



ALLIED SUSTAINABILITY AND  
ENVIRONMENTAL CONSULTANTS GROUP LIMITED  
沛然環保顧問有限公司

(Incorporated in the Cayman Islands with limited liability)  
Stock Code: 8320

2022/23

SUSTAINABILITY REPORT

可持續發展報告



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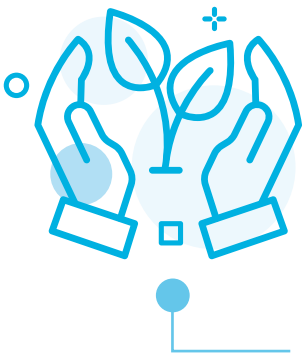
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# WHO WE ARE

## 公司簡介

Established in 1994, Allied Sustainability and Environmental Consultants Group Limited (the “Company”) is a key player in the future of sustainable development. The Company is the first sustainability and environmental consultancy service provider listed on The Stock Exchange of Hong Kong Limited (the “Stock Exchange”) and has served the society constantly across Hong Kong, Mainland China (the “PRC”) and the Asia Pacific region in delivering environmental solutions for decades.

沛然環保顧問有限公司(以下簡稱「本公司」)於一九九四年成立，是未來可持續發展的重要參與者。本公司亦是首家於香港聯合交易所有限公司(「聯交所」)上市的可持續發展及環境顧問服務供應商，數十年來，不斷為香港、中國內地(「內地」)和亞太地區的社會提供環境解決方案。



The Company has an extensive operations, demonstrated by its diverse project portfolio, spanning Hong Kong, the PRC and the Asia Pacific region. Sustainability is our fundamental value to our day-to-day business and working culture. To promote the importance of sustainability across society, the Company is dedicated to providing professional sustainability advisory services which brings benefits to our clients, human capital and the environment.

本公司擁有廣泛的營運網絡，其多元化的項目組合涵蓋香港、內地及亞太地區。可持續發展是我們日常業務和工作文化的基本價值。為推廣可持續發展的重要性，本公司致力提供專業的可持續發展諮詢，以造福我們的客戶、人力資本和環境。

# ABOUT THIS REPORT

## 關於本報告

### Reporting Period and Scope

This Sustainability Report (the “Report”) summarizes the Company’s environmental and social performances, accomplishments, and highlights of its major subsidiary, Allied Environmental Consultants Limited (“AEC” or the “Group”), in Hong Kong and Malaysia from 1 April 2022 to 31 March 2023 (the “Year”). Since September 2022, AEC had broaden its business from Hong Kong to Malaysia, which broaden the reporting scope of the Report. Activities undertaken by other subsidiaries are excluded from the Report.

In addition to providing an outline of AEC’s sustainability performance, this Report also underlines AEC’s efforts to construct resilience in the business and society with the provision of environmental solutions and stakeholder engagement.

### Reporting Framework and Standards

The Report is prepared in accordance with the Global Reporting Initiative (“GRI”) Standards 2021, and the Environmental, Social and Governance Reporting Guide (the “ESG Reporting Guide”) issued by the Hong Kong Exchanges and Clearing Limited (“HKEX”) as set out in Appendix 20 of the Rules Governing the Listing of Securities on GEM of the Stock Exchange (the “GEM Listing Rules”). The Group attaches to the principles introduced by the GRI standards and the ESG Reporting Guide to report on the measures and performances in the Year.

With an aim to further realize AEC’s sustainability commitment, the Report is also prepared in alignment with the Task Force on Climate-related Financial Disclosures (“TCFD”), the Ten Principles of the United Nations Global Compact (“UNGC”) and the United Nations Sustainable Development Goals (“UNSDGs”). More detailed information regarding AEC’s Corporate Governance is disclosed in the Annual Report in accordance with Appendix 15 of the GEM Listing Rules. HKEX has published a consultation paper seeking market feedback on proposals to enhance climate-related disclosures under the ESG framework. It proposed to mandate all issuers to make climate-related disclosures in their ESG reports, and introduce new climate-related disclosures aligned with the International Sustainability Standards Board (ISSB) Climate Standard. AEC has conducted assessment to evaluate the readiness to adopt ISSB-aligned climate disclosure and we are ready to fulfill it requirements provided that we close a few identified gaps upon the implementation of revised requirements.

### 報告期及範圍

本可持續發展報告(「本報告」)總結了本公司主要附屬公司，沛然環境評估工程顧問有限公司(「沛然環保」或「本集團」)於二零二二年四月一日至二零二三年三月三十一日(「本年度」)在香港和馬來西亞的環境及社會績效表現、成就，和亮點。自二零二二年九月起，沛然環保已將其業務從香港拓展至馬來西亞，故本報告範圍亦隨之擴展。其他附屬公司的所有業務則不包括在本報告範圍內。

除了概述沛然環保可持續發展的績效外，本報告亦重點描述沛然環保藉提供環境解決方案和持份者參與，為企業和社會建立抗禦力的所作出的貢獻。

### 報告框架及標準

本報告遵循全球報告倡議組織(「GRI」)準則2021，以及由香港交易及結算所有限公司(「香港交易所」)發出之聯交所GEM證券上市規則(「GEM上市規則」)附錄二十的環境、社會及管治報告指引(「ESG指引」)所編製。本集團遵照GRI準則及ESG報告指引的原則，以報告本年度的措施和表現。

為進一步實踐沛然環保的可持續發展承諾，本報告更參考氣候相關財務信息披露工作組(「TCFD」)、聯合國全球契約(「UNGC」)十項原則和聯合國可持續發展目標。有關沛然環保企業管治的相關資訊已另行於年報中根據GEM上市規則附錄十五作更深入的討論。香港交易所已刊發諮詢文件，就建議優化ESG框架下的氣候信息披露徵詢市場意見。其建議規定所有發行人在其ESG報告中披露氣候相關信息，以及推出符合國際可持續發展準則理事會(ISSB)氣候準則的新氣候相關信息披露要求。AEC已進行評估，以評估採用符合ISSB的氣候信息披露的準備情況，只要我們在實施修訂後的要求後彌補一些已發現的差距，我們就準備滿足其要求。



## ABOUT THIS REPORT

### 關於本報告

The Audit Committee and the Environmental, Social and Governance Committee (the “ESG Committee”) are responsible for reviewing and overseeing the Report in compliance with the GEM Listing Rules and other applicable requirements and standards.

#### Contact Information and Feedback

For more information about our businesses, please refer to AEC’s official website at <https://www.asecg.com>.

If you have any comments or questions regarding our sustainability disclosures and performance, please feel free to contact us at [info@aechk.com](mailto:info@aechk.com) or (852) 2815 7028.

審核委員會和環境、社會及管治委員會(「ESG委員會」)負責根據GEM上市規則及其他適用的規定和準則審閱及監督本報告。

#### 聯絡資料及反饋

有關我們業務的更多資訊，請參閱沛然環保的官方網站<https://www.asecg.com>。

如果您對本報告有任何意見或查詢，歡迎發送郵件至[info@aechk.com](mailto:info@aechk.com)或致電(852) 2815 7028與我們聯繫。

# FOREWORD

## 前言

Dear valued stakeholders,

On behalf of the board of Directors (the "Board"), I am delighted to take this opportunity to present our Sustainability Report for the year ended 31 March 2023. In light of the alleviation of the pandemic, it demonstrates the efforts AEC has placed to accelerate towards a decarbonized economy, healthy and safe communities, and fostering communications of stakeholders through knowledge-sharing.

### Commitment to Advancing Net Zero – Building a Carbon-Neutral Economy

As a pioneer in the industry, the Group has joined ranks of WorldGBC Asia Pacific Net Zero Collaborators and became one of the founding member of the Greater Bay Area Carbon Neutrality Association ("GBACNA") established in 2021. We are committed to utilize our expertise in the field of sustainability and environmental consultancy to collaborate closely with World Green Building Council in the Asia Pacific Region and aid the carbon neutrality development of the Greater Bay Area. Our sustainability endeavors are grounded on building a sustainable team culture from within. The Group has continued to work towards net-zero operations in our daily operations through office system upgrades as well as enhanced waste management initiatives.

### Creating a Healthy and Safe Community

Ensuring a safe and healthy environment is crucial for sustainable development. Throughout 2022–23, we have endeavored to improve the working environment for our employees, including real-time monitoring of indoor air quality and periodic water quality testing. We have also prioritized raising awareness of physical and mental health maintenance through our communication network. Our efforts have been recognized with the WELL Health-Safety Rating 2022 for providing a safe workspace. In 2022–23, we focused on mental wellness by participating in the Mental Health Workplace Charter, which is organized by the Department of Health, the Labour Department, and the Occupational Safety and Health Council.

致各位尊貴的持份者：

本人謹代表董事會(「董事會」)欣然發表本集團截至二零二三年三月三十一日止年度的可持續發展報告。在疫情的放緩下，沛然環保展示了為加速實現淨零經濟、打造健康和安安全社區及通過知識共享與持份者加強溝通所作出的努力。

### 承諾推進淨零排放 – 建設碳中和經濟

作為行業先鋒，本集團已加入世界綠色建築委員會亞太區淨零合作者的行列，並成為二零二一年成立的大灣區碳中和協會(「GBACNA」)的創辦成員之一。我們致力於運用我們在可持續發展和環境諮詢領域的專業知識，與世界綠色建築委員會在亞太地區緊密合作，幫助大灣區的碳中和發展。我們的可持續發展道路建基於從內部建立可持續發展為中心團隊文化。本集團通過辦公系統升級，以及加強廢物管理措施並在日常運作中繼續努力實現淨零操作。

### 締造健康安全的社區

安全和健康的環境是實現可持續發展的首要條件。在二零二二至二三年期間，我們一直在為員工改善工作環境，如實時監測室內空氣質量和定期檢測水質。我們還努力通過加高溝通來提高員工身心健康的意識。作為我們努力的證明，沛然環保的辦公室已被授予WELL健康—安全評價標識2022，以表彰我們在提供安全工作空間方面的努力。在二零二二年至二三年期間，我們通過參加由衛生署、勞工處和職業安全健康局的《精神健康職場約章》，將我們的重點轉移到心理健康方面。



## FOREWORD

### 前言

#### Fostering a Sustainable Future through Knowledge-sharing

Sustainable development is all about partnerships. As a leading sustainability and environmental consultancy firm in Hong Kong, our Group is committed to enhancing the industry's knowledge base locally and internationally. We offer comprehensive solutions ranging from identifying the material aspects of environmental, social and governance ("ESG") issues to formulating ESG implementation plans and preparing ESG reports. We had launched Sustainature, a one-stop ESG online management platform that simplifies the ESG data processing for enterprises of all types and analyzes and manages data in one place. We will continuously update the system based on our customers' feedback and our industry practices. Alongside promoting sustainability, we also hosted and participated in various industry events, knowledge sharing events, and career talks on sustainable development, climate change, and green finance in order to build synergistic partnerships among different stakeholder groups. Our employees are well-informed and trained on net-zero and sustainable development through regular lunch talks, workshops, seminars, and webinars. We believe that these intangible investments will yield long-term benefits towards net-zero development.

In the coming year, the Group will continue to seize opportunities and lead the way towards net-zero development. On behalf of the Board and our management team, I would like to extend my heartfelt thanks to our staff members, business partners, and clients for their steadfast support throughout the previous financial year.

**Kwok May Han Grace**

*Chairman and Executive Director*

27 June 2023

#### 通過知識分享促進可持續的未來

可持續發展建於合作關係。憑藉作為香港領先的可持續發展和環境顧問公司的地位，我們熱衷於加強本地和國際行業的知識基礎。我們提供全面方案，從識別環境、社會和管治(「ESG」)問題的重要方面、制定ESG實施計劃到編製ESG報告。我們已推出名為Sustainature的一站式ESG在線管理平台，簡化了各類企業的ESG數據處理流程，並在一個平台分析和處理數據。我們將不斷根據客戶的回饋和行業實踐來更新系統。除了促進可持續發展，我們還主辦和參與了各種針對可持續發展、氣候變化和綠色金融的行業活動、知識分享活動和職業講座，建立和不同持份者之間的夥伴關係。我們的員工也通過定期的午餐講座、研討會、和網路研討會，對淨零排放和可持續發展有充分的了解和培訓。我們相信，這些無形的投資將在實現淨零發展的長期過程中取得成果。

在未來的一年裡，本集團將繼續利用各種機會，帶領淨零排放發展。我謹代表董事會和我們的管理團隊，對我們的員工、業務夥伴和客戶在過去的財政年度裡的堅定支持表示衷心的感謝。

**郭美珩**

*主席兼執行董事*

二零二三年六月二十七日

# 2022/23 SUSTAINABILITY HIGHLIGHT

## 二零二二／二三可持續發展亮點

During the Year, we received various achievements and recognitions with our continuous commitment in promoting sustainability. We will continue to put effort on building a sustainable future.

在本年度，我們繼續致力於促進可持續發展，取得了多項成就和認可。我們將繼續努力建設可持續發展的未來。

**Number of sustainability awards and recognitions**  
可持續發展獎項和榮譽之數目

13

**Number of sustainability projects in the Year**  
本年度可持續發展項目之數目

164

**Estimated greenhouse gas ("GHG") emissions reduction of completed sustainability projects for our clients (tCO<sub>2</sub>e)**  
為我們客戶完成的可持續發展項目的預計溫室氣體減排量(噸二氧化碳當量)

396,295.30

**Wellness practices in the workplace**  
在職場上福祉方面的實踐

9

**Number of community educational activities (e.g. talks for promoting ESG, green finance)**

社區教育活動次數之數目(例如：宣傳ESG和綠色金融講座等)

14



# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

### Our Vision and Mission

Established in 1994, AEC's vision is to become a world-class one-stop environmental and sustainability consultancy service provider driven by the following mission:

### 我們的願景和使命

沛然環保成立於一九九四年，致力於成為世界一流的環境和可持續發展顧問服務供應商，並肩負以下使命：

1

Transforming cities with sustainable building designs

利用可持續建築設計重塑城市



2

Providing advanced mitigation solutions to minimize environmental impacts

提供先進的緩解方案，以對環境影響減至最低



3

Shaping a green future for the continuity of the greater good

締造綠色未來以延續美好世界



4

Educating the communities through capacity building and awareness enhancement programs on sustainability issues

透過能力提升和意識加強計劃促進社區對可持續發展議題的認識



5

Inspiring corporate social responsibility by adding sustainability values into business frameworks

將可持續發展價值貫徹業務框架以履行企業社會責任



# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

### Our Core Values

As a pioneer force in the sustainability and environmental consultant sector, AEC provides a sustainable route forward for our employees, clients, business partners, and the community. Under our sustainability framework, our works are directed by four key pillars – Wellness, Awareness, Environment and Collaboration.

### 我們的核心價值觀

沛然環保作為可持續發展和環境顧問領域的先鋒，為我們的員工、客戶、商業夥伴和社區提供了一條可持續發展的道路。在我們的可持續發展框架下，我們的工作由四個支柱組成－福祉、意識、環境和合作。





# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

| Pillars<br>支柱            | Application<br>應用  | Mapped UNSDGs<br>對應的聯合國可持續發展目標 |
|--------------------------|--|--------------------------------|
| <b>Environment</b><br>環境 | <p>We contribute to building sustainable cities and economies through the following solutions:</p> <p>我們通過以下解決方案為建設可持續城市和經濟作出貢獻：</p> <ul style="list-style-type: none"> <li>• Provide environmental impact assessments services that reduce the adverse environmental impact of urban development, e.g. ecological impact studies, drainage impact assessments<br/>提供環境影響評估服務，例如生態影響研究、排水影響評估，以減少城市發展對環境的不利影響</li> <li>• Actively promote green building certifications that drive green operations, e.g. circular economy practices, use of renewable energy and provision of green communal spaces<br/>積極推動綠色建築認證，以促進綠色營運，例如循環經濟實踐、使用可再生能源以及提供綠色公共空間</li> <li>• Provide ESG consultancy services that facilitate our corporate clients to swift decarbonization pathways and strengthen climate resilience<br/>ESG諮詢服務能幫助我們的企業客戶實現減碳途徑和強化氣候應變能力</li> </ul> |                                |

# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

| Pillars<br>支柱  | Application<br>應用   | Mapped UNSDGs<br>對應的聯合國可持續發展目標   |
|----------------|---|--|
| Wellness<br>福祉 | <p>We directly contribute to the well-being of the society through our services in the following areas:<br/>我們通過以下服務領域直接為社會福祉作出貢獻：</p> <ul style="list-style-type: none"> <li>• Provide environmental impact assessments services that monitor and mitigate negative health and safety impacts, e.g. land contamination, air, water and noise pollution<br/>提供環境影響評估服務，監測和減低對健康和安全的負面影響，例如土地污染、空氣、水和噪音污染</li> <li>• Promote sustainability-related building certifications that focus on the health and wellness of building occupants, e.g. WELL certifications<br/>推廣與可持續性相關的建築認證，例如WELL認證，注重於住客的健康和福祉</li> <li>• Provide acoustics, audio-visual and lighting design consultancy services that bolster occupants' well-being through the provision of pleasant acoustic and lighting environments<br/>提供聲學、視聽和照明設計諮詢服務，通過提供宜人的聲學和照明環境來提升使用者的福祉</li> <li>• We embrace people-centric principles and enhance our employees' wellness in the workplace through the following ways:<br/>我們奉行以人為本的原則，並通過以下方式提高員工在辦公室的健康： <ul style="list-style-type: none"> <li>• Provide healthcare coverage to all full-time employees<br/>為所有全職員工提供醫療保健服務</li> <li>• Maintain a safe, hygienic and comfortable workplace<br/>維持一個安全、衛生和舒適的工作場所</li> <li>• Uphold non-discriminatory policies and gender equality principles<br/>堅持非歧視政策和性別平等原則</li> <li>• Offer counseling services<br/>提供精神輔導服務</li> <li>• Offer parental leave to our staff<br/>為我們的員工提供侍產假</li> </ul> </li> </ul> |      |

# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

| Pillars<br>支柱              | Application<br>應用  | Mapped UNSDGs<br>對應的聯合國可持續發展目標  |
|----------------------------|--|---|
| <b>Awareness</b><br>意識     | <p>We promote sustainability awareness among our clients, employees and the community through the following ways:<br/>我們透過以下方式在客戶、員工間和社區中宣傳可持續發展意識：</p> <ul style="list-style-type: none"> <li>• Assist our clients in adopting sustainable practices and transparent ESG disclosures<br/>協助我們的客戶採用可持續的方法公開透明地報告和披露ESG議題</li> <li>• Carry out a sustainable management of resources at our office in the consumption of electricity, energy, water, and paper etc.<br/>率先在我們辦公室就消耗電力、能源、水和紙張等資源進行可持續管理</li> <li>• Nurture youths and the next generation with sustainability-related skills and knowledge through participation in seminars and talks<br/>通過參加研討會和講座，培養青年和下一代與可持續發展相關的技能和知識</li> </ul> |    |
| <b>Collaboration</b><br>合作 | <p>We recognize the importance of partnerships and strive to achieve synergy among stakeholders through the following approaches:<br/>我們認識到夥伴關係的重要性，並努力通過以下方法激活持份者之間的協同作用：</p> <ul style="list-style-type: none"> <li>• Demonstrate superior corporate governance practices<br/>以優秀的企業管治實踐作示範</li> <li>• Enhance capacity in diverse sectors through participation in associations<br/>通過參加不同的協會，提升不同部門的能力</li> <li>• Launch multi-stakeholder partnerships that advance industry innovation<br/>建立多方持份者的合作關係，推動行業創新</li> </ul>  |  |



# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

### Sustainability Governance

Good governance facilitates sustainability, creates sustainable values and drives the Group to practice its values. The Group has established an ESG Committee comprising of executive and independent non-executive directors. The ESG Committee, chaired by an executive Director, oversees all ESG-related topics and reports periodically to all Board members.

AEC's Sustainability Working Group (the "SWG"), under the ESG Committee, includes representatives from each team and department. The SWG comprises diverse talents and stances from a broad spectrum, allowing the Group to capture opinions through a bottom-up approach. Besides, the ESG-related policies and procedures are customized and analyzed by the SWG to facilitate sustainability awareness. The SWG is also responsible for advancing corporate social responsibility through commitments and targets.

The Audit Committee, Risk Management Committee, ESG Committee, and the SWG cooperate in investigating and identifying possible ESG risks and opportunities in daily operations to strategize and implement AEC's sustainability vision and objective.

In February 2022, AEC has established the Responsible Investment Committee, which is delegated to implement sustainable procurement practices, integrate responsible investment principles into the investment planning, taking into account the impact of ESG, sustainability, climate resilience, biodiversity and carbon neutrality.

### 可持續發展管治

良好的管治能促進可持續發展，創造可持續價值並推動本集團實踐其價值觀。本集團已成立由執行董事及獨立非執行董事組成的ESG委員會。ESG委員會由董事會擔任主席，負責監督所有與ESG相關的主題，並定期向所有董事會成員報告。

沛然環保的可持續發展工作組（「SWG」）隸屬於ESG委員會，其中包括來自各團隊和部門的代表。SWG由多元化的人才和背景構成，讓本集團能夠從自下而上的方式獲取意見。此外，SWG會負責定制和分析與ESG相關的政策和程序，以提高本集團的可持續發展意識。SWG亦會通過承諾和目標承擔企業社會責任。

審計委員會、風險管理委員會、ESG委員會和SWG合作分析和日常運營中可能存在的ESG風險和機遇，以制定和實施沛然環保的可持續發展願景和目標。

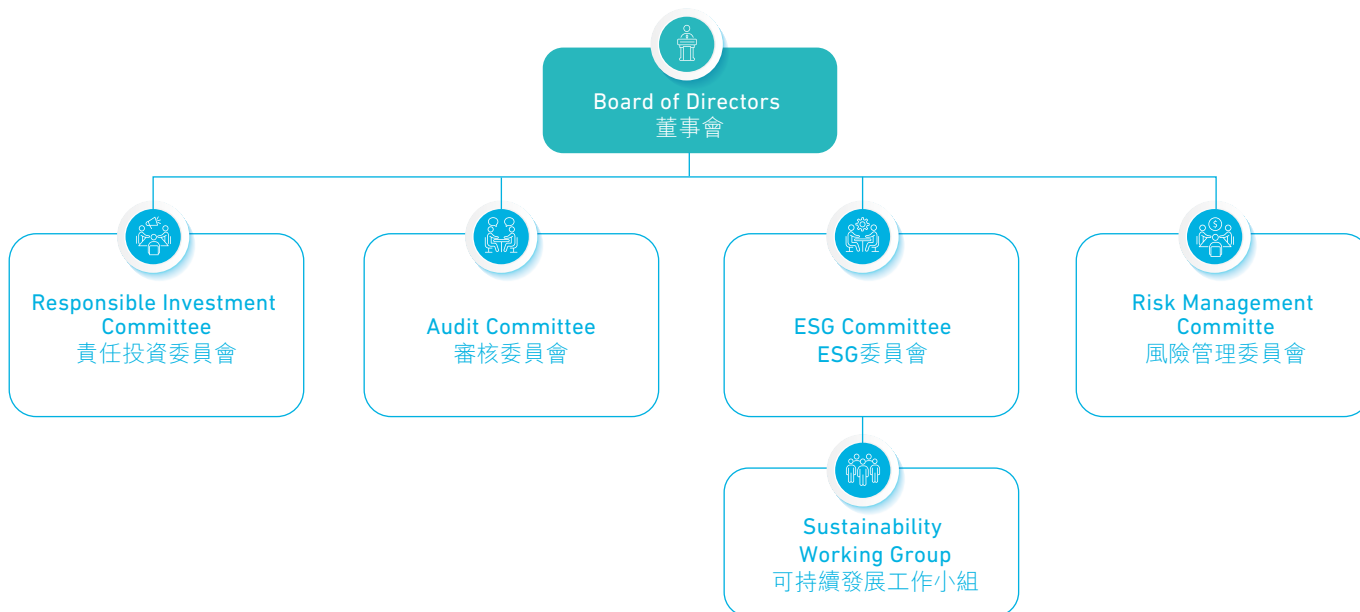
沛然環保於二零二二年二月成立責任投資委員會，致力於實踐可持續採購，並考慮到ESG、可持續性、氣候適應力、生物多樣性和碳中和的影響，將責任投資原則納入投資規劃。

# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

### Sustainability Governance Structure

### 可持續發展治理架構



AEC incorporates the concept of sustainability into the Group's principles, operational strategies, and operations. The ESG Committee implements sustainability policies on both environmental and social aspects.

沛然環保將可持續發展的概念融入集團的原則、運營策略和運營當中。ESG委員會在環境和社會方面實施可持續發展政策。

| Environmental Policies<br>環境政策  | Social Policies<br>社會政策   |
|---|---|
| Implement Environmental Management Systems ("EMS") in accordance with ISO 14001:2015<br>根據ISO 14001:2015實施環境管理系統(「EMS」) | Operate Quality Management Systems ("QMS") in accordance with ISO 9001:2015<br>根據ISO 9001:2015執行情質管理系統(「QMS」)                     |
| Optimize energy, water and other resources as efficient as possible<br>盡可能高效地優化能源、水和其他資源                                | Fulfill commitment as a Caring Company that cares about the employees, the community and the environment<br>履行「商界展關懷」對員工、社區和環境的承諾 |
| Reduce environmental impacts on business and maintain efficient and effective operation<br>減少業務對環境的影響，並保持高效有效的運營        | Promote sustainable procurement of products and services<br>促進產品和服務的可持續採購   |

# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

### Corporate Governance

### 企業管治



Adhering to strict business ethics and integrity, AEC is dedicated to strong corporate governance to assure fair and transparent operations. As stipulated in our Staff Handbook, employees must avoid and declare any potential conflicts of interest and benefits, for instance, gifts received while accomplishing their tasks. More details are disclosed in the Corporate Governance Report of our 2022/23 Annual Report.

In order to maintain a high standard of corporate governance, the Group is committed to enhancing anti-corruption awareness among its staff and provides anti-corruption training to staff and directors. Relevant personnel are required to understand the requirements of anti-corruption and integrity, and bribery in any form is strictly prohibited. During the Year, the Group has provided anti-corruption training to our staff, including directors.

Should there be any incidents of misbehavior and malpractice, employees are required to report to the administrative/human resources department through the reporting box – an anonymous whistleblowing mechanism. Upon receipt of any such report, an investigation shall be initiated by the legal department as soon as possible. During the Year, AEC was not convicted of any non-compliance with anti-corruption-related rules and regulations.

Moreover, effective from 2022, the HKEX has amended the rule on gender equality under the amended corporate governance code. AEC was well prepared to address the new update, as we have attained over 43% of women's representation on the Board.

沛然環保秉持嚴謹的商業道德及誠信，並致力於有效的企業管治，以確保公平而透明的企業運營。我們的員工手冊亦有申明，員工必須避免並聲明任何潛在的利益和利益衝突，如在完成任務時收取禮物。更多資訊可參閱我們於二零二二／二三年報中的企業管治報告。

本集團致力於提升員工的反貪污意識，並為員工及董事提供反貪污培訓，以維持高水準的企業管治。相關人員需要了解反腐倡廉的要求，並嚴禁任何形式的賄賂。本年度內，本集團已向包括董事在內的員工提供反貪污培訓。

若發現任何不當行為和瀆職事件，員工可通過舉報箱，以匿名舉報的方式，向行政或人力資源部門作出舉報。法律部門應會盡快啟動審查。本年度內，沛然環保並無被指控違反反貪污相關規則及法規。

此外，自二零二二年起，香港交易所在經修訂的企業管治守則下收緊了性別平等規則。沛然環保已為應對更新作好充分的準備，在我們董事會中已獲得了超過43%的女性代表。



# OUR APPROACH TO SUSTAINABILITY

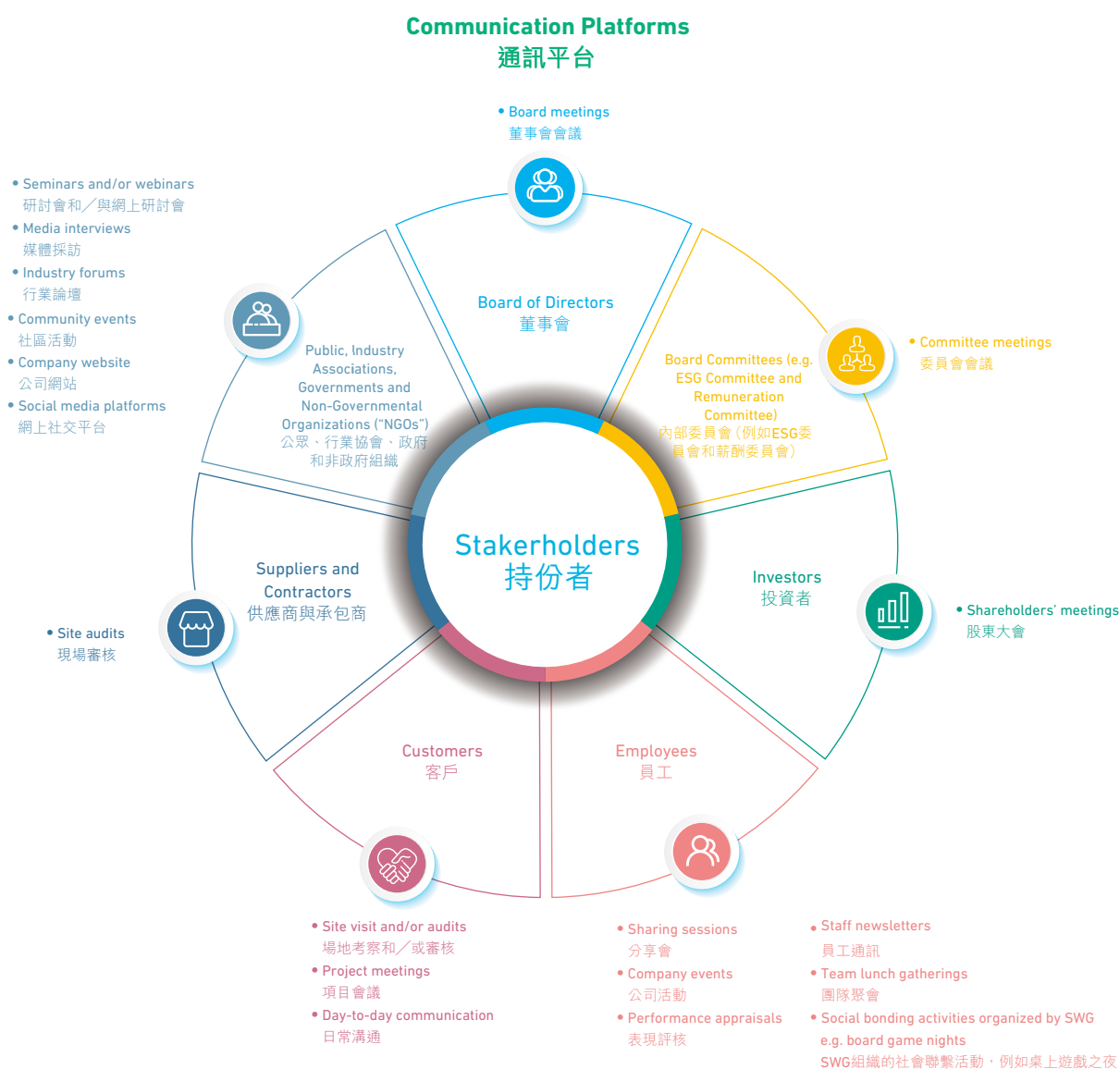
## 我們的可持續發展方針

### Stakeholder Engagement

Sustainable development is strongly linked to our stakeholders' feedback as they engage in our business activities and value chain. We treasure all opinions from our internal and external stakeholders as their views would assist our decision-making, and we have set up different communication platforms to connect with our stakeholders.

### 持份者參與

可持續發展涉及解決與我們在業務營運和價值鏈上的持份者的不同意見。我們重視來自內外持份者的所有意見，因為他們的意見會影響我們的決策，因此我們建立了不同的溝通平台來與我們的持份者聯繫。



# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

### Materiality Assessment

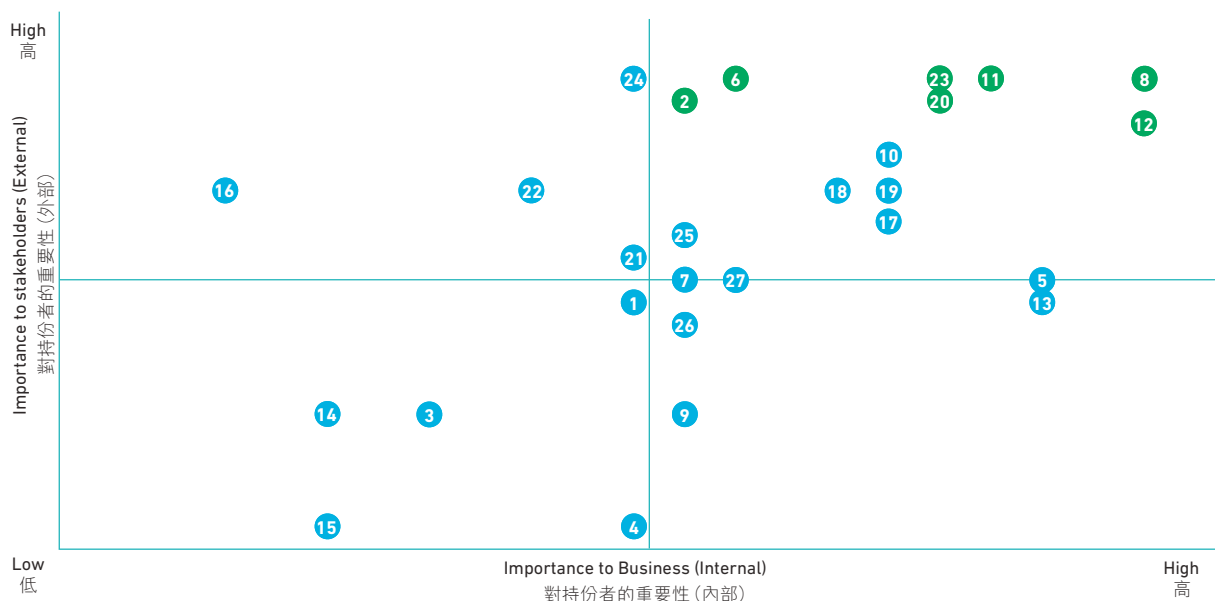
To identify, assess and prioritize our material ESG issues, AEC conducted a sustainability survey with external and internal stakeholders in the Year. Based on the results and feedback, AEC was able to review its performance and impacts on various sustainability aspects and adopt relevant responses and actions.

The following materiality matrix was generated to rank our material ESG issues. The Board, the ESG Committee and the SWG have confirmed its relevance for the Year and is continuously working to incorporate into AEC's sustainability roadmap and daily operations. The results of materiality assessment are also the focus areas of this Report.

### 重要性評估

為了識別、評估和優先考慮最重要的ESG議題，沛然環保在本年度與外部和內部持份者進行了可持續發展問卷調查。根據結果和反饋，沛然環保可以審查其在各個可持續性方面的表現和影響，並採取相關的回應和行動。

我們完成了以下重要性矩陣來對我們的重要ESG議題進行排名。董事會、ESG委員會和SWG已確認其與本年度的相關性，並不斷努力將其納入沛然環保的可持續發展路線圖和日常運營。重要性評估結果也為本報告的重點領域提供了信息。



# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

| 標碼 | 方面                             | 重要議題   |
|----|--------------------------------|--|
| 2  | Environment<br>環境              | Resource optimization<br>善用資源  |
| 6  |                                | Office waste management (e.g. paper and e-waste)<br>廢棄物管理 (如廢紙及電子廢棄物)                |
| 8  | Social<br>社會                   | Talent attraction<br>人才招攬  |
| 11 |                                | Employee professional training<br>員工專業培訓   |
| 12 |                                | Employee well-being and safety<br>員工福祉與安全  |
| 20 | Economic and business<br>經濟和業務 | Service quality<br>服務質素  |
| 23 |                                | Business ethics and integrity<br>商業道德與誠信   |
| 1  |                                | Sustainability awareness promotion<br>推廣可持續發展意識                                      |
| 3  |                                | Greenhouse gas and air emissions<br>溫室氣體及廢氣排放  |
| 4  |                                | Innovative building design<br>創新建築設計   |
| 5  |                                | Green office culture<br>綠色辦公室文化  |
| 7  |                                | Eco-friendly procurement (e.g. purchasing green office supplies)<br>環保採購 (如採購綠色辦公用品) |
| 9  |                                | Equal opportunities and non-discrimination<br>平等機會及無歧視                               |
| 10 |                                | Team communication and building<br>團隊溝通與建設   |
| 13 |                                | Employee satisfaction<br>員工滿意度   |
| 14 |                                | Workplace diversity (e.g. gender and racial diversity)<br>工作場所多元性 (如性別和種族多元化)        |
| 15 |                                | Community investment and involvement<br>社區投資及參與                                      |
| 16 |                                | Labor standards (e.g. preventing illegal labor)<br>勞工準則 (防止非法勞工)                     |
| 17 |                                | Workplace environment (e.g. comfort level in the office)<br>工作場所環境 (如辦公室的舒適度)        |
| 18 |                                | Financial performance<br>財務績效  |
| 19 |                                | Client satisfaction and feedback<br>客戶滿意度和反饋   |
| 21 |                                | Supplier/subcontractor quality<br>供應商/分包商質素  |
| 22 |                                | Supplier/subcontractor management<br>供應商/分包商管理                                       |
| 24 |                                | Anti-corruption<br>反貪污   |
| 25 |                                | Handling mechanism for complaints and inquiries<br>投訴和查詢處理機制                         |
| 26 |                                | Information privacy and protection<br>信息隱私與保護  |
| 27 |                                | ESG governance (e.g. Board's involvement in ESG issues)<br>ESG管治 (如董事會對ESG議題的參與)     |



# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

### Climate-related Financial Disclosures

TCFD was established in 2015 by the Financial Stability Board to help businesses to disclose their climate-related financial risks and relevant management approaches to investors and other stakeholders. HKEX intends to mandate the disclosure of TCFD-aligned climate-related disclosures by 2025. Under the TCFD framework, climate-related risks are categorized into physical and transition risks.

### 氣候相關財務信息披露

TCFD由金融穩定委員會於二零一五年成立，旨在幫助企業向投資者和其他持份者披露其與氣候相關的財務風險和相關管理方法。香港交易所計劃在二零二五年之前強制相關行業按照TCFD框架就氣候相關資料作出披露。在TCFD框架下，氣候相關風險分為實體風險和過渡風險。



Recognizing the risks and opportunities associated with climate change in our business, AEC is committed to adopting the TCFD framework to communicate our management approach to our stakeholders to address climate risks and opportunities. Following the recommendations of the TCFD, we disclose our management approach through the four core aspects, namely governance, strategy, risk management, and metrics and targets.

沛然環保意識到我們業務中與氣候變化相關的風險和機遇，致力於採用TCFD框架向我們的持份者展示我們應對氣候風險和機遇的管理方法。根據TCFD的建議，我們通過管治、策略、風險管理以及指標和目標這四個核心元素來披露我們的管理方法。

#### Climate Risks 氣候風險

#### Description 描述



Physical Risks  
實體風險

Increased intensity and frequency of extreme weather, as well as typhoons and sea level rises

極端天氣以及颱風和海平面上升的強度和頻率增加



Transition Risks  
過渡風險

Shift to a low-carbon economy, which may involve policy, legal, technological and market changes in response to climate change mitigation and adaptation requirements

轉向低碳經濟，這可能涉及政策、法律、技術和市場變化，以應對氣候變化的減緩和適應要求

# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

### Governance

AEC's governance on climate-related risks and opportunities is part of the sustainability governance. The Board is responsible for the oversight of climate-related risk management, which provides guidance on the overall direction of the management and conducts final decision-making. The ESG Committee and the SWG meet regularly and report to the Board on climate-related risk information. The Audit Committee, the Risk Management Committee, the ESG Committee, and the SWG collaborate with each another to analyze and manage potential climate risks and opportunities. The following sets out the details of the respective climate management related duties of each sustainability governance function.

### 管治

沛然環保對氣候相關風險和機遇的管治是可持續發展管治的一部分。董事會負責監督氣候相關風險管理，為管理層的總體方向提供指導並進行最終決策。ESG委員會和SWG定期舉行會議，並向董事會報告氣候相關風險信息。審計委員會、風險管理委員會、ESG委員會和SWG相互合作，分析和處理潛在的氣候風險和機遇。以下詳細介紹每個可持續發展管治職能的氣候管理相關職責。

| Sustainability Governance<br>可持續發展管治        | Climate Management Related Duties<br>氣候管理相關職責  |
|---|--|
| <b>Board</b><br>董事會                         | Oversee climate-related issues and set overall climate-related goals for the Company<br>監督氣候相關問題並為本公司設定與氣候相關的總體目標  |
| <b>ESG Committee</b><br>ESG 委員會             | Provide information and guidance on addressing sustainability issues and implementing measures<br>解決可持續性問題和實施措施提供信息和指導   |
| <b>SWG</b><br>可持續發展工作小組                     | Provide a wide range of perspectives, including reporting implementation difficulties and collecting opinions from different stakeholders<br>提供不同持份者觀點，包括報告實施困難和收集不同持份者的意見   |
| <b>Risk Management Committee</b><br>風險管理委員會 | Advise on matters that may have an impact on the risk management and practices related to climate-related financial risks<br>就可能影響與氣候相關金融風險相關的風險管理和實踐的事項提供建議   |
| <b>Audit Committee</b><br>審核委員會             | Oversee the Company's risk management framework to identify and deal with financial, operational, legal, regulatory, technology, business and strategic risks faced by the Company<br>監督本公司的風險管理框架，以識別和處理集團面臨的財務、運營、法律、監管、技術、業務和戰略風險 |

# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

### Strategy

In the Year, AEC further analyzed climate-related risks by using climate scenarios in the risk assessment with reference to the TCFD recommendations. We engaged our management and external stakeholders to identify climate-related risks relevant to our assets. We have adopted quantitative and qualitative scenario analysis to identify risk and develop a comprehensive strategy.

### Physical Risks

We have conducted climate assessment on our office's exposure to floods, sea-level rise, hurricanes and typhoons, heat stress and water stress to mid-term projection period, 2030–2040. This modeling allowed us to evaluate long-term risk exposure and the underlying risk drivers for each hazard. The result showed that there is an overall Nil to low risk level of floods, heat stress, water stress and wildfire, a low-medium risk level of sea level rise, and a high risk level regarding typhoons. Typhoons can directly damage physical buildings and can also cause indirect disruption through impacts on transportation, energy and communications infrastructure. In response to the physical risks of climate change, we have formulated contingency arrangements in case of extreme weather conditions for our operations.

### 策略

本年度內，沛然環保參考TCFD建議，在風險評估中使用氣候情景，進一步分析了氣候相關風險。我們聘請了管理層和外部持份者來識別與我們資產相關的氣候相關風險。我們採用定量和定性情景分析來識別風險並製定綜合策略。

### 實體風險

我們對辦公室進行中期預測，在二零三零年至二零四零年期間遭受洪水、海平面上升、颶風和颱風、熱壓力風險和缺水風險的風險進行了氣候評估。該模型使我們能夠評估長期風險敞口和每種危害的潛在風險驅動因素。結果表明，在洪水、熱壓力風險、水資源壓力和野火方面沒有或低風險水平，海平面上升為中低風險水平，而颱風的風險水平很高。颱風可以直接破壞實體建築，也可以通過對交通、能源和通信基礎設施的破壞造成間接影響。為應對氣候變化帶來的實體風險，我們為運營製定了極端天氣情況下的應急安排。





# OUR APPROACH TO SUSTAINABILITY

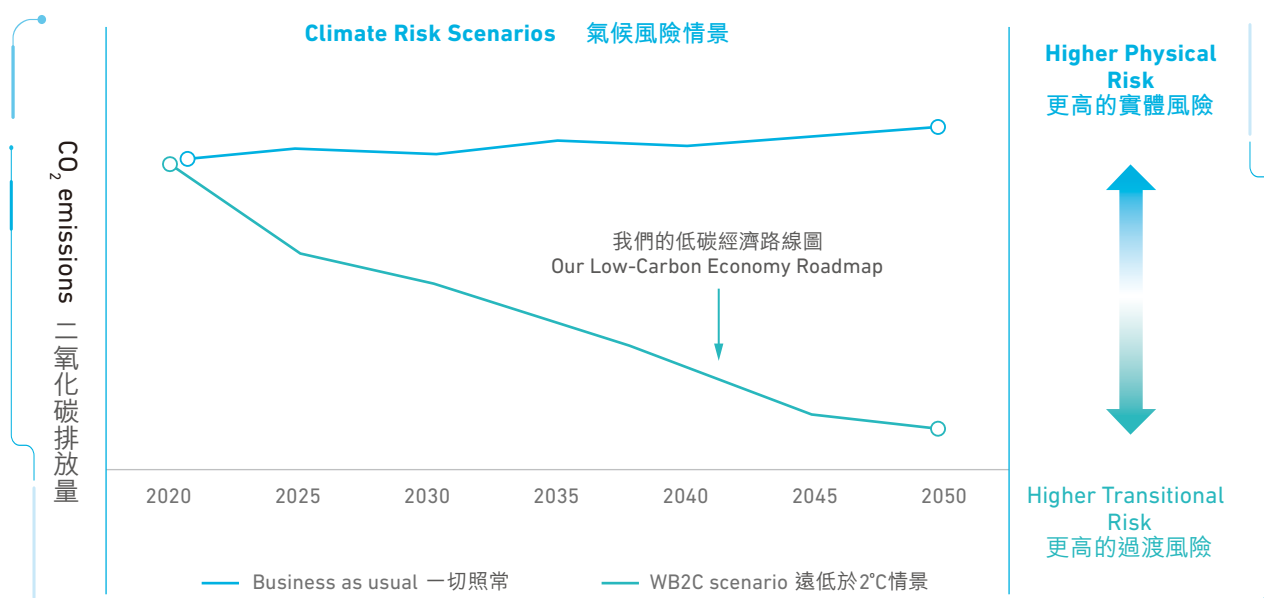
## 我們的可持續發展方針

### Transitional Risks

To steer towards a low carbon economy and future, AEC has committed to Science Based Target initiative ("SBTi") in alignment with a well-below 2°C (WB2C) scenario. In this scenario, we assume a rise in climate policy ambition and coordinated to limit global warming to well below 2°C. The Government and investors are focusing more on "Sustainable Investing" and customers are increasingly climate-conscious. Taking carbon reduction even further, we are also stepping up our commitment and pledged to the Business Ambition for 1.5°C and Towards Zero Carbon campaigns, with our commitment to a zero-carbon future.

### 過渡風險

為了邁向低碳經濟和未來，沛然環保已承諾科學基礎目標倡議（「SBTi」）與遠低於2°C的情景保持一致。在這個情景下，我們假設氣候政策雄心壯志，並協調將全球變暖限制在遠低於2°C的範圍內。政府和投資者更加關注「可持續投資」，客戶也越來越關注氣候。在進一步減少碳排放的同時，我們也正在加強我們的承諾，並承諾對1.5°C和邁向零碳運動的商業抱負，以及我們對零碳未來的承諾。



### Climate-related Opportunities

In addition to our internal commitments, we foresee an increase in the market demands for green building and ESG-related businesses. The Hong Kong Government has announced Hong Kong's Climate Action Plan 2050, which covered net-zero electricity generation, energy-saving and green buildings, green transport and waste reduction. It also offers transitional opportunities to AEC's business. As climate change risks increase in real estate and other industries, the market preferences are to gravitate towards more sustainable buildings and more robust ESG strategy formulation. We are expanding our consultancy services in the area of green finance, where more capital will be available to fund climate-related projects. Moreover, climate-related opportunities also include increase of resource efficiency, for instance, increasing the energy utilization efficiency can reduce operating costs. We have purchased REC, use of lower-emission sources of energy can reduce exposure to future fossil price increases.

### 氣候相關機會

除了我們的內部承諾，我們預計綠色建築和ESG相關業務的市場將會擴展。香港政府已公佈香港氣候行動藍圖2050，涵蓋淨零發電、節能綠建、綠色運輸和全民減廢。它還為沛然環保的業務提供了過渡機會。隨著房地產和其他行業的氣候變化風險增加，市場偏好傾向於更可持續的建築和更穩健的ESG戰略制定。我們正在擴大綠色金融領域的諮詢服務，將有更多資金用於資助氣候相關項目。此外，氣候相關機會還包括了資源效率提升，例如增加能源使用效率能降低營運成本。我們購買了可再生能源證書，使用低碳能源能使我們降低暴露在未來化石燃料價格上升的風險。

# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

### Risk Management

The Finance Department is responsible for the management and assessment of the Group's financial risks. Based on this financial data, the SWG further analyzes to identify climate-related risks and opportunities and reports to the ESG Committee and the Board.

### 風險管理

財務部負責本集團財務風險的管理及評估。基於這些財務數據，SWG進一步分析風險以識別與氣候相關的風險和機遇，並匯報ESG委員會和董事會。

| Climate-related Risks and Opportunities<br>氣候相關風險和機遇 |   | Potential Impact<br>潛在影響   | Our Climate Strategy<br>我們的氣候策略   |
|--|---|--|---|
| Physical Risks<br>實體風險                               | Increase of frequency and severity of extreme weather<br>極端天氣的頻率和嚴重程度增加 | Increased operation cost from increased health and safety insurance premiums<br>健康和安全保險費增加導致運營成本增加                           | Adopt enhanced policies to ensure a safe workplace for all our employees, including business continuity plans<br>採取強化政策，確保我們所有員工的工作場所安全，包括業務連續性計劃   |
|  |   | Increase physical impact on existing building and infrastructures<br>增加對現有建築和基礎設施的實體影響                                       | Expand our sustainability consultancy to tackle the impact from physical climate risks on buildings and organizations. For example, our consultancy services assist clients in addressing climate-resilient design. Sponge-city design ensures buildings are flood-resilient, while microclimate studies ensure the thermal comfort of outdoor areas to bolster heat stress resilience<br>擴展我們的可持續諮詢，以應對實體氣候風險對建築物和公司的影響。例如，我們的諮詢服務可幫助客戶解決氣候適應性設計問題。海綿城市設計確保建築物具有抗洪能力，而微氣候研究確保室外區域的熱舒適性以增強熱應力恢復能力 |
|  | Sea level rise<br>海平面上升   | More vulnerable to storm surges and coastal flooding, as our office is located near the harbor<br>位於海邊附近的辦公室更容易受到風暴潮和沿海洪水的影響 | Adopt enhanced policies to ensure a safe workplace for all our employees, including business continuity plans<br>採取強化政策，確保我們所有員工的工作場所安全，包括業務連續性計劃   |

# OUR APPROACH TO SUSTAINABILITY

## 我們的可持續發展方針

| Climate-related Risks and Opportunities<br>氣候相關風險和機遇   | Potential Impact<br>潛在影響  | Our Climate Strategy<br>我們的氣候策略  |
|--|---|--|
| <p><b>Transition Risks</b><br/>過渡風險</p> <p><b>Policy and legal risks</b><br/>政策和法律風險</p> <p>2023 – Mandatory regulation of municipal solid waste (MSW) charging<br/>二零二三年城市固體廢物 (MSW)收費的強制性規定</p> <p>2025 – Mandatory TCFD-aligned climate-related disclosures by HKEX<br/>二零二五年香港交易所強制的與TCFD一致的氣候相關披露</p> | <p>Increased human and financial resources expenditures in sustainability management<br/>可持續性管理方面的人力和財力支出增加</p>   | <p>Enhance our waste management and reduce diversion from landfill in our environmental policy<br/>在我們的環境政策中加強我們的廢物管理並減少棄置廢物到堆填區</p> <p>Expand our sustainability consultancy to tackle the impact from climate change on buildings, infrastructures and organizations<br/>擴展我們的可持續諮詢，以應對氣候變化對建築物、基礎設施和組織的影響</p>                       |
| <p><b>Technology risk</b><br/>技術風險</p>   | <p>Transition to low emissions technology<br/>向低碳技術過渡</p>   | <p>Keep abreast of the latest sustainable technological applications and innovative construction methods such as Air Improvement Photovoltaic (AIPV), Modular Integrated Construction (MiC) and introduce to our clients when deemed an effective solution<br/>定時了解最新的可持續技術應用和創新施工方法，例如空氣淨化太陽能(AIPV)、組裝合成建築法(MiC)，並為我們的客戶提供有效的解決方案</p> |
| <p><b>Market risk</b><br/>市場風險</p>   | <p>Increased market demand for climate-resilient and green building design<br/>市場對氣候適應性和綠色建築設計的需求增加</p> <p>Increased investor demands for green and low-carbon financing and investment<br/>投資者對綠色低碳投融資需求增加</p> | <p>Increase opportunities and revenue from green building and ESG business<br/>增加綠色建築和ESG業務的機會和收入</p> <p>Attract green investment and provide green finance consultancy services<br/>吸引綠色投資，提供綠色金融諮詢服務</p>   |
| <p><b>Reputation risk</b><br/>聲譽風險</p>   | <p>Increased risk of greenwashing<br/>漂綠風險增加</p>  | <p>Enhance credible third-party certification and sustainability benchmarking<br/>加強可信的第三方認證和可持續性基準測試</p>  |

## OUR APPROACH TO SUSTAINABILITY

### 我們的可持續發展方針

#### Metrics and Targets

The table below presents key metrics related to the impact of GHG emissions, energy, green building projects and ESG projects on the financial aspects of the Company related to revenue and expenditure.

#### 指標和目標

下表列出了與溫室氣體排放、能源、綠色建築項目和ESG項目對與收入和支出相關的財務方面的影響相關的關鍵指標。

| Financial Category<br>財務類別    | Climate-related Category<br>氣候相關類別      | Metric<br>指標   | Unit of Measure<br>單位  | 2022/23 | 2021/22 |
|-------------------------------|---|--|--|---------|---------|
| Revenue<br>收入                 | Risk Adaptation & Mitigation<br>風險應對與緩解 | Percentage of Revenue From Green Building Consultancy Projects<br>綠色建築顧問項目收入百分比      | %  | 58.8    | 50.4    |
| Revenue<br>收入                 | Risk Adaptation & Mitigation<br>風險應對與緩解 | Percentage of Revenue From ESG Reporting and Consultancy Projects<br>ESG報告與顧問項目收入百分比 | %  | 9.4     | 13.2    |
| Assets & Liabilities<br>資產與負債 | Risk Adaptation & Mitigation<br>風險應對與緩解 | Responsible Investment<br>責任投資   | HKD million<br>百萬港元  | 0       | 1.57    |
| Expenditure<br>支出             | Energy/Fuel<br>能源/燃料                    | Total Electricity Consumption<br>總耗電量  | kWh<br>千瓦時   | 129,616 | 79,081  |
| Expenditure<br>支出             | Energy/Fuel<br>能源/燃料                    | Total Energy Consumption<br>總能源耗量  | kWh<br>千瓦時   | 172,015 | 97,222  |
| Expenditure<br>支出             | GHG Emissions<br>溫室氣體排放                 | Total GHG Emissions (scope 1, 2, 3)<br>總溫室氣體排放量(範圍1, 2, 3)                           | Tonnes of CO <sub>2</sub> e<br>("tCO <sub>2</sub> e")<br>噸二氧化碳當量 | 100.97  | 63.55   |
| Expenditure<br>支出             | GHG Emissions<br>溫室氣體排放                 | GHG Emission Intensity<br>溫室氣體排放密度   | tCO <sub>2</sub> e/<br>Employee<br>噸二氧化碳當量/員工                    | 1.28    | 0.93    |

# OUR COMMITMENTS TO SUSTAINABILITY

## 我們對可持續發展的承諾

### Our Science-based Target and Participation in Race to Zero

The Group recognizes the severe impact of climate change and understands that humanity is facing an unprecedented crisis. As such, AEC strives to lead as a role model and has set decarbonization targets validated by the SBTi, in which AEC is committed to well-below 2°C scenario, reducing scope 1 and scope 2 GHG emissions by 30% compared to the base year (2018) by no later than 2030 and to measure and reduce its scope 3 emissions. AEC is currently working to update its greenhouse gas reduction targets to limit global warming to 1.5°C. Apart from SBTi-validated near-term target, AEC has also publicly announced its commitment to achieve net-zero by 2030.

### 我們的科學基礎目標和參與「奔向零碳」

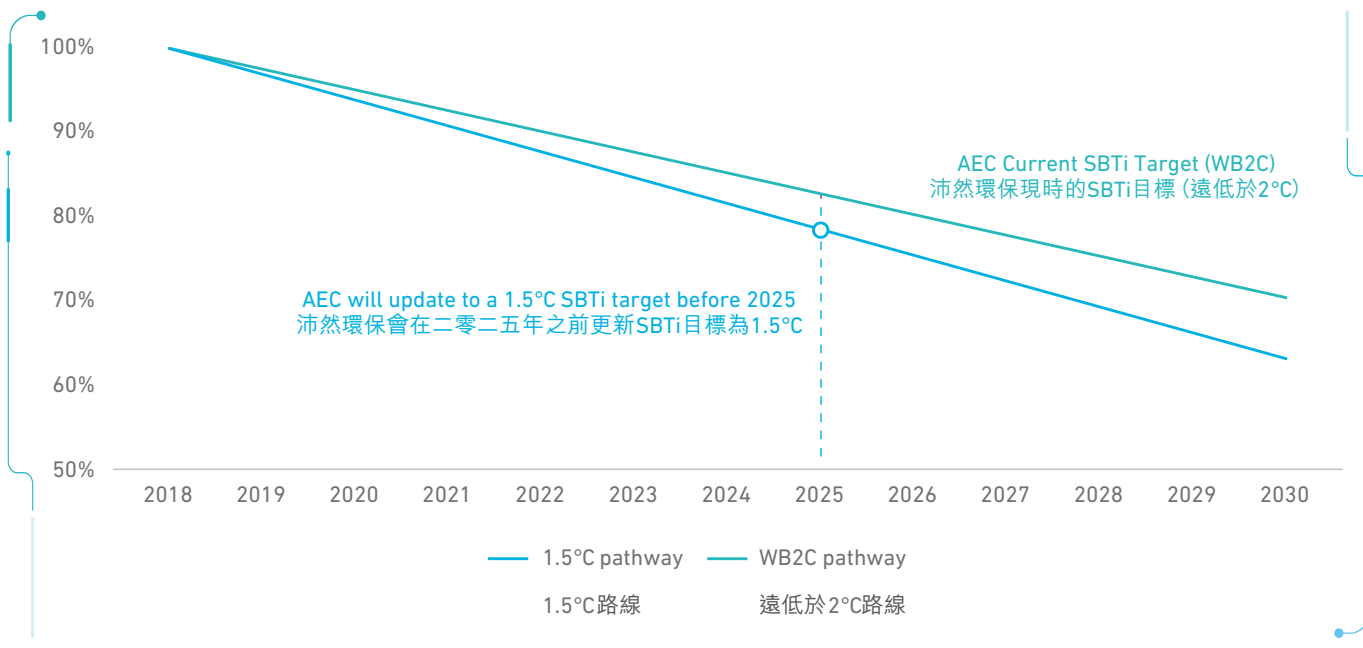
本集團意識到氣候變化的嚴重影響，並理解人類正面臨前所未有的危機。因此，沛然環保努力以身作則，並製定了經過SBTi(科學基礎目標倡議組織)驗證的減排目標，其內容為沛然環保致力於遠低於2°C的情景，與基準年(二零一八年)相比，不遲於二零三零年將範圍1和範圍2溫室氣體排放量減少30%，並測量和減少其範圍3排放量。沛然環保目前正在努力更新其溫室氣體減排目標，以將全球變暖限制在1.5°C。除經過SBTi驗證的近期目標外，沛然環保亦致力於二零三零年前達成零碳排放。



Beyond the current science-based target, the Group is also a part of the UN-backed Race to Zero campaign. The campaign aims to halve global emissions by 2030 and achieve net-zero carbon emissions by 2050 at the latest.

除了目前的科學基礎目標之外，本集團也是聯合國支持的奔向零碳運動的成員之一。該運動旨在到二零三零年將全球碳排放量減半，最遲到二零五零年實現淨零排放。

AEC SBTi Roadmap 沛然環保的SBTi路線圖





# OUR COMMITMENTS TO SUSTAINABILITY

## 我們對可持續發展的承諾

In order to work towards a zero-carbon future, AEC has formulated a net-zero roadmap to transit to a low carbon economy and living. The details of roadmap are as follows:

為了實現淨零未來，沛然環保制定了淨零路線圖，以過渡至低碳經濟和生活。詳細信息如下所示：

### Reduction of GHGs

#### 減少溫室氣體排放

##### Scope 1:

##### 範圍1：

- Conduct face to face meetings to online virtual meetings as far as is possible  
將面對面會議轉為網上會議
- Change to electric cars  
改用電動車

##### Scope 2:

##### 範圍2：

- Smart lighting  
智能照明
- Room temperature control  
室溫控制
- Enhance energy efficiency  
提高能源效益

##### Scope 3:

##### 範圍3：

- Smart water tap  
智能水龍頭
- Dual water flushing  
雙鈕式沖水
- Waste recycle  
廢物回收
- EPD waste recycle scheme  
環保署廢物回收計劃

### Renewable Energy Certificates ("RECs")

#### 可再生能源證書

##### Scope 2:

##### 範圍2：

- Purchase RECs from local electric companies  
從本地電力公司購買可再生能源證書
- Purchase reputable I-RECs  
購買認受性高的國際可再生能源證書

### Offsetting Any Remaining GHG Emissions

#### 抵消任何剩餘的溫室氣體排放

##### Scope 1, 2 and 3:

##### 範圍1、2和3：

- Purchase carbon offset credits  
購買碳抵消信用

## OUR COMMITMENTS TO SUSTAINABILITY

### 我們對可持續發展的承諾

#### Commitment to Carbon Neutrality with WorldGBC and GBACNA

To achieve carbon neutrality targets established in the PRC and Hong Kong, AEC is proud to join ranks of WorldGBC Asia Pacific Net Zero Collaborators and be the founding member of GBACNA, which strengthens international exchanges and collaborations, seeks for the optimal governance towards climate change and works together to protect the earth.

As one of the WorldGBC Asia Pacific Net Zero Collaborators, AEC is collaborating closely with WorldGBC in the Asia Pacific Region to increase confidence and motivation to achieve a net-zero built environment. It represents perspectives from diverse sections of the buildings value chain, providing further insights, as well as resourcing the roll out of WorldGBC's Advancing Net Zero program, a global project working towards all sector decarbonization by 2050, in the Asia Pacific region.

Carbon neutrality is the only option to promote the systematic change of economy and society in line with the trend of global ecological management change. The missions and objectives of GBACNA are to facilitate the country's dual carbon reduction targets under climate change and meet international commitments, promote green carbon neutrality and industry transformation in the Greater Bay Area, utilize the expertise of GBA to promote the development of green technology, develop green finance and carbon trading market in the Greater Bay Area, etc.. As a member of the WorldGBC Asia Pacific Net Zero Collaborators and a founding member of the GBACNA, AEC will continue to assist and play a key part in promoting carbon neutrality of the Greater Bay Area.

#### 承諾與世界綠色建築委員會和大灣區碳中和協會一同實現碳中和

為實現內地和香港所設立的碳中和目標，沛然環保很榮幸能列入世界綠色建築委員會亞太地區淨零合作夥伴之一，並成為大灣區碳中和協會的創始成員，以加強國際間的交流與協作，並尋求最佳管理氣候變化的方法，以共同保護地球。

作為世界綠色建築委員會亞太地區的淨零合作夥伴之一，沛然環保與亞太地區的世界綠色建築委員會緊密合作，以加強實現在建築行業碳淨零的決心和行動力。沛然環保代表建築價值鏈不同界別的觀點，提供進一步的見解，並為世界綠色建築委員會致力於二零五零年前在亞太地區實現整體行業脫碳的全球項目淨零計劃之推進提供資源。

碳中和是應對全球生態管理變化的趨勢下，推動經濟社會系統性變革的唯一選擇。為此，大灣區碳中和協會的使命和目標是促進國家在氣候變化下的雙重碳減排目標、履行國際間的承諾、促進大灣區的綠色碳中和及產業轉型、利用大灣區的專業知識促進綠色科技的發展、以及發展綠色金融和大灣區碳交易市場等。作為世界綠色建築委員會亞太地區淨零合作組織的一員和大灣區碳中和協會的創始成員，沛然環保將繼續努力，加速實現大灣區碳中和。

## OUR COMMITMENTS TO SUSTAINABILITY

### 我們對可持續發展的承諾

#### Our Commitment to Wellness

One of our most important goals is to maintain a safe and harmonious working environment for our employees. We continuously enhance health and safety measures in our workplace and we were pleased to received the WELL Health-Safety seal in consecutive years of 2021 and 2022, which showed the recognition of our continuous effort on employees' wellness. We monitor our office's indoor air and water quality strictly by conducting air quality and water quality assessment on a regular basis to ensure that the indoor data meets the standards. Besides physical wellness, we are expanding our attention to mental wellness and have participated the Mental Health Workplace Charter initiated by the Advisory Committee on Mental Health.

#### 我們對健康的承諾

我們最重要的目標之一是為我們的員工維護一個安全和諧的工作環境。我們不斷加強我們的工作場所健康和安全措施，我們很高興在二零二一年和二零二二年連續獲得WELL健康—安全標識，這表明我們對員工健康的持續努力得到認可。我們嚴格監控辦公室的室內空氣和水質，定期進行空氣質量和水質評估，確保室內數據達標。除了身體健康，我們正將注意力轉移到心理健康，並已參與由心理健康諮詢委員會發起的《精神健康職場約章》。



Our commitments to wellness – WELL Health-Safety rating to help fight against COVID-19  
我們對健康的承諾 – WELL健康安全評價以助對抗2019冠狀病毒病

# OUR COMMITMENTS TO SUSTAINABILITY

## 我們對可持續發展的承諾

### Progress Report against UNGC 10 Principles

AEC is a signatory to the United Nations Global Compact (UNGC) which outlines 10 Principles for responsible business activities that endeavor to do no harm and advance positive impacts on our environment and society. The following is our progress in advancing the 10 Principles during the Year.

### 聯合國全球契約十項原則進度報告

沛然環保是聯合國全球契約(UNGC)的簽署方，該契約概述了作為負責任的商業活動的十項原則，這些活動致力於不傷害並促進為我們的環境和社會帶來積極正面影響。以下是我們在本年度推進十項原則的進展。

| Principle<br>原則  | AEC's Approach<br>沛然環保的方法  | Sections<br>章節                                 |
|--|--|--|
| <b>Human rights<br/>人權</b>   |  |  |
| <p>1. Businesses should support and respect the protection of internationally proclaimed human rights<br/>企業應該尊重和維護國際公認的各項人權</p> | <p>AEC values human rights and creates a healthy and safe working environment for our staff. Our office has installed air purifiers to improve indoor air quality. Regarding the acoustics comfort, acoustic foam was installed at the ceiling to reduce the noise from the surrounding which provides a comfortable and quiet environment to our employees.<br/>沛然環保重視人權，為我們的員工創造一個健康安全的工作環境。我們的辦公室內安裝了空氣淨化器並改善了室內空氣質素。在聲學舒適度方面，我們在天花板上安裝了吸音棉，以減少周圍的噪音，為我們的員工提供舒適安靜的環境。</p> | <p>Our Commitment to Wellness<br/>我們對健康的承諾</p> |
| <p>2. Businesses should make sure that they are not complicit in human rights abuses<br/>企業決不參與任何漠視與踐踏人權的行為</p>                  | <p>Besides, AEC focuses on staff's mental health. A human resources advisor who provides counseling services is available. We also promise to protect employees' privacy and ensure proper handling and management of confidential personal information.<br/>此外，沛然環保關注員工的心理健康。人力資源顧問提供心理諮詢服務。我們還承諾保護員工的隱私，並確保妥善處理和管理機密的個人信息。</p>   | <p>Our Sustainable Team<br/>我們的可持續團隊</p>       |

# OUR COMMITMENTS TO SUSTAINABILITY

## 我們對可持續發展的承諾

| Principle<br>原則  | AEC's Approach<br>沛然環保的方法   | Sections<br>章節                             |
|--|---|--|
| <b>Labor</b><br>勞工標準   |   |  |
| 3. Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining<br>企業應該維護結社自由，承認勞資集體談判的權利 | A range of recruitment standards and policy are stipulated. To prevent child labor, forced labor and any forms of illegal labor, the validity of identity documentation, age and working permit of the candidates are verified by administrative/human resources department.<br>沛然環保規定了一系列招聘標準和政策。為防止童工、強迫勞動和任何形式的非法勞工，申請人的身份證件、年齡和工作許可證的有效性由行政／人力資源部門核實。   | Our Sustainable Team<br>我們的可持續團隊           |
| 4. Elimination of all forms of forced and compulsory labor<br>該消除各種形式的強迫性勞動  | We endeavor to respect the uniqueness of our staff and create an inclusive and diverse working environment, upholding the principles of equal opportunities regardless of race, ethnic background, sexual orientation, and gender. We organize team building activities regularly to cultivate a harmonious working culture among the company.<br>我們努力尊重員工的獨特性，並創造一個包容和多元化的工作環境，不分種族、民族背景、性取向和性別，給予平等機會。我們定期組織團隊建設活動，在公司內部營造和諧的工作文化。  | Partnerships Towards Net-Zero<br>邁向淨零的夥伴關係 |
| 5. Effective abolition of child labor<br>有效廢除童工制度  |   |  |
| 6. Elimination of discrimination in respect of employment and occupation<br>消除就業和職業方面的歧視   | We cherish our staff's opinions. Therefore, we conduct an open and transparent dialog with our colleagues annually. Through doing surveys, we can obtain our employees' feedback on different aspects, including compensation package, workplace, benefits, corporate image, training and development and team building. This "bottom-up" approach allows AEC to receive opinions from the employees and fulfill their contentment.<br>我們珍惜員工的意見。因此，我們每年都會與同事進行公開透明的對話。通過調查，我們可以獲得員工對薪酬方案、工作場所、福利、企業形象、培訓和發展以及團隊建設等不同方面的反饋。這種「由下而上」的方法使沛然環保能夠接收員工的意見並滿足他們的需求。<br><br>In addition, to communicate with staff and exchange ideas among departments and top management, staff meetings are conducted on a regular basis. AEC also provides feedback to our staff members annually. This two-way communication allows employees and their seniors to discuss and improve performance.<br>此外，為了與員工溝通，部門和高層管理人員之間交換意見，我們定期召開員工會議。沛然環保還每年向我們的員工提供反饋。這種雙向溝通允許員工和他們的上級討論和提高績效。 |  |



# OUR COMMITMENTS TO SUSTAINABILITY

## 我們對可持續發展的承諾

| Principle<br>原則   | AEC's Approach<br>沛然環保的方法   | Sections<br>章節   |
|---|---|--|
| <b>Environment<br/>環境</b>   |   |  |
| 7. Businesses should support a precautionary approach to environmental challenges<br>企業應支持對環境挑戰未雨綢繆   | AEC adopts a precautionary approach to climate action. Climate projections encompass a level of uncertainty, however it has not deterred AEC from driving proactive climate action given the potential climate impacts of catastrophic scale. As such, AEC has pledged to the SBTi, the worldwide initiative that supports business companies to minimize their GHG emission with a global temperature alignment for a goal to reduce its scope 1 and 2 emission before 2030 by 30%.<br>In addition, AEC has cooperated with the WorldGBC to offer net-zero solutions in the property development and management sectors.<br>Since AEC is one of the members agreeing to attain net-zero emission by 2030, a net-zero roadmap navigating to the target was initiated.<br>沛然環保對氣候行動採取預防措施。氣候預測包含一定程度的不確定性，但考慮到災難性規模的潛在氣候影響，它並沒有阻止我們積極推動的氣候行動。因此，沛然環保已向科學基礎倡議組織作出承諾，這是一項全球倡議，商業公司支持通過全球溫度調整來最大限度地減少溫室氣體排放，以實現在二零三零年之前將其範圍1和範圍2排放量減少30%的目標。此外，沛然環保與世界綠色建築委員會合作，在房地產開發和管理領域提供淨零解決方案。由於沛然環保是承諾到二零三零年實現淨零排放的成員之一，因此制定了目標的淨零排放路線圖。   | Our Commitments to Sustainability<br>我們對可持續發展的承諾<br><br>Accelerating Decarbonization<br>促進減碳 |
| 8. Undertake initiatives to promote greater environmental responsibility<br>主動增加對環保所承擔的責任             |   | Partnerships Towards Net-Zero<br>邁向淨零的夥伴關係   |
| 9. Encourage the development and diffusion of environmentally friendly technologies<br>鼓勵開發和推廣環境友好型技術 | Enhancing energy efficiency is one of the fundamental steps to achieve the target. As we are aware that using resources efficiently can reduce the environmental impacts and expand the resilience on business continuity and minimize our operation cost, we keep monitoring and managing our energy usage pattern with smart devices.<br>加強能源效率是實現目標的基本步驟之一。我們深感了解到有效利用資源可以減少對環境的影響，擴大業務連續性的彈性並最大限度地降低我們的運營成本，我們通過智能設備持續監控和管理營運上的能源使用模式。<br><br>Our core business is to provide environmental solutions to our clients. We motivate our clients to take up more environmental responsibility in their building projects. For example, selecting sustainable building materials and installing high efficiency facilities. Also, to extend the environmental responsibility to our business value and community, we share sustainability ideas among our suppliers and the public by organizing career talks, symposiums, webinars and other community participation activities.<br>我們的核心業務是為客戶提供環境解決方案。我們鼓勵客戶在他們的建築項目中承擔更多的環境責任。例如，選擇可持續建築材料和安裝高效設施。此外，為了將環境責任延伸到我們的商業價值和社區，我們通過組織職業講座、研討會、網絡研討會和其他社區參與活動，在供應商和公眾之間分享可持續發展理念。 |  |

# OUR COMMITMENTS TO SUSTAINABILITY

## 我們對可持續發展的承諾

| Principle<br>原則   | AEC's Approach<br>沛然環保的方法  | Sections<br>章節               |
|---|--|------------------------------|
| <b>Anti-corruption</b><br>反貪污   |  |                              |
| 10. Businesses should work against corruption in all its forms, including extortion and bribery<br>企業應反對各種形式的貪污，包括敲詐勒索和行賄受賄 | AEC prohibits any form of corruption and bribery. Our staff received a staff handbook that includes the session of Code of Conduct. The staff is informed that soliciting or accepting any advantage in connection with his/her work without consent from AEC is strictly forbidden. In order to allow our employees to report any misconduct and malpractice anonymously to the administrative/human resources department, whistleblowing mechanisms are established. The legal department shall then conduct investigation promptly. Regarding anti-corruption and bribery, no major non-compliance with the laws and regulations nor whistleblowing incidents were reported during the Year.<br>沛然環保禁止任何形式的貪污和賄賂。我們的員工收到了包含行為準則的員工手冊。沛然環保嚴禁員工在未經公司許可的情況下索取或接受與其工作有關的任何利益。為了讓員工能夠匿名向行政／人力資源部門舉報任何不當行為和瀆職行為，我們建立了舉報機制。法務部門應及時進行調查。在反貪污賄賂方面，本年度未發生重大違法違規和舉報事件。 | Corporate Governance<br>企業管治 |

# ACCELERATING DECARBONIZATION

## 促進低碳

### Core values: Wellness and Environment

#### Expanding our Sustainability Footprints

AEC has been pioneering and expanding its services into this area to help building a sustainable city, and advance towards a decarbonized world. Our business is based in Hong Kong, and we operate in Hong Kong, the PRC and Asia Pacific.

AEC promises to provide our clients with high-quality and satisfactory services and products. AEC supervises the quality of service and product in accordance with the ISO 9001:2015 Quality Management System ("QMS") to ensure professional and reliable service to clients, from project planning and management to execution and monitoring.

AEC has always been at the forefront of sustainable development, and recently, the movement of advancing towards net-zero. In the quest of achieving our shared goal of advancing net zero alongside with our clients, AEC strives to provide a one-stop solution-based service that covers environmental and sustainable services:



### 核心價值觀：福祉和環境

#### 擴展我們的可持續發展足跡

沛然環保一直在開拓和擴展各個部門的業務，以助建設可持續發展的城市並邁向一個低碳的世界。我們的業務總部設在香港，並且我們在香港、內地和亞太地區開展業務。

沛然環保承諾為我們的客戶提供高質量及令人滿意的服務和產品。沛然環保根據ISO 9001:2015質量管理系統(「QMS」)監督服務和產品的質量，以確保從項目規劃和管理到執行及監控，為客戶提供專業和可靠的服務。

沛然環保一直處於可持續發展的最前線，並且為向最新的淨零目標邁進。為了實現我們與客戶一起推進淨零排放的共同目標，沛然環保致力於提供涵蓋環保和可持續發展服務的一站式解決方案服務：

# ACCELERATING DECARBONIZATION

## 促進低碳

### Green and Healthy Buildings

The green building certification consulting services at AEC provide environmental design and one-stop certification application services in order to attain greater sustainability for the new and existing structures. Through leveraging our expertise in the Building Environmental Assessment Method (“BEAM Plus”), Leadership in Energy and Environmental Design (“LEED”), Building Research Establishment Environmental Assessment Method (“BREEAM”), China Green Building Label (“China GBL”), EDGE Green Building Certification (“Excellence in Design for Greater Efficiencies”), WELL Building Standard (“WELL”) and Fitwel, our clients can fulfill the local and international green building standards.

### Environmental Consultancy & Sustainable Design

AEC’s sustainability and environmental consulting services offer architects with sustainable designs solutions for urban renewal, integrated planning and sustainable development since we emphasize on the health and well-being of those who live in and around the built environment. The sustainable solutions consist of environmental impact assessment, air quality impact assessment, air ventilation impact assessment, noise impact assessment, environmental monitoring and audit, carbon and energy audit and building environment research.

### Green Finance, Sustainability Strategies & ESG Advisory

The ESG reporting and consulting services in AEC have grown consistently to assist businesses in instructing their sustainability approaches. During the Year, we continued to improve our one-step online ESG management platform – Sustainature. It simplifies ESG data processing, enable data analytics and management with the same platform and generate HKEX compliant ESG reports, helping enterprises track their progress towards carbon neutrality goals and enhancing ESG performance. In line with sustainability reporting, we also offer auxiliary value-added services such as stakeholder engagement, materiality assessment, target setting, sustainability assessments such as Global Real Estate Sustainability Benchmark (“GRESB”) consulting and sustainable strategy development. Our mission is to direct our clients toward a sustainable future on a solution basis that outperforms regulatory standards. In light of more stringent disclosure requirements of sustainability reporting guidelines and frameworks, we aspire to advise clients on up-to-date industrial trends and assist them in growing their capacity for long-term sustainable development.

### 綠色健康建築

沛然環保的綠色建築認證顧問服務提供環境設計和一站式認證申請服務，以幫助新建築和現有建築實現更高的可持續性表現。我們運用綠建環評(「BEAM Plus」)、領先能源與環境設計(「LEED」)、英國建築研究院環境評估方法(「BREEAM」)、中國綠色建築評價標識(「China GBL」)、EDGE綠色建築認證(「卓越設計，提高效率」)、健康建築標準(「WELL」)及Fitwel方面的專業知識，幫助不同客戶達到本地及全球綠色建築標準。

### 環境諮詢與可持續設計

沛然環保的可持續發展和環境諮詢服務為建築師提供城市更新、綜合規劃和可持續發展的可持續設計解決方案，因為我們重視居住在建築環境中和周圍居民的健康和福祉。可持續解決方案包括環境影響評估、空氣質量影響評估、通風影響評估、噪音影響評估、環境監測和審計、碳與能源審計和建築環境研究。

### 綠色金融、可持續發展策略和ESG諮詢

沛然環保持續發展ESG報告和諮詢服務，以為企業的可持續發展方法提供建議和協助。本年度內，我們持續改善我們的一站式線上ESG管理平台 – Sustainature，以平台簡化ESG數據處理程序、在同一平台上實現數據分析和管理的、並生成符合香港交易所要求的ESG報告、幫助企業實現碳中和目標進度追蹤，並提高ESG績效。除了可持續發展報告，我們還提供輔助增值服務，例如持分者參與、重要性評估、目標設定、全球房地產可持續發展標準諮詢，以及可持續策略制定等可持續發展評估。我們的使命是在超越監管標準解決方案的基礎上，引領我們的客戶邁向可持續的未來。鑑於可持續發展報告指南和框架的披露要求越趨嚴格，我們有志於就最新的行業趨勢為客戶提供建議，並協助他們提高長期可持續發展能力。

## ACCELERATING DECARBONIZATION

### 促進低碳

We are honored to be recognized with several significant accolades throughout the Year, which assure our expertise and devotion to producing high-quality ESG reports. AEC has been awarded the Best in ESG Reporting Awards (GEM), Best in ESG Awards (GEM), and ESG Report of the Year (GEM) by the BDO Limited, which acknowledged the outstanding performance of AEC's 2021/22 ESG report. These accomplishments epitomize our leadership position in both Hong Kong's and China's green building consulting industry.

Further to our ESG reporting and consulting services, responsible investment is also a key area of AEC's business focus. We provide consultancy services in aiding our clients to commit to investments that have taken into consideration of ESG factors on the long-term investment return and its sustainability. Moreover, AEC has committed to the responsible investment of a number of projects that play key roles in sustainable development. AEC has invested HKD1.56 million in climate-risk related projects.

#### Acoustics, Audiovisual, Lighting & Theater Planning

The acoustic, audio-visual and lighting design consulting services offered by AEC help the engineers and architects to evaluate the environmental performance of various building materials and products to make the acoustic and lighting environment comfortable. The services include architectural acoustics, building acoustics, sound reinforcement and public address systems, architectural and façade lighting systems, mechanical service and airborne noise control, as well as theater design and stage equipment systems.

#### e-Learning Platform, Air Quality, Smart & Green IoT

In addition to our core services, AEC also provides a number of enhancement services for our clients to further their sustainable development aspirations. To enhance properties' overall indoor environmental quality, AEC has been providing real-time air quality monitoring solutions to our clients, to aid them to monitor and improve indoor air quality of their properties. Moreover, to improve our clients' knowledge and understanding on the importance of sustainable development, AEC has also been providing our clients with e-Learning platform on training for ESG topics.

我們很榮幸能夠在本年度獲得多項重大榮譽，這肯定了我們在撰寫高質量ESG報告上的專業性和貢獻。沛然環保榮獲香港立信德豪會計師事務所有限公司所頒授的最佳ESG報告大獎(GEM)，和最佳ESG大獎(GEM)和ESG年度大獎(GEM)，以表彰沛然環保於二零二一／二二年度ESG報告中的出色表現。這些成就亦體現了我們在香港和中國綠色建築諮詢行業中的領導地位。

除了我們的ESG報告和諮詢服務以外，責任投資也是沛然環保業務中的一個重點範疇。我們在提供諮詢服務時，會就ESG因素所帶來的長期投資回報及其可持續性的投資為客戶作出考量。此外，沛然環保承諾對一系列在可持續發展發展中發揮關鍵作用的項目進行負責任的投資。沛然環保已投資156萬港元於氣候風險相關項目。

#### 聲學、視聽、照明及舞台設計

沛然環保的聲學、視聽、照明及舞台設計諮詢服務幫助工程師和建築師評估各種建築材料和產品的環境性能，使聲學和照明環境舒適。這些服務包括建築聲學、樓宇建築聲學、擴聲和公共廣播系統、建築和外牆照明系統、機械服務和空氣噪聲控制，以及舞台設計和舞台設備系統。

#### 網上學習平台、空氣質量、智能和綠色物聯網

除了我們的核心服務外，沛然環保還為我們的客戶提供多項提升服務，以進一步實現他們的可持續發展願景。為了提高物業的整體室內環境質素，沛然環保一直在向我們的客戶提供實時空氣質量監測解決方案，以幫助他們監測和改善其物業的室內空氣質量。此外，為了提高客戶對可持續發展重要性的認識和理解，沛然環保還一直為客戶提供ESG主題培訓的在線學習平台。



# ACCELERATING DECARBONIZATION

## 促進低碳



### Case Study 個案分析

## 01

### 0 • PARK1

0 • PARK1 is the first Organic Resources Recovery Centre (ORRC) in Hong Kong. It located in Siu Ho Wan, North Lantau, to the northwest of the existing Siu Ho Wan Water Treatment Works and adjacent to the Siu Ho Wan Vehicle Pound Vehicle Examination Centre and Weigh Station.

The 0 • PARK1 is a biological treatment facility, occupies a total site area of about 22,073 m<sup>2</sup>, with a capacity of about 200 tonnes per day. It adopts anaerobic digestion technology to convert food waste into biogas (a source of renewable energy similar to natural gas) for electricity generation whilst the residues from the process can be produced as compost for landscaping and agriculture use.

In this project, AEC was appointed as project BEAM Plus consultant to provide guidance and professional advice on sustainable building design, energy efficiency, water conservation, waste reduction, and indoor environmental quality. Besides, AEC worked closely with the project team to identify opportunities for improving the building's sustainability performance and ensuring that the building met the criteria for BEAM Plus certification. Finally, the development was certified with Final Platinum rating under BEAM Plus NB V1.2 in 2022.

### 0 • PARK1

0 • PARK1是香港首個有機資源回收中心(ORRC)，位於北大嶼山小蠔灣濾水廠的西北側，毗鄰小蠔灣車輛扣留所驗車中心及秤車站。

0 • PARK1是一個佔地約22,073平方米的生物處理設施，每天可處理200公噸廚餘，透過採用厭氧分解技術將廚餘轉化為生物氣(一種與天然氣相近的可再生能源資源)以作發電，過程中產生的殘餘物可轉成為副產品堆肥，用於園林綠化和農業生產用途。

在這個項目中，沛然環保擔任項目綠建環評顧問，提供有關可持續建築設計、能源效率、節水、減廢和室內環境質量的諮詢指導和專業建議。此外，沛然環保與項目團隊密切地合作，尋找提昇項目可持續性績效的機會，並確保建築符合綠建環評認證所需要的標準。最後，該項目於二零二二年獲得「綠建環評新建建築1.2版」的最終白金級認證。



(Photo credit: BEAM Plus Online Exhibition)  
圖片來源：綠建環評網上展覽



(Photo credit: Main Contractor)  
圖片來源：承建商

The project buildings achieved a Platinum grade under BEAM Plus NB V1.2.

項目建築在「綠建環評新建建築1.2版」評估中獲得最終白金級認證。



# ACCELERATING DECARBONIZATION

## 促進低碳

### Case Study 個案分析 01

For the outstanding green and performance features of the core buildings are summarized in below table:

以下表格總結了核心建築物的傑出的綠色和性能特點：

| Aspects<br>方面           | Highlighted Green and Performance features (O • PARK1)<br>傑出的綠色和性能特點(O • PARK1)   |
|-------------------------|---|
| Site Aspects<br>用地與室外環境 | <ul style="list-style-type: none"><li>• One-third of the site area covered by greenery.<br/>綠化設施佔總面積三分之一。</li><li>• Exterior lighting minimized to prevent light pollution in rural locations.<br/>減少戶外燈光裝置，以防止郊區受到光污染。</li></ul>   |
| Materials Aspects<br>用材 | <ul style="list-style-type: none"><li>• Over 80% of building materials manufactured regionally to reduce transport carbon footprint.<br/>超過80%的建築材料(重量計)來自工地800公里範圍內由當地製造的建築，以減少運輸的碳足跡。</li><li>• Over 30% of construction waste recycled.<br/>超過30%的建築廢物被回收再用。</li><li>• Absorption chillers used with water as CFC-free refrigerant, with less ozone depletion and global warming impact.<br/>使用以水作為無氟氯製冷劑的吸收式製冷機。</li></ul>                                      |
| Energy Use<br>能源使用      | <ul style="list-style-type: none"><li>• Full electricity consumption to be saved by electricity and heat generated on site by converted from food waste.<br/>使用有機資源回收中心所產生的電力及熱量，以減少電力消耗。</li><li>• Building energy fully utilizing renewable energy generated from organic waste recycling.<br/>回收中心充分利用有機廢物回收產生的可再生能源作建築能源。</li><li>• High efficiency absorption chillers utilizing waste heat deployed for air conditioning.<br/>利用高效的吸收式製冷機來減少空調中的廢熱。</li></ul> |
| Water Use<br>用水         | <ul style="list-style-type: none"><li>• Over 50% of annual water saved by efficient water device.<br/>使用高效淡水系統節省超過50%的每年用水量。</li><li>• Over 50% of flushing water reduced by efficient flushing devices.<br/>使用高效沖廁系統減少超過50%的沖廁用水量。</li><li>• Water reused on site reducing fresh water consumption by 40%.<br/>有機資源回收中心將污水回收再用，減少了40%的淡水消耗。</li></ul>  |

## ACCELERATING DECARBONIZATION

### 促進低碳

| Aspects<br>方面                             | Highlighted Green and Performance features (O • PARK1)<br>傑出的綠色和性能特點(O • PARK1)  |
|---|--|
| Indoor Environmental<br>Quality<br>室內環境質素 | <ul style="list-style-type: none"><li>Indoor Air Quality Certification 'Excellent Class Level' achieved.<br/>獲取室內空氣質素檢定證書(卓越級)。</li><li>Over 90% of occupied spaces enhanced by natural lighting.<br/>超過90%的使用空間引入自然光。</li><li>Covered walkway (O • LINK) &amp; roof farm garden (O • FARM) enhancing the quality and functionality of the building.<br/>加設有蓋行人通道(O • LINK)和屋頂農場花園(O • FARM)以提高了回收中心的建築質量和功能性。</li><li>Enhanced design to facilitate access for persons with disability.<br/>改良設計，以方便殘障人士進出。</li></ul> |
| Innovations and Additions<br>創新           | <ul style="list-style-type: none"><li>Energy generated from waste not only sustaining internal consumption but also adequate to be exported to the public grid.<br/>轉廢為能不僅能維持有機資源回收中心的內部能源使用，還能夠將剩餘電力輸出至公共電網。</li><li>Free education tour offered to public to learn about the importance of reducing and recycling food waste and the transformation of turning food waste into energy and resources.<br/>向公眾提供免費及具教育意義的個人或團體的設施參觀活動，讓大眾了解減少和回收廚餘的重要性，以及將廚餘轉化為能源和資源的過程。</li></ul>                                     |

# ACCELERATING DECARBONIZATION

## 促進低碳

### Case Study 02 個案分析



#### Hongkong Land Head office

The Hongkong Land Head office (4/F–9/F) is located in One Exchange Square. Previously, AEC was appointed to achieve BEAM Plus Existing Building (Final Platinum) for the whole building in 2019; and BEAM Plus Building Interior V1.0 (Platinum) in 2020 for interior works of the Hongkong Land Head Office.

To promote well and healthy working environment to the employees in the Hongkong Land Head Office, AEC was appointed as the project WELL consultant. We provided professional advice and guidance on health and well-being features to the facility management team and identified opportunities for enhancing the health and well-being performance. As a result, the Project was certified with Platinum rating under the WELL certification in 2022.

The outstanding health and well-being features of the Project are summarized in table below:

#### 香港置地總部辦公室

香港置地總部辦公室(4樓至9樓)位於交易廣場一期。此前沛然環保曾獲委任於二零一九年為整座建築取得綠建環評既有建築(最終鉑金級);以及二零二零年香港置地總部辦公室內的綠建環評室內建築1.0版(鉑金級)。

為向香港置地總部辦公室的員工營造良好、健康的工作環境，沛然環保被任命為項目WELL顧問。我們向設施管理團隊提供有關健康和福祉功能的專業建議和指導，並確定了提高健康和福祉績效的機會。因此，該項目於二零二二年獲得WELL認證鉑金級認證。

該項目在健康和福祉方面的傑出特點總結如下表：

| Concepts<br>概念                               | Highