。

To "use water energy and natural energy, start from education and training, conform to nature, innovate technology, and truly improve the environment, air, and climate. Achieve the dual benefits of symbiosis and coexistence between humans and the environment; create a healthy society so that all things can be sustainable Development, a non-profit national public welfare social organization with the purpose of "cooling the earth's temperature by X°C with pragmatic actions".

### 舉辦活動、論壇\_Organize events and forums

- ▲世界蓋婭日活動
- ▲植樹節-科技植樹
- ▲公益勸募活動
- ▲ESG相關論壇
- ▲World Gaia Day Events
- ▲Arbor Day-Tree planting with technology
- ▲Charity fundraising activities
- ▲ESG related forums

產品影片  
Video



### 舉辦課程\_Hold a course

- ▲國家iCAP職能認證課程- 全外氣自然能轉換系統-施工安裝人員職能課程
- ▲全外氣自然能轉換系統-行銷推廣職能認證、推廣人員實務研習班、節能顧問師實務研習班
- ▲CSR & ESG 報告書編列原則研討會暨國際認證培訓專班
- ▲組織溫室氣體內部查證員能源自主初階管理師認證課程
- ▲National iCAP functional certification course - Total External Air eXchange Nature Energy Conversion System - functional course for construction and installation personnel
- ▲Total External Air eXchange Nature Energy Conversion System-marketing and promotion function certification, promotion staff practical workshop, energy conservation consultant practical workshop
- ▲Seminar on CSR & ESG Report Preparation Principles and International Certification Training Class
- ▲Organize the Greenhouse Gas Internal Verifier Energy Independent Junior Manager Certification Course



連結網址 | <https://www.facebook.com/profile.php?id=100067087453489&mibextid=ZbWKwL>



地球復原行動聯盟  
Earth Restoration Action Alliance

污染防治  
Pollution Prevention

## 弘惠國際水能源股份有限公司 Hung Hui International Water Energy Co., Ltd

攤位編號 | S2302  
Booth No. | S2302

我們堅信，住宅的品質不在其華麗的外表，而是在我們與家人每天生活的空間裡。我們提供綠色空間整合服務，包含友善照明、友善空間、友善空氣、友善飲水。並落實順應自然，在地平衡的理念，將人類於建築物內活動所需能源及產出熱能配合環境做整體規劃運用，以最節約方式達到舒適效益。

We firmly believe that the quality of a home is not about its gorgeous appearance; But in the space where we live every day with our families. We provide green space integration services, including friendly lighting, friendly space, friendly air, and friendly drinking water. We also implement the concept of adapting to nature and balancing the local environment, and make overall planning and utilization of the energy required for human activities in the building and the generated heat energy in conjunction with the environment, so as to achieve comfort benefits in the most economical way.

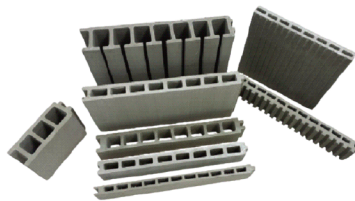


### 冷暖熱水空調系統

The air conditioning system has the function of providing air conditioning, heating and hot water

- 混合式綠能策略
- 減碳=423棵樹
- 充分利用離峰電力再享六折，有感降低電費
- 獨家技術突破傳統缺點
- 隨場域大小調整設計
- -20°C仍正常運行
- 排除腐蝕問題並提升效能
- 系統可滿足冷凍、空調、熱水、工業冷卻等各項需求

- Hybrid green energy strategy.
- Carbon reduction = 423 trees.
- Make full use of off-peak power and enjoy an additional 40% off, thus lowering your electricity bill.
- Exclusive technology breaks through traditional shortcomings.
- Adjust the design to the size of the site.
- Still operating normally at -20°C.
- Eliminate corrosion problems and improve performance.
- The system can meet various needs such as refrigeration, air conditioning, hot water, industrial cooling, etc.



### 中空水泥板\_Extruded Hollow Cement Panels

- 強度及耐衝擊：CT擠出成型輕質中空水泥板抗壓強度與耐衝擊測試符合CN11699及BS5234標準，適用於一般建築物外牆、隔音牆、地下室複壁等。
- 耐火與耐熱性：通過內政部建築新技術、新工法、新設備及新材料認可通知書之耐火測試，適用於建築物之外牆與分間牆。
- 阻隔冷熱效果：中空構造之空氣層具有優的隔冷及隔熱果，能節省能源，適用於內、外牆、地下室複壁、工業用斷溫工程等。
- 隔音消音效果：通過ASTME413試，適用於機場、房或道路附近建物之內外牆、隔音牆。
- 材質輕量化：重量為一般材質的1/2~1/3重量，降低樓層負，減低建成本。
- 可廣泛使用：可精確安裝結水電系統及消防系統，可做為外牆、牆、隔音牆、室內分間牆、二重壁等。

#### ●Strength and impact resistance:

The compressive strength and impact resistance test of CT extrusion lightweight hollow cement board complies with CN11699 and BS5234 standards, and is suitable for general building exterior walls, sound insulation walls, basement compound walls, etc.

#### ●Fire resistance and heat resistance:

It has passed the fire resistance test of the Ministry of Interior's approval notice for new construction technologies, new construction methods, new equipment and new materials, and is suitable for exterior walls and partition walls of buildings.

#### ●Heat and cold blocking effect:

The air layer of the hollow structure has excellent cold and heat insulation effects, can save energy, and is suitable for interior and exterior walls, basement composite walls, industrial thermal insulation projects, etc.

#### ●Sound insulation and silencing effect:

It has passed the ASTM E413 test and is suitable for interior and exterior walls and soundproof walls in buildings near airports, houses or roads.

#### ●Lightweight material:

The weight is 1/2~1/3 of the weight of ordinary materials, which reduces floor load and construction costs.

#### ●Can be widely used:

It can accurately install water, electricity and fire protection systems, and can be used as exterior walls, walls, sound insulation walls, indoor partition walls, double walls, etc.



威浦斯科技股份有限公司  
WEPLUS HIGH-TECH CORPORATION

地球復原行動聯盟  
Earth Restoration Action Alliance

污染防治  
Pollution Prevention

## 威浦斯科技股份有限公司 WEPLUS HIGH-TECH CORPORATION

攤位編號 | S2302  
Booth No.

威浦斯科技是建築物能源與環境系統性規劃專家，提供建築物「呼吸系統」專業規劃服務，並以「讓地球溫度下降X°C行動」為公司的經營主要方針。產品應用專利自然能量運用，除了可解決現今建築物室內空氣品質不良、空氣交叉污染及外環境污染源入侵室內等問題，更是使用者獲得健康、防疫、節能的室內空間最佳解決方案，若全球使用15台氧好系統減碳量等於幫地球再種了一座大安森林公園，是企業在追求ESG行動的最佳合作夥伴。

Weplus High-Tech Corporation is positioned as an expert in overall system planning of building energy and environment. It constructs a professional planning of the building's "respiratory system", and "Global Warming Drop by X°C" is our Vision. We can solve the problems of poor indoor air quality, cross-pollution of air, and intrusion of external environmental pollution sources into buildings, we provide Healthy, Sustainable and Epidemic Prevention indoor environment services, when using 15 "Total External Air eXchange Nature Energy Conversion System" are reducing carbon like build another Daan Forest Park, we are the best partner when your company put ESG into practice.



### 全外氣自然能轉換氧好系統

### Total External Air eXchange Nature Energy Conversion System

- 空氣洗淨，除異味淨化室內外
- 防疫場域，降低致病氣膠濃度
- 降溫節能，自然能轉換無耗材
- 清新有氧，舒適的類自然環境
- 友善環境，永續經營(SDGs、ESG)
- Air cleaning: deodorizing and purifying indoor and outdoor
- Epidemic prevention field: reduce the concentration of pathogenic aerosols
- Cooling and energy saving, natural energy conversion without consumables
- Fresh aerobic: comfortable natural environment
- Friendly environment: sustainable management (SDGs, ESG)

產品影片  
Video



連結網址 | <http://www.we-plus.com.tw/>



建佳科技股份有限公司  
Streber-Tech Co., LTD

地球復原行動聯盟  
Earth Restoration Action Alliance

污染防治  
Pollution Prevention

## 建佳科技股份有限公司 Streber-Tech Co., Ltd

攤位編號 | S2302  
Booth No.

建佳科技於2003年創立。創業初期以提供電子廠、發電廠及石化業等產業進口設備零組件為主要事業。為滿足客戶需求及公司成長，從初步的技術服務，針對現有設備改善/設計/製造/升級，到提供整部機台客製化設計開發，進而購置設備自行設計開發製作模治具。

為迎接工業4.0世代的到來，於2016年大力投資及開發相關技術並成為多家領導大廠的策略夥伴，以精進的技術及不斷創新，推出符合客戶需求之產品，為顧客創造新價值；另斥資添購設備和量測儀器，以滿足更多產能需求，提供高品質及高產能的服務，2018年起至今技轉工研院多項技術及產品並且導入各種ESG解決方案，期許在數位轉型及綠能轉型的道路上能替未來環境與全球永續發展盡一份力。

Streber-Tech Co., LTD was founded in 2003. In the early days of its business, its main business was to provide imported equipment and components for industries such as electronics factories, power plants, and petrochemical industries. In order to meet customer needs and company growth, we provide initial technical services, improve/design/manufacture/upgrade existing equipment, provide customized design and development of the entire machine, and then purchase equipment to design, develop and produce molds and jigs by ourselves. In order to welcome the arrival of the Industry 4.0 generation, we invested heavily in and developed related technologies in 2016 and became a strategic partner of many leading manufacturers. We use advanced technology and continuous innovation to launch products that meet customer needs and create new value for customers; in addition, We have invested in purchasing equipment and measuring instruments to meet more production capacity needs and provide high-quality and high-capacity services. Since 2018, we have transferred a number of technologies and products from the Institute of Technology and Technology to the present and introduced various ESG solutions. We are looking forward to digital transformation On the road of transformation and green energy transformation, we can contribute to the future environment and global sustainable development.

### 工業冷卻多溫層控制系統\_Industrial cooling multi-temperature layer control system

只須一份能源，即可供應多溫層不同加工溫度需求，達到相同效果，同時節省空間設置與減少能源消耗。

- ◆具有冷/熱源儲能結構，隨時供應冷/熱源，快速供給工具機所需作業環境溫度。
- ◆具有中央控制系統，達到能量互補效益。
- ◆有效控制工具機體溫度，溫差達到標準範圍 $\pm 0.5^{\circ}\text{C}$ 以內。
- ◆提昇工具機精密度，延長工具機壽命。
- ◆有效降低冷卻系統能耗30%以上。
- ◆COPt可達6.5以上。

Only one energy source is required to supply different processing temperature requirements of multi-temperature layers, achieving the same effect while saving space and energy consumption.

- ◆It has a cold/heat source energy storage structure, which can supply cold/heat sources at any time and quickly provide the required operating environment temperature for the machine tool.
- ◆Equipped with a central control system to achieve energy complementary benefits.
- ◆Effectively control the temperature of the tool body, and the temperature difference reaches the standard range of  $\pm 0.5^{\circ}\text{C}$ .
- ◆Improve the precision of machine tools and extend the life of machine tools.
- ◆Effectively reduce cooling system energy consumption by more than 30%.
- ◆COPt can reach above 6.5.

### 數位轉型方案\_nDAS

nDAS是一個資料擷取系統，可應用於綠色能源、能源管理、遠端控制、HVAC & AUQA、FA等領域，以及工業通訊需要資料交換。

- ◆可遠距監控及連接、擷取資料
- ◆簡單設定即可輕鬆連接雲端。
- ◆具有自動旁路保護功能 讓Daisy-Chain中的任何設備在斷電後持續運作48小時，可大大減少損壞。
- ◆使用者可以在選單中建立自己的OLED圖形，並且可以快速更新設置

nDAS is a data acquisition system that can be applied in green energy, energy management, remote control, HVAC & AUQA, FA, etc. , and Industrial communication requires data exchange.

- ◆When you are far away from the device, you can monitor the status of the device in real time, collect data, connect data, etc.
- ◆simple settings can easily connect to the cloud.
- ◆having Auto-bypass protection allows any device in Daisy-Chain to continue for 48 hours after power failure, so the damage can greatly reduced.
- ◆Users can create their own OLED graphics in the menu, and can Quickly update settings.

連結網址 | <https://streber-tech.com/index.html>



## 海基科技股份有限公司 Higee Tech Co., Ltd.

地球復原行動聯盟  
Earth Restoration Action Alliance

污染防治  
Pollution Prevention

攤位編號 | **S2302**  
Booth No.

海基科技，源自台北科技大學產學創新，解決加工金屬業者在製造時所遇到的痛點，提供高潤滑性與高熱傳導性的生質金屬加工油Bio-Based Metalworking Fluids (MWF)，幫助生醫、航太、3C等產業，提升工具機生產之良率及延長切削工具壽命。具產品研發、解決客戶問題之專業團隊，提供整合服務，並主張生質切削油更節省環境資源消耗，符合ESG標準，打造健康環境職場，以創造客戶最大價值及社會永續發展。產品於2022年2月獲得美國USDA生質標章之認證，並且與北科大環境所「永續創新與評估中心(SIAC)」進行生質切削油的碳足跡盤查，未來在碳權交易及碳關稅方面，更能增加台灣金屬加工業的全球競爭力。

HiGee originated from the industry-university innovation of Taipei University of Technology, solves the pain points encountered by metal processing industries during manufacturing, and provides Bio-Based Metalworking Fluids (MWF) with high lubricity and high thermal conductivity to help Biomedical, aerospace, 3C and other industries improve the yield rate of machine tool production and extend the life of cutting tools. A professional team with product research and development and customer problem solving provides integrated services, and advocates that biomass cutting oil saves environmental resource consumption, complies with ESG standards, and creates a healthy workplace to create maximum customer value and sustainable social development. The product was certified by the U.S. USDA biomass label in February 2022, and has conducted a carbon footprint inventory of biomass cutting oil with the "Sustainability Innovation and Assessment Center (SIAC)" of the Environmental Institute of the University of Science and Technology of China. In the future, it will be used in carbon rights trading and In terms of carbon tariffs, it can further increase the global competitiveness of Taiwan's metal processing industry.

### CNC水溶性生質切削油\_Bio-Based Metalworking Fluids(MWF)

海基產品使用生質材料不含硫磷氯等有害物質，是重視於環境友善及人體安全的產品，取得美國USDA生質認證，生質含量高達71%，符合ESG及碳中和，生質油具有極性具有優異的潤滑性，有效幫助刀具的壽命延長並提高加工良率。

Water soluble bio-cutting fluid with polarity and lubricity excellently can dramatically increase the production yield rate, and improve the rust preventive significantly on the metal surface compares to mineral oil and also can lower the cost.

We develop own biomass formulations. It possesses waste effluent recycling technology. It is not only about the cost but also put emphasis on the environmental pollution. By the circular economy, the waste effluent recycling technology makes zero pollution and can be an advantage for bio-metal working oil. The biomass formulation can be customized to meet customer's needs.



### 廢切削油回收利用\_Waste cutting oil recycling

廢棄金屬加工液回收再利用，符合企業ESG減碳標準，打造健康環境職場，為客戶創造最大價值及延續企業社會責任。

Recycling and reusing waste metal working fluids meets corporate ESG carbon reduction standards, creates a healthy workplace, creates maximum value for customers and continues corporate social responsibility.

連結網址 | <https://higeechoil.com/>





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## 亞騰國際開發有限公司

A Ten International Development Co., Ltd.

攤位編號 | **S2302**  
Booth No.

本公司於台中結合國內優秀專業人才共同創立之會展服務公司，至目前為止展覽部份於國內遍及全國各地區策劃各種類型之展覽及活動，每年舉辦大約數十場展覽及活動之專案服務。

展覽業務方面有：台中設計週、永續展、建材展、國際工具機展、家具展、旅遊展、美食展、婚紗喜展、寵物用品展、水族爬蟲展...等自辦及委辦展覽。

2018基於建築業界重視室內空氣品質開創空汙綠能建築展，2022年更響應世界2050淨零碳排趨勢轉型台灣永續發展及低碳綠建築展，推動近零碳建築產官學研銷共創平台。

We are a professional exhibition and event services company based in Taichung, founded by a team of outstanding professionals in Taiwan. Since our establishment, we have successfully planned a wide variety of exhibitions and events in various regions across the country, providing project services for dozens of exhibitions and events annually. Our exhibition portfolio includes self-organized and commissioned exhibitions such as Taichung Design Week, Sustainable Expo, Building Materials Expo, International Machine Tool Expo, Furniture Expo, Travel Expo, Food Expo, Bridal & Wedding Expo, Pet Supplies Expo, and Aquatic & Reptile Expo.

In 2018, we recognized the significance of indoor air quality in the construction industry and launched the Air Pollution and Green Building Expo. In 2022, we responded proactively to the global trend of achieving net-zero carbon emissions by 2050 and transformed our focus to the Taiwan Sustainable Development and Low Carbon Green Building Expo. We are dedicated to driving the advancement of nearly zero-carbon buildings and fostering collaboration among industry players, governmental bodies, academia, and research institutions to create a shared platform for innovation.

### 近零耗能建築與節能解決方案\_Near-Zero Energy Buildings and Energy-Efficiency Solutions

一站式近零建築供應解決方案團隊，包括省水技術、環境空氣淨化、智慧建築的物聯網和邊緣計算應用、防曬隔熱技術、木結構建築、冷凍空調、熱泵節能、智慧醫療等全方位供應。

One-stop near-zero energy building supply solution team, offering a comprehensive range of services, including water conservation technology, environmental air purification, IoT and edge computing applications for smart buildings, sun-shading and heat insulation technology, timber structure construction, refrigeration and air conditioning, heat pump energy efficiency, and smart healthcare.



連結網址 | <https://tgef.tw/>





地球復原行動聯盟  
Earth Restoration Action Alliance

污染防治  
Pollution Prevention

## 旋天環保設備製造有限公司

Shiftrewater Environmental Technology Business Co., Ltd.

攤位編號 | **S2302**  
Booth No.

旋天公司自1992年起從事廢水、廢氣、資源回用、節水節能之設備製造。自行研發技術有：線上清洗水節水、廢木料製作碳材及觸媒再利用、廢切削液回收、高效除臭及酸鹼廢氣處理、脫硝新型技術、資源化焚化爐。1997年廢水及廢氣旋轉接觸濾材取得台灣及大陸專利。技術獲國科會技術審查通過參加第二屆APEC (Technomart)國際展覽受多國肯定。2011年「線上清洗水節水設備」獲選為經濟部工業局清潔生產推廣標的技術。

Shiftrewater Environmental Technology Business Co., Ltd. established in 1992 and headquarter in Taiwan.

We focus research and development on advanced environmental engineering technology. We own factory have ability to design and manufacture wastewater treatment system equipment, air pollution control system equipment. Our company export equipment & technologies to China, Vietnam, Malaysia etc.

At present, We development a variety of resources re-use and zero- effluent waste reduction technology (For example: Electroplating cleaning wastewater purification reuse technology. Degreasing waste purification technology. Gold, Nickel, Copper and other metal ion recovery technology. Waste sludge renewable green building materials technology. And Waste metal-working fulids recycle treatment technology.) We also use ultraviolet light, ozone to treatment organic wastewater.

In addition, We have a lot of mature de-odor technology (For example: Three-stage deodorization equipment, etc.), with our own research and development of greatly improve the pollution control effectiveness.

### 廢切削液濃縮回收設備

#### Waste metal-working fulids recycle treatment technology

使用節能技術及單元操作將廢切削液破乳及濃縮純化，提升可回收再利用率。

Use energy-saving and high-efficiency technology to concentrate and purify waste cutting fluid and increasing the recycling rate.

### 資源化焚化爐\_Resource incinerator

可產生熱量之廢棄物再利用為燃料，其廢熱再利用為其他用途能源。

Use waste wood or oil to burn and recycle waste energy for other process.



連結網址 | <http://www.shiftrewater.com/>



HERYEE  
禾益生物科技股份有限公司

## 禾益生物科技股份有限公司 HERYEE BIOTECHNOLOGY CO., LTD

水資源  
Water

攤位編號 | **S1137**  
Booth No.

本公司核心技術為多功能性共生菌群的共培養技術，開發針對水生生物的環境益生菌群與蝦子腸道有益菌群，並且也透過微生物技術分離有益的優勢菌種並針對不同菌種產生風味與嗜口性開發作為添加劑，以及將篩選的菌株優化再針對需求共培養建立共生菌群。以菌群為技術核心並投入飼料製程，使用食品與藥廠級設備，開發、建立機能性飼料之技術與品牌，因應各式養殖系統所需的水質條件開發淨水相關設備。

Focusing on co-culture techniques for multifunctional symbiotic microorganisms. The main product is targeting environmental microbiome and probiotics for shrimp farming. The healthy microbiota can be processed to feed additives which not only can improve health factors but also palatability in aquafeed. Furthermore, customized microbiota are available for special demands as well. Food grade equipment is used for microbiome feed additives and aquafeed production. We also extend our business on aquarium shrimp sale, aquafeed material, pilot scale aquafeed OEM, and microbial fermentation consultation.

The effect and quality of feed and bacteria are the basic guarantee for consumers. Our core concept is to improve the precision customization.

For varieties and habits of different ornamental shrimp; breeding methods and nutritional needs of breeding fields; customized services for general aquarium hobbies and leisure consumers. Let users get started in operation.

### 自動調整TDS淨水機\_Automatically adjust TDS water purifier

微電腦直輸式的淨水機並且能夠在出水時自動調整TDS 50-200uS/cm，並採雙道式出水模式，因此可以針對不同物種或是出口時打包用的水，同時也能減少額外添加的礦物質降低成本，另外此設備為雙馬達輪替系統，因此可以24小時連續不間斷造水，另外也提供設定流量換置率新的提醒燈以及設定水源自動開關。

The microcomputer direct water purifier can automatically adjust TDS 50-200uS/cm when water is discharged, and adopts a dual-channel water discharge mode, so it can target different species or package.

### 觀賞蝦菌劑\_Ornamental shrimp probiotics

自行設計並委託專業精密設備工程廠商製作專屬生產連續流式的微生物發酵槽進行多功能性微生物菌群的發酵培養，現場操作製程品管透過溫度、ORP、pH、產氣量、氫氣量進行發酵是否穩定，並且同時透過分子生物技術中的NGS次世代定序進行菌種分析，前者由發酵工程師並搭配後者的分生分析師嚴密控管發酵的產品品質。

The microcomputer direct water purifier can automatically adjust TDS 50-200uS/cm when water is discharged, and adopts a dual-channel water discharge mode.

連結網址 | <https://www.heryebiotech.com.tw/>



## 承鴻工業股份有限公司 ExtreMem, Inc.

水資源  
Water

攤位編號 | **S1139**  
Booth No.

承鴻工業股份有限公司為台灣唯一自主生產非對稱式金屬燒結濾芯的廠家。產品可廣泛應用於石化產業、半導體產業、廢水處理等。有關公司簡介或是詳細產品介紹，請至我司網站 [www.extremem.com](http://www.extremem.com) 我們的創新無機廢水處理方案將會在TASS 2023正式介紹。此方案將讓使用者更有效率的回收水資源、並且大幅減少有害事業廢棄物的產量。

ExtreMem, Inc. is the manufacturer for asymmetrical sintered metal filter, also a professional filtration solution provider headquartered in Taoyuan, Taiwan. Applications cover from petrochemical industry, semiconductor industry, wastewater management/solution, etc. For more company info and product details, please visit our website at [www.extremem.com](http://www.extremem.com) Our innovative filtration system designed for inorganic wastewater will be featured in TASS 2023. It has proven to outperform from other competition, by allowing to retrieve more clean water and minimize the process waste.

### 無機廢水處理方案\_Inorganic Wastewater Process Solution

此解決方案將讓使用者更有效率的回收水資源、並且大幅減少有害事業廢棄物的產量。

The solution will allow user to recycle water with better efficiency, and also significantly reduce hazardous industrial waste for user.

### 晶背研磨廢水處理方案\_Backgrinding Wastewater Process Solution

此解決方案將讓使用者更有效率的回收水資源、並且大幅減少有害事業廢棄物的產量。

The solution will allow user to recycle water with better efficiency, and also significantly reduce hazardous industrial waste for user.

連結網址 | [www.extremem.com](http://www.extremem.com)



## 元業綠能驗證有限公司

### Yuan Yeh Green Energy Verification

水資源專區  
Water

攤位編號 | **S2101**  
Booth No.

元業是專業企業輔導顧問，專門針對現今企業面臨的 碳盤查/碳資產規劃/一般、特定工廠登記/土地法規/稅務規劃/廢水節能減排技術 六大問題進行輔導與技術導入。

本公司最初為地政士事務所起家，初期專責為農地違規廠房合法化輔導並獲頒高雄市經發局前五大輔導業者的殊榮，現今本公司受邀與”經濟部工業局”及”國立高雄科技大學”共同合作輔導企業完成自願行碳盤查ISO14064-1、ISO14064-2計畫，更擔任工業局、產基會、中華軟協碳盤查輔導講師，而在廢水處理方面更有二十多年的技術傳承，對於節省電費、污泥減量90%、循環經濟有相當亮眼的成績，減碳勢在必行。

Yuan Yeh Green Energy Verification is a professional corporate consultant for the Carbon Footprint Verification / Carbon Asset Program / Factory Registrations / Land Regulations / Taxation Planning / Sewage Conservation Processing.

We started as a Land administration office which help the illegal factory on the agricultural land to be legitimate. We has been awarded the top five company of business counseling by Economic Development Bureau of Kaoshiung city.

We are invited to cooperate with Industrial Development Bureau and National Kaohsiung University of Science and Technology to guide enterprises to complete ISO14064-1 and ISO14064-2 programs, and also a lecturer for the IDB and CISA.

Otherwise, we have more than 20 years of experience in conserve electricity, water and sludge, etc.

We are looking forward to make more further outstanding achievements.

### AI先進能源控制系統\_AI Further Energy Control System

用於百貨公司、商辦樓、飯店、工廠等各種冷暖建築。以空調動態仿真模型為基礎、AI數據分析為核心及混合整數優化技術，提供全自動24小時無間斷的優化運行方案。控制策略是依AI人工智能提出，經動態仿真模型驗證，不需編寫及維護群控的程式，無需連接雲端訓練AI模型，系統快速上線。製冷能耗降低15-30%以上，制熱能耗降低20-40%以上，一般而言空調系統的能耗占建築能耗一半以上，投資回收年限約為0.5-2年。

It is used on various kinds of architectures as departments store, commercial office building, hotel and factory, etc. Based on the air conditioner active simulated model, AI data analysis and combine optimum technique, it provides 24 hours (a-day) automatic and continuous optimization and operation program. The strategy of the control system is presented by the AI artificial intelligence.

Through the active simulation verified, the AI control system will be activated efficiently without maintenance program coding and online cloud connecting. In general, the proportion of the energy consumption to the air conditioner is more than the architecture in itself. By the system, the refrigerate consumption will saving more than 30% to 50%, and the heat consumption will saving more than 20% to 40% as well. The duration of the return on investment for all is around 0.5 to 2 years.

### 高效節能菌\_Energy-Efficient Bacterium

採用高效菌群為兼氧菌，可以處理各種高難度的有機污染，能直接脫色及消除氨氮、硝酸根、臭味、毒性物質、硫酸根等，包含工業廢水、餐廳污水及生活污水，特色是產生廢棄污泥極少（減少70-100%與活性污泥技術比較）。廢水處理中減排放比活性污泥技術還低50%以上。

The challenging organic pollution can be all settled by the Energy-Efficient Bacterium which can also eliminate Ammonia nitrogen, stinky smells, toxic substances and sulfate, etc., including the sewage of industry, restaurant and the residential-used. Especially it produces very few waste sludge less than 50% when compares to the activated sludge processing.





## 大成過濾材料有限公司 DACHENG FILTER MATERIALS CO., LTD.

水資源  
Water

攤位編號 | **S2102**  
Booth No.

大成過濾材料有限公司於2015年創立，一直以來都是以處理廢水汙染、再生水回收、為現存的人類社會貢獻一己之力為目標。大成過濾擁有自主研發的薄膜製作技術，製作獨特可應用於高汙染環境的有機管式薄膜，對於工業廢水或相關水資源問題，帶來突破性的研究發展。

減少對於廢水處理流程中使用的化學藥劑，就可降低二次汙染，或是減少二次處理的成本，使用薄膜技術是一種簡單的物理性分離方法，可快速達到固液分離，取得有效成果。

大成過濾材料有限公司更是加強研發的能量，在未來可以面對各式各樣的廢水問題，也期許產品的創新、技術的精進，能夠對水資源短缺的狀況獲得改善，創造更好的生活環境。

DaCheng Filtration Materials Co., Ltd. was established in 2015 with the goal of contributing to the current human society by addressing wastewater pollution and promoting water recycling. The company possesses independently developed membrane fabrication technology, producing unique organic tubular membranes suitable for highly polluted environments. This has led to groundbreaking research and development in industrial wastewater treatment and related water resource issues.

By reducing the use of chemical agents in the wastewater treatment process, the company can lower the risk of secondary pollution and minimize the costs associated with secondary treatment. Utilizing membrane technology, which is a simple physical separation method, allows for rapid solid-liquid separation and achieves effective results.

DaCheng Filtration Materials Co., Ltd. is actively strengthening its research and development efforts to tackle various wastewater challenges in the future. The company also aspires to foster product innovation and advance its technology, seeking to improve the situation of water scarcity and create a better living environment.



### 有機管式膜\_organic tubular membrane

流道寬，管式膜內徑約8~12.5mm，錯流型式過濾，不易堵塞，透過調整流速減少汙泥堆積。

適合處理高黏度、高濃度、高COD、高濁度的液體。

採用兩端封裝設計，一端進水，另一端濃縮液體排出，降低膜表面堵塞機率。

大成管式膜的跨膜壓差小，壓差損失低。

複合膜結構之組成，耐壓性高，不易破損和斷裂。

膜清洗過程簡單，有化學清洗，以及物理性清洗，皆可線上操作，節省人力。

The membrane tubes are designed with sealing at both ends: one end for inflow and the other for the discharge of concentrated liquid, effectively reducing the probability of membrane surface clogging.

連結網址 | <https://www.dcfiler.com.tw/>

# 4 廣告及贊助

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TASS  
2023

亞洲永續供應+循環經濟會展  
Sustainable Taiwan Expo

# 動力與公用設備補助

購買高效率產品，申請補助金，省錢再省電

補助購置品項：微油空壓機、離心/軸流通風機、單段/多段水泵、IE4感應馬達

補助購買(發票)期間：112年1月1日-112年12月31日

補助申請期間：112年5月12日-113年1月15日

補助每kW 700~5000元 **中小企業再加碼20%**

隨到隨審  
選撥入戶



展覽期間，  
掃描填寫問卷，  
再抽禮品

# 元業綠能驗證有限公司

——返本朝元 · 業俊鴻績——



## 工業局-碳盤查輔導顧問團隊

與「經濟部工業局」及「國立高雄科技大學」共同合作輔導企業完成自願行碳盤查ISO14064-1、ISO14064-2計畫及節能減碳建議，輔導時間大約半年，輔導內容詳情請上『元業綠能驗證』粉絲專頁，有部分課程內容分享。



## 工業局/產基會/中華軟協-溫室氣體碳盤查講師

- CBAM要求國內相關法令政府資源挹注
- 溫室氣體盤查標準簡介/碳排金好算(數位工具) /盤查流程介紹
- 溫室氣體盤查量化方法/直接.間接排放量化/溫室氣體報告書產出  
排放源鑑別/活動數據蒐集/排放量計算/系統文件/報告書建置
- 溫室氣體內部查證技巧與重點



## IAS國際證照班

- ISO14064-1 溫室氣體組織型主導查證師
- ISO14064-2 溫室氣體專案型查證師暨確證師(第一方與第二方)
- ISO14067 產品碳足跡主導查證師
- ISO14001 環境管理系統主導稽核師



## 特定工廠登記 (農地廠房就地合法)

- 榮獲經發局頒獎全市前五名殊榮
- 改善計畫、用地計畫變更
- 已有數家工廠取得特定工廠登記證
- 外部水源、安全結構簽證、消防規劃



使用前



使用51天後

## 酵素除垢技術-冷卻水塔

- 降低運行成本(水費及電費)約22%
- 節約用水-回收放流水
- 投放酵素後不排放
- 冷卻水塔散熱鰭片、冷凝器不會結水垢及抑制藻菌滋生

## 廢水實際案例說明 (以現況去改善盡量不去增加設備，效能也會依現場設備狀況而不一樣)

- 高雄漢○百貨公司使用冷卻水酵素除垢技術，每月節省電費一百多萬，減少冷卻水排放90%
- 食品業氨氮趨近於零技術
- 工廠廢棄物清運從每年1400萬到140萬
- 更多產業案例歡迎詢問



# 讓您的工業營運準備好 迎接多變的世界



我們的軟體, 幫助您掌握以下環境因子的即時狀況趨勢:

- 空氣品質
- 粉塵
- 水
- 噪音
- 臭氣
- 振動





# >2,200 更環保的選擇



## 「再」設計之產品

「再」設計類別中的產品是由默克科學家製造。全球綠色化學委員會的成員已經開發出新的方法來製造使用更少資源、更少危險和 / 或產生更少廢物的產品。默克引入了業界首創的評分系統來量化環境足跡的改善情況。



β-Amylase



Benzoxazole



## 與綠色化學12原則一致之產品

此類產品展示了一項或多項符合綠色化學 12 道原則的特性。其中一個例子為 **Cyrene™** 的新型生物可再生溶劑，它有可能替代 **NMP** 和 **DMF** 等傳統溶劑。**Cyrene™** 具有較低的危害且接近於零  $CO_2$  足跡，符合綠色化學原則 #4“ 設計更安全的化學品”。



Cyrene™ 新型生物可再生溶劑



## 協助綠色研發之產品

此類產品是可協助於替代能源領域的研究。默克產品設計志在與科學家一起釋放自然的力量，其中包括用於能源產生、儲存和效率的新型和經過測試的材料。除了默克不斷發展的產品外，默克還與一流大學保持著多項合作，以開發最新的替代能源材料，確保研究界始終可以使用最新技術。



## 可持續性設計 Design for Sustainability ( DfS ) 之產品

默克將 **DfS** 理念與方法嵌入到默克的产品開發流程，以確保默克評估可持續性特徵。此類別中的產品是新產品，從默克的 **DfS** 記分卡中展示出顯著的可持續性特徵 / 改進。一個例子是新的 **Stericup® E** 無菌過濾器。與類似的無菌過濾器相比，這些新過濾器以減少進入廢物流的塑料和包裝的數量。



Stericup® E 無菌過濾器



## AIDDISON™ 人工智能加速新藥發現

電腦模擬藥物發現的突破由此開始。**AIDDISON™** 藥物發現軟件結合了人工智能 (AI)、機器學習 (ML) 和電腦輔助藥物設計 (CADD) 方法的力量，成為滿足藥物化學需求的寶貴工具包。



## SYNTHIA™ AI 輔助逆合成 設計平台

**AI** 輔助合成將研究和合成方法設計速度從幾週縮短到幾分鐘。由化學家編碼並由電腦科學家設計，**Synthia** 擁有且不斷更新先進有機合成規則和演算法的數據庫。



## MQuant® StripScan 幫您 判讀試紙的 APP

讓您在生產過程控制、消毒控制和環境測試中的快速測試變得更容易、更準確。**MQuant®** 測試條和 **MQuant® StripScan APP** 提供了快速測試中的可靠性、一致性及數據管理。



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# 【好康分享】



免費綠色化學計算機  
DOZN™ 2.0



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台灣默克客服信箱  
[mtaw\\_service@merckgroup.com](mailto:mtaw_service@merckgroup.com)



Kinetic systems Corp  
Environmental cleanup



# 磁懸浮

離心式鼓風機/空壓機

節能 無油 低噪音 免維護 智能化



匠普集團

與您共同貫徹 **ESG** 的目標

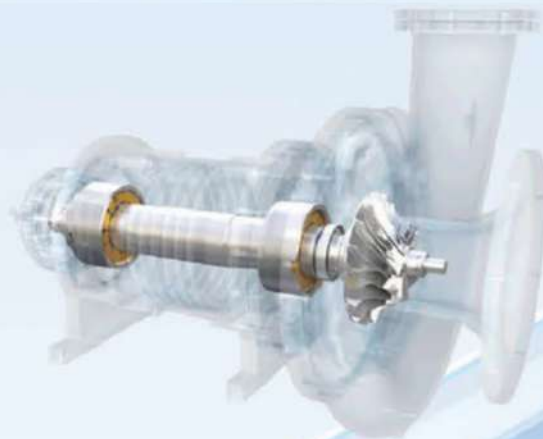
磁懸浮軸承

高速永磁電機

三元流葉輪

智能控制

節能  $\geq 30\%$



匠普系統工程股份有限公司  
<http://www.kinetic.com.tw>

TEL: 台北 02-26984762

高雄 07-3759748

# 多元且模組化的 再生能源解決方案



## 創能 Generate

安葆電能專注發展多元化的電力來源，提供客戶各種高效能的電力解決方案。無論是柴油、氫氣、沼氣還是地熱能，引進專業技術將資源轉為可靠的綠能，確保客戶的能源需求得到最大的滿足，同時也為環境保護作出更積極的貢獻。



## 節能 Conserve

安葆自有的PLTC並聯系統可透過量身訂做的方式，按照客戶需求，有效分配發電機的電力，不但可以提升能源效能，還能活化發電設備相關資產，讓發電機不僅是備用電力，更可以是遭遇電力問題時，調節並維持電力供應的關鍵。



## 儲能 Storage

安葆提供客戶儲存電能的解決方案，我們一直關注鋰鐵電池和飛輪儲能的高穩定性和環保特性，並將相關技術作為更安全且更可靠電力備援的服務推廣。這些技術可以代表安葆電能不斷追求服務創新以提供客戶更多電源選擇的承諾。



## 淨能 Clean

安葆引進的雙燃料系統是一項創新的技術，使傳統的柴油發電機能夠同時混燒天然氣，不僅可有效降低碳排放汙染，還實現庫存柴油的有效運用。此雙燃料技術不僅可以改善空氣品質，也讓傳統石化能源的可持續性作出一定的貢獻。





# 氫氣熱電聯產系統 Hydrogen CHP System

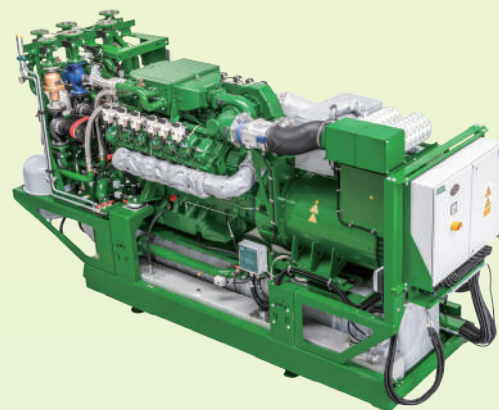
氫能發電是全球減少二氧化碳排放的重要研究領域之一，而安葆電能的氫氣熱電聯產系統是一種成本低且風險小的環保微電網技術。而這個已商業化的氫氣發電機系列可使用0-100%氫氣混合燃料，因此我們的氫氣熱電聯產系統能以高效、經濟且環保的方式同時產生電力和熱能。值得注意的是這個系統的引擎比氫燃料電池更堅固也更經濟實惠。



|      |                  |
|------|------------------|
| 輸出電能 | 115 - 750 kW     |
| 電能效率 | 37.7 - 40.5 %    |
| 輸出熱能 | 440 - 2,620 MBTU |
| 熱能效率 | 40.7 - 42.3 %    |
| 綜合能效 | 80.0 - 82.2 %    |

# 沼氣熱電聯產系統 Biogas CHP System

安葆電能的沼氣發電系統配備了優化燃氣引擎的高效發電機，能夠顯著降低燃料成本。我們的系統更採用了模組化設計，所有零配件都易於運送和安裝，同時具有高度彈性和低維護成本。而發電機內部的高品質引擎零件非常耐用，確保高效、可靠且長時間的穩定運轉。此發電系統更支援多模組互聯配置，能夠提供更高的電力輸出，滿足大型工業和微電網的用電需求。



|      |                    |
|------|--------------------|
| 輸出電能 | 550 - 2,000 kW     |
| 電能效率 | 40.4 - 42.8 %      |
| 輸出熱能 | 2,002 - 6,817 MBTU |
| 熱能效率 | 40.7 - 43.3 %      |
| 綜合能效 | 83.4 - 84.5 %      |





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單一平台實現ESH | ESG數位轉型

# 環安雲 ESH Clouds

- 超過200家指標企業的第一選擇
- 橫跨石化、半導體、高科技等十大產業
- 根據需求自由選配的SaaS管理平台



## SAFETY FOR ALL 從 ESH數據蒐集 到 ESG績效呈現

隨著ESG框架的迅速發展與推陳出新，企業被要求持續揭露相對應的現況與報告。環安衛(ESH)部門將成為蒐集數據的重要單位以提供永續(ESG)部門所需的資訊，為此我們將各式環安衛實務拆解成多個不同的模組，讓企業能在單一平台上搞定所有管理難題！

### Carbon Emissions

#### 碳盤查與減碳淨零

- 碳係數庫與係數搜尋器
- 分工協作與主動通知功能
- 淨零策略與報告書產出

### Legal Compliance

#### 法規鑑別與查核自動化

- 完整且即時的法規數據庫
- AI解析法規分類
- 合規管理與逐條鑑別

### Chemicals Management

#### 化學品合規管理

- SDS資料庫及智能解析
- 列管法規智能對應
- 化學品配置圖與風險控管



# 誠研創新 | KOIN智高點

## 數位孿生×綠色科技產業化論壇

時間：2023年11月24日 下午 1:00 - 4:00 (入場報到 1:00-1:30)

地點：創新舞台@高雄展覽館

展會名稱：TASS 2023 亞洲永續供應+循環經濟會展

| 項次 | 時間          | 議題   | 講者  |
|----|-------------|--|---|
| 1  | 13:30-13:32 | 開場及貴賓/講者介紹   |   |
| 2  | 13:32-13:45 | 貴賓致詞與合影儀式(致詞貴賓與講員大合影)                                    | 高雄市政府經濟發展局 陳怡良 主任秘書<br>鑫蘊林科股份有限公司 謝源實 董事長 |
| 3  | 13:45-13:55 | 【開場簡報】<br>創新無限,永續無價  <br>數位孿生加值綠色經濟與產業創新永續               | 誠研創新股份有限公司 總經理<br>KO-IN智高點數位孿生實驗室 主任 鍾金峯  |
| 4  | 13:55-14:40 | 以AI之名,為3D而生  <br>xModel Designer數位建廠解決方案<br>產品發表暨早期使用者分享 | 萃思科技股份有限公司 劉其昌 營運長<br>及 使用者代表             |
| 5  | 14:40-15:00 | 以終為始,超越淨零  <br>鋰電池綠色回收技術平台及其商業模式                         | 競零再生科技股份有限公司<br>何麗貞 總經理                   |
| 6  | 15:00-15:20 | 疫苗遠傳,愛更圓滿  <br>智慧疫苗冷鏈平台及其商業模式                            | 金祐國際股份有限公司<br>吳清吉 總經理                     |
| 7  | 15:20-15:40 | 從工業自動化,到產業智慧化  <br>數位化驅動製造永續                             | 台灣洛克威爾國際股份有限公司<br>王展帆 總監                  |
| 8  | 15:40-15:55 | 座談交流 Q&A   | 全體講師                                      |
| 9  | 15:55-16:00 | 緣來就是你   現場抽獎與頒獎活動  |   |

展會期間,歡迎至誠研創新×KO-IN智高點 聯合攤位商洽,攤位編號: **S1138**



KO-IN 高雄智慧科技創新園區

### 數位孿生實驗室 Lab of Digital Twins



數位孿生解決方案(智慧標籤與CMMS系統)  
連奕科技與洛克威爾合作建置



KO-IN數位孿生實驗室啟動盛況  
(企業以大帶小,熱烈共研合作)

「KO-IN智高點」為高市府智慧(綠色)科技新創育成基地,由「誠研創新(股)公司」營運並提供早期投資介接與專業陪跑服務。日前共同成立「數位孿生實驗室」,期待能透過中大企業的市場驅動需求,協助整合在地創新企業的技術能量,共同提出完整解決方案與商業模式,共享新藍海市場。目前參與合作企業成員涵蓋國內外知名科技公司,多數為上市櫃大型企業。歡迎跨業合作,詳情請至KO-IN智高點或誠研創新官網查詢。



### 校內行政支援服務

1

校內產學合作詢平台  
提供專業產學合作行政支援  
協助教師爭取政府標案計畫

### 教師研發成果商品化

3

協助教師技術研發商品化  
提供教師研發成果行銷與推廣

### 建立策略聯盟

5

深化連結產業(科技)園區  
學學合作鏈結國內產業與  
國際企業

### 單一產學服務窗口

2

列管專案廠商合作需求整合人才  
培育、技術服務需求  
提供產學合作案從申請至結案

### 媒合與洽談產學合作

4

產學教師媒合網媒合機制  
主動關懷新進教師推動產學  
媒合廠商需求執行產學合作

### 智財保護與技術移轉

6

強化專利篩選與運用  
提升科研成果效益

## 產業關鍵



### 人才培育

- 優質學生
- 契合的技術與職業教育
- 專業教師、設備
- 解決產業斷層與缺口

### 技術合作

- 契合產業與研發特色
- 協助轉型
- 技術升級
- 在地實踐
- 爭取資源



### 求才/求技術快速通關QR CODE

### 產學營運處產學運籌中心官方網站



技術需求



人才需求



詳細資訊

聯絡窗口

王曉珍 專案副理

jasmine985@nkust.edu.tw

07-6011000#31476

Line ID: jasmine985



## 漁電雙贏

結合養殖漁業與綠能發電  
帶動土地發展利用  
創造綠能與漁業共生共榮



海廢再生聯盟



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高雄展覽館 Kaohsiung Exhibition Center  
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# Harnessing efficiency with Edwards vacuum pumps for CCUS



Liquid ring vacuum pump and systems

Vacuum systems, an integral part of post-combustion carbon capture technology, facilitate the separation of CO<sub>2</sub> from flue gases by creating a low-pressure environment, which allows for efficient stripping or desorption of the captured gas. Edwards Liquid ring vacuum pump systems have proven to be highly effective in providing continuous compression and discharge pressure resulting in efficient extraction of CO<sub>2</sub> from the flue gases.

- **Reliable and robust:** Wide range of operating conditions, including handling moist or corrosive gases
- **Low maintenance:** Simple design with few moving parts, reduced downtime and operational costs
- **Versatile:** Liquid ring vacuum pumps can handle various gases efficiently with capacities from 25 m<sup>3</sup>/hr to 26000 m<sup>3</sup>/hr for the pilot
- **Various materials of construction:** Stainless steel material of construction to mitigate the detrimental effects of corrosive gases present in the captured gas stream

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