CTCI
Discover Reliable

中鼎集團
2026 亞太永續會展

中/En

設計理念 永續萬花筒

融合綠色工程、循環經濟與智慧科技的永續理念，打造兼具藝術美學、環境教育與互動體驗的永續展場，將永續理念轉化為可感知、可參與、可實踐的體驗旅程。

空間以多元植物為靈感，運用蜂巢板、紙花藝等循環材料，搭配大型 LED 光影展演，形塑持續生成的萬花世界，象徵自然循環與永續生命力。展區串聯永續成果展示、水循環互動及永續講堂，引導民眾從認識、體驗到實踐，理解中鼎如何透過高科技綠色工程與智慧創新，攜手產業邁向淨零未來共創永續價值。



「零碳、零廢、零距」萬花筒體驗區：透過光影、聲音與科技，將中鼎創新的綠色工程解決方案轉化為易於理解的展示內容。



「永續倡議區」邀請民眾透過水滴互動裝置，認識水循環與節水行動，並參與永續承諾，實踐「一滴水、一地球」，攜手守護永續未來。





空間規劃｜永續綻放

以高聳柱體象徵城市建築，上方的紙花藝裝置則寓意綠屋頂工程，展現自然與城市共生的永續願景。

民眾穿梭其中，彷彿漫步於綠色城市，透過與空間的互動感受自然對話，進而認識永續的價值與可能。

展示
影音故事 X 多元共好
中鼎集團的社會影響力

互動
永續智慧藍圖 X 永續承諾
三零永續•攜手守護未來

講座
永續主題 X 民眾交流互動
多元參與永續講堂



展示

影音故事 X 多元共好

中鼎集團的社會影響力

中鼎集團以**水資源永續倡議、零碳、零廢、零距及多元共好**為核心，串聯工程創新與社會影響力，攜手產業、環境與人才共創永續未來。展區透過影音故事展演，將永續議題轉化為易於理解的內容，引導民眾認識永續理念與具體行動。

五 大 亮 點

水資源永續倡議

- 再生水工程
- 工業用水循環系統
- 水處理基礎建設
- 民眾節水承諾

淨零轉型建設

- 綠色工程
- 綠色技術
- 綠色承攬
- 綠色投資
- 淨零承諾實踐

零廢棄循環經濟

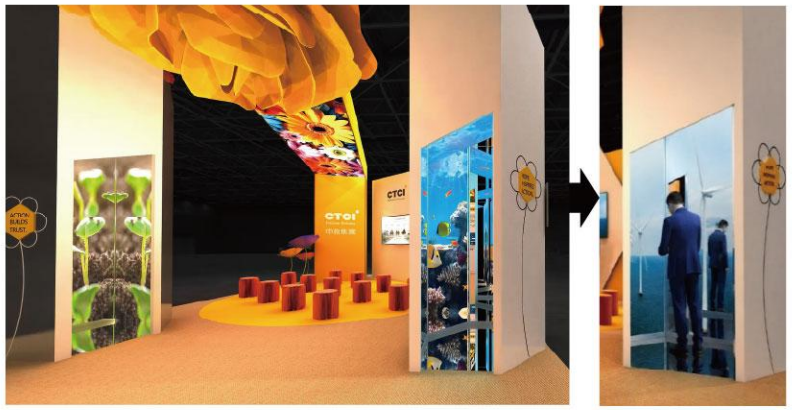
- 高科技零廢中心
- 廢溶劑回收
- 廢轉能
- 資源循環再生
- 營運據點生物多樣性、環境教育

AI 驅動產業升級

- AI智能應用
- 智慧工廠新時代
- 智能工地管理
- Mr.OPX介紹

多元共好與社會影響力

- 多元人才招募、健康職場
- 推動永續教育、綠色新生活運動
- 中鼎大學、鼎學網培育工程人才
- 紫斑蝶微電影放映



自然與工程的轉換 × 沉浸互動

展區設計：綻放之間 • 看見永續的萬花世界

- 「零碳、零廢、零距」為主題，打造沉浸式萬花筒互動體驗。
- 透過光影、自然聲景、鏡面反射與感應科技，呈現「土、水、空氣」的循環。
- 民眾進入空間後，自然影像藉由感應科技，自動轉化為相關的綠色工程成果，直覺式認識創新工程，進而明瞭具體行動。



民眾參與 X 教育與倡導

一滴水一地球 | 守護未來

- 民眾滑動水滴的參與行為，啟動水循環影片，認識「氣候、生物、日常與工程」四大關鍵行動；將手再次放於水滴上，完成倡議行動產生守護能量。
- 藉由互動深化永續意識，倡導節水與循環利用觀念，共同匯聚守護地球的永續力量。

沉浸互動：萬花世界



以大面積 LED 光影視覺，將花朵意象於空間中重組、延展與循環生成打造萬花世界，象徵永續發展生生不息的能量與綻放未來的無限可能。

沉浸互動：綻放之間



以自然影音吸引民眾進入空間，觸發感應後，自然影像即轉換為「零碳、零廢、零距」的綠色工程解方，展現永續從自然到實踐的轉化歷程。

行為式互動：水循環



立體水滴結合感應滑軌與互動程式設計。
民眾滑動水滴入河啟動水循環故事。
體驗尾聲將手心放於水滴上完成倡議，水滴會自動回歸上方位置。



講座

永續主題X民眾交流互動

多元參與永續講堂

「永續講堂」邀請集團內外講師與民眾交流永續理念。透過影片、繪本及互動問答等形式，促進多元世代與族群對話，深化永續教育與倡議，傳遞中鼎的永續價值。







C 社區包容 15%

社區合作：紙雕藝術家



王莉陵老師以多元植物為靈感，運用紙雕藝術重新詮釋生物多樣性與自然生命力，打造象徵永續循環的萬花藝術裝置。

多元族群參與：永續講堂



「永續講堂」納入多元世代觀點，特別邀請非營利組織夥伴分享永續行動，帶來更多永續第一線的視角，讓民眾對於永續擁有更多元的觀點。

社會影響：永續擴散



展覽結束後「紙花藝」將移置國際扶輪3522地區25-26年度幸福博覽會-情緒教育展展出，賦予展品更長的生命週期，持續綻放和營造永續精神的環境。

無障礙設計



由專人導覽，或是租用耳機以數位化方式參與。



全展區無任何高低差，且各通道寬度皆大於法規要求的1.2米。



循環贈禮 咖啡渣再生手工皂

透過回收咖啡渣再製技術，賦予廢棄資源全新價值。



D 環境永續 30%

1 環保材質展場：蜂巢板 / 風琴紙 / 紙花藝

進場製作 ➡ 撤場回收

全區採用蜂巢紙板、風琴紙家具、紙花藝等環保複合材質，打造輕量穩固、高度模組化的展場結構；蜂巢紙板撤場後統一送往資源回收場，實踐展覽全流程的零廢棄設計。

2 蜂巢板結構與租賃LED屏幕 / 螢幕的搭配

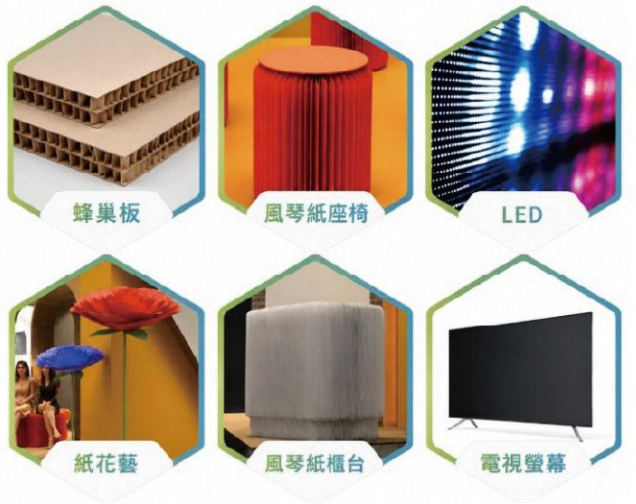
進場製作 ➡ 撤場歸還

用極低碳排、可回收的蜂巢板做主要建材搭配螢幕拼接呈現主要的互動內容，達成超過 70% 平面美工減量目標，實踐低碳建構×高效傳達的展場解決方案。

3 永續再造展場:紙花藝重複再利用

進場製作 ➡ 撤場再利用

紙花藝製作物，再延續展示使用，素材循環機制實踐超過 30% 物料減廢目標，落實低碳設計 × 高效資源運用。另外，風琴紙家具 (櫃台、座椅) 回收再利用。



	LED屏幕	電視螢幕	風巢板	紙花藝	風琴紙	沿用製作物
Reduce	▲	▲	▲			
Reuse	▲	▲		▲	▲	▲
Recycle			▲			

D 環境永續 30%



節能措施

A. LED 節能螢幕
B. LED 節能燈具

重複利用媒材

C. 重複利用中鼎燈殼字
D. 重複利用紙花藝
E. 重複利用風琴紙服務台
F. 重複利用風琴紙座椅

租借器材

G. 租借LED螢幕
H. 租借電視螢幕
I. 租借 Truss 結構

環保建材

J. 可回收蜂巢版結構

印刷品電子化

K. 永續倡議宣傳數位化

E 碳排放管理 20%

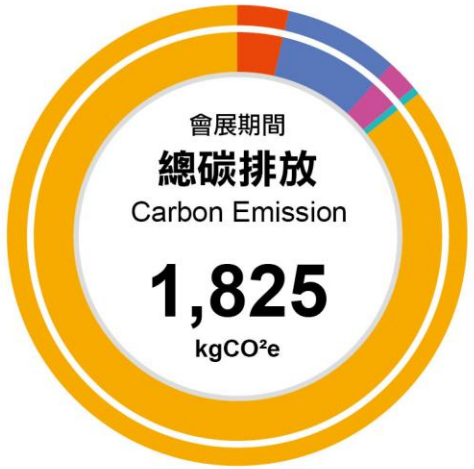
碳排放計算機 | 碳中和

總碳排放量預估約 1,825 $kgCO_2e$

中鼎集團購買聯合國認證碳權以達碳中和

數據來源為使用 MEET Taiwan 會展碳排計算機估算

碳排放管理



人 Travel	3.68%	
貨 Freight	8.22%	
食 Food	2.14%	
地 Energy	0.67%	
物 Production	85.29%	

人	人員往返交通總碳排放量	67	kgCO2e
貨	貨品運輸總碳排放量	150	kgCO2e
食	人員飲食總碳排放量	39	kgCO2e
地	設備能源總碳排放量	12	kgCO2e
物	製作物總碳排放量	1556	kgCO2e

總平均每格約 183 $kgCO_2e$

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2026 CTCI Group Sustainable Booth

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Design Concept: Sustainability Kaleidoscope

Integrating the sustainable concepts of Green Engineering, Circular Economy, and Smart Technology, CTCI creates a sustainable exhibition space that combines artistic aesthetics, environmental education, and interactive experiences, transforming sustainability into an immersive, engaging, and actionable journey.

Drawing inspiration from the diversity of plant life, the space utilizes circular materials such as honeycomb panels and paper floral art, paired with a large-scale LED light show, to shape a constantly evolving kaleidoscopic world, symbolizing natural cycles and sustainable vitality. The exhibition seamlessly integrates sustainability achievement displays, interactive water-cycle exhibits, and sustainability talks, guiding the public from awareness and experience to practice, understanding how CTCI uses high-tech green engineering and smart innovation to collaborate with the industry in advancing toward a net-zero future and creating sustainable value.



Zero Carbon, Zero Waste, Zero Distance Kaleidoscope Experience Area: Through immersive lighting, sound, and cutting-edge technology, CTCI's innovative green engineering solutions are transformed into engaging, easy-to-understand exhibits.



Sustainability Action Area: Visitors are invited to learn about the water cycle and water-saving practices through an interactive water-droplet installation, make a sustainability pledge, embrace the vision of "One Drop, One Earth," and take action together toward a more sustainable future.



Spatial Design | Blooming Sustainability

Towering pillars symbolize urban architecture, while the paper floral installations above represent green roof engineering, showcasing a sustainable vision of harmonious coexistence between nature and the city.
As visitors move through the space, they experience an immersive urban environment that fosters a direct dialogue with nature, inspiring a deeper appreciation for the value and potential of sustainable living.

Exhibition
Multimedia Stories × Shared Prosperity
CTCI Group's Sustainability Impact

Interactive
Sustainability Blueprint X Sustainability Commitment
Three Zeros for a Sustainable Future

Talks
Sustainability Themes X Visitor Engagement
Interactive Sustainability Talks

A Demonstrating Sustainable Value 20%



Exhibition **Multimedia Stories × Shared Prosperity**

CTCI Group's Sustainability Impact

CTCI Group focuses on water resource sustainability initiatives, zero carbon, zero waste, zero distance, and diversified well-being, connecting engineering innovation with social impact, and working with industry, the environment, and talent to create a sustainable future. The exhibition area uses video storytelling to transform sustainability issues into easily understandable content, guiding the public to understand sustainability concepts and concrete actions.

Highlights

Water Resource Sustainability Initiatives

- Reclaimed Water Engineering
- Industrial Water Circulation Systems
- Water Treatment Infrastructure
- Public Water Conservation Pledge

Navigating Net-Zero Towards Sustainability

- Green Engineering
- Green Technology
- Green Contracting
- Green Investment
- Fulfill of Net-Zero Commitment

Zero Waste Circular Economy

- High-Tech Zero waste Center
- Waste Solvent Recovery
- Waste-to-Energy
- Resources Recycling and Regeneration
- Operational Sites Biodiversity and Environmental Education

AI-driven industrial upgrading

- AI Intelligent Application
- Next-Generation Smart Factory
- Smart Construction Site Management
- Mr.OPX Introduction

Diversity and Social Impact

- Diverse talent recruitment, healthy workplace
- Sustainable Education and a Green New Lifestyle Movement
- Talent Cultivation Project by using CTCI University and CTCI Learning
- Purple Crow Butterfly Short Film Screening

A Demonstrating Sustainable Value 20%





From Nature to Engineering X Immersive Interaction
Exhibition Design |
In Bloom • A Kaleidoscope of Sustainability

- Built around the principles of the "Zero Carbon", Zero Waste, Zero Distance",an immersive kaleidoscope interactive experience is created.
- Through a combination of lighting, natural soundscapes, mirror reflections, and sensor technology, it illustrates the ecological cycle of 'Soil, Water, and Air.'
- As visitors enter the space, sensory technology automatically transforms natural imagery into relevant green engineering outcomes, enabling them to intuitively grasp our innovative projects and recognize our concrete sustainability actions.

Engagement × Education
One Drop, One Earth | Together for a Sustainable Future

- By interacting with a sliding water droplet, visitors trigger a video presentation on the water cycle that highlights 4 key pillars: climate, biology, daily life, and engineering. Returning their hands to the droplet completes the interactive experience, generating a visual representation of protective energy.
- By engaging visitors, CTCI deepens public awareness of sustainability, promotes the core concepts of water conservation and recycling, and fosters a collaborative force dedicated to protecting our planet.

B Creativity and Interaction 15%

Immersive Interaction: Floral Kaleidoscope



Through the strategic use of LED lighting to create a dynamic interplay of light and shadow, floral imagery is reimagined, expanded, and cyclically generated across the space. This evokes a vibrant realm of blooming flora that symbolizes the enduring vitality of sustainable development and the boundless potential of a prosperous future.

Immersive Interaction: In Bloom



Using nature-themed multimedia to welcome visitors, and once the sensor is triggered, the natural images are transformed into green engineering solutions that are “Zero Carbon, Zero Waste, and Zero Distance", demonstrating the transformation process of sustainability from nature to practice.

Interactive Experience: The Water Cycle



A 3D water droplet that combines sensor and interactive programming.

① Visitors can move a drop of water to the river to activate the cyclical story.

②At the end of the experience, place your palm on the water droplet to complete the initiative, and the water droplet will automatically return to its upper position.

B Creativity and Interaction 15%



Talks **Sustainability Themes X Visitor Engagement**

Interactive Sustainability Talks

The "Interactive Sustainability Talks" invites lecturers from both inside and outside the group to exchange sustainability concepts with the public. The 15 sessions promote dialogue among diverse generations and ethnic groups through videos, picture books, and interactive Q&A sessions, deepen sustainability education and advocacy, and convey CTCI's sustainability values.



Picture book instructors and parent-child interaction



Beautiful waterways association



Taiwan purple crow butterfly conservation association

C Community Inclusion 15%

Community Collaboration | Diverse Community Participation | Social Impact | Accessible Design

Community Engagement: Paper Cutting Artist



Drawing inspiration from diverse plant life, paper sculptor Mrs. Wang Li-Ling reinterprets biodiversity and natural resilience through paper art, crafting a kaleidoscopic installation symbolizing sustainable regeneration.

Inclusive Engagement: Interactive Sustainability Talks



Incorporating multi-generational perspectives, the Interactive sustainability talks series specially invites NGO partners to share their sustainability initiatives, bringing frontline perspectives that empower the public with a more diverse outlook on sustainability.

Social Impact: Sustainable Replication



After the exhibition, the paper floral art installations will be relocated to the CTCI headquarters lobby, continuing to convey the design concept of the sustainable kaleido-scope, extending the lifecycle of the exhibits, and fostering an environment that embodies the spirit of sustainability.

Accessibility design



Participate through a guided tour with a docent or via digital audio guide rentals



The entire exhibition area is entirely barrier-free and level-access, ensuring smooth and convenient navigation for wheelchair users.



Circular ECO Gift: Handmade Soap Made from Recycled Coffee Grounds

By reprocessing the used coffee grounds, waste resources are given new value.



D Environmental Sustainability 30%

1 Eco-friendly Materials Exhibition: Honeycomb Board / Accordion Paper / Paper Flowers art

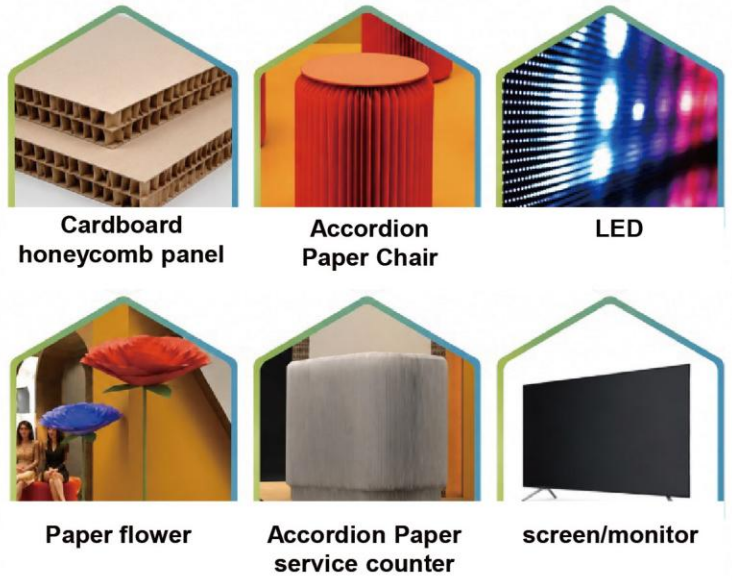
The exhibition area uses environmentally friendly materials such as honeycomb cardboard, accordion paper furniture, and paper flowers to create a lightweight, stable, and highly modular exhibition structure. After the honeycomb cardboard is removed from the exhibition, it will sent to recycling center, thus practicing zero-waste design throughout the entire exhibition process.

2 Cardboard Honeycomb panel structure and rental LED screen/monitor

Using ultra-low carbon emission, recyclable cardboard honeycomb panels as the main building material, combined with screen splicing to present the main interactive content, the exhibition achieved a reduction of more than 70% in graphic design, realizing a low-carbon construction × efficient communication exhibition solution.

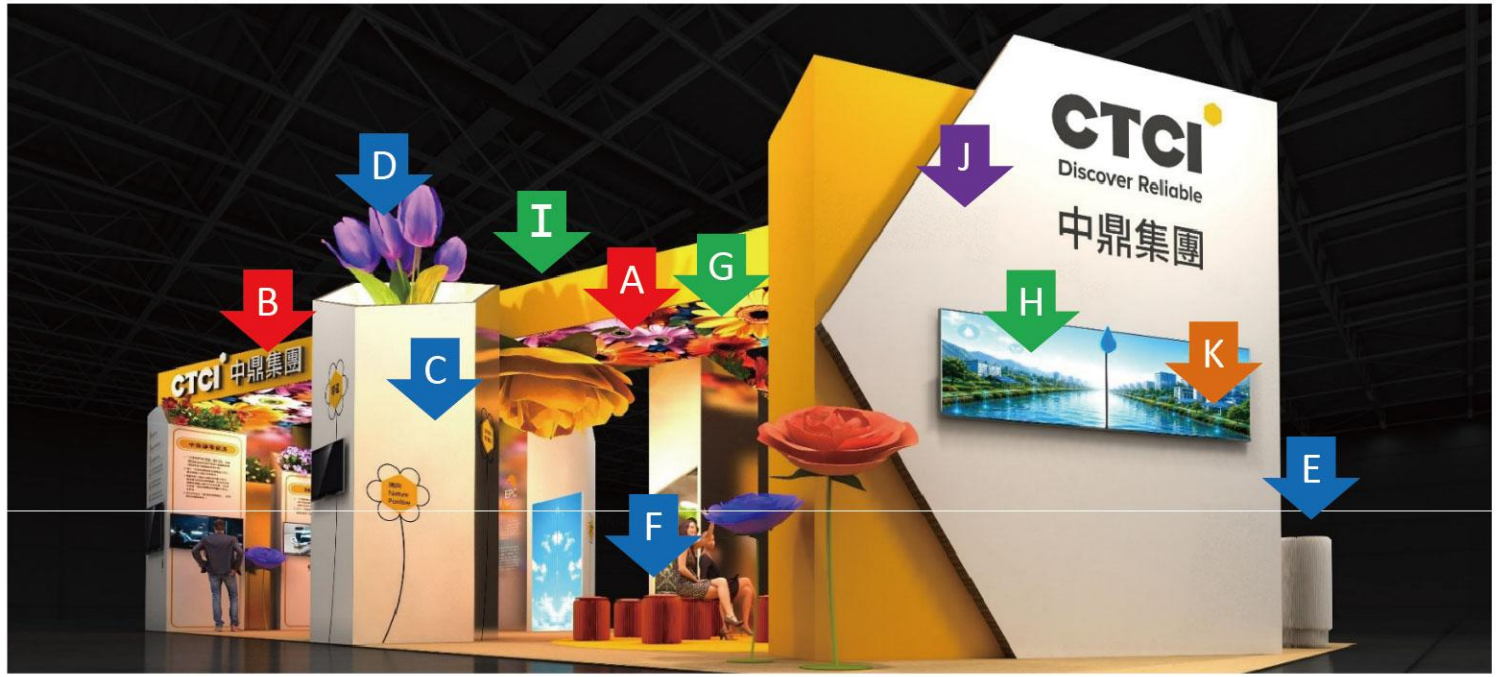
3 Sustainable Regeneration of Exhibition: Paper flower art reuse

Paper art installations are repurposed for ongoing display, establishing a closed-loop recycling mechanism that cuts material waste by over 30%. This approach embodies low-carbon design and resource efficiency, which is further complemented by the recycling and reuse of accordion paper furniture, including counters and chairs.



	LED screen	TV	honeycomb panel	Paper flower art	Accordion Paper	Reusable items
Reduce	▲	▲	▲			
Reuse	▲	▲		▲	▲	▲
Recycle			▲			

D Environmental Sustainability 30%



Energy Saving Measures

A. LED screen
B. LED fixture

Reusable Materials

C. I lettering sign
D. Paper flower art
E. Paper service desk
F. Paper seating

Leased Equipment

G. LED screen
H. Monitor
I. Truss structure

Eco-Friendly Building Material

J. Recyclable honey-comb panel structure

Paperless Advertising

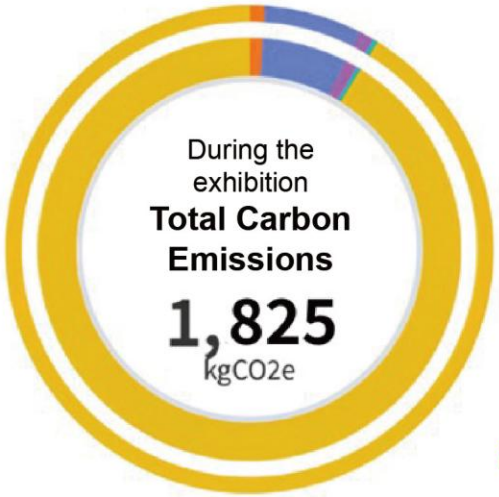
K. Digital Sustainability Initiative Promotion

Estimated total carbon emissions 1,825 $kgCO_2e$

To achieve carbon neutrality, the Group offset residual emissions through the procurement of UN-certified carbon credits.

Data sourced from MEET Taiwan MICE Carbon Calculator

Carbon Emission Management



Overall average per booth 183 $kgCO_2e$

3.68%	People	Total carbon emissions from personnel commuting	67 kgCO2e
8.22%	Goods	Total carbon emissions from goods transportation	150 kgCO2e
2.14%	Food	Total carbon emissions from personnel meals	39 kgCO2e
0.67%	Venue	Total carbon emissions from equipment energy usage	12 kgCO2e
85.29%	Material	Total carbon emissions from produced materials	1556 kgCO2e

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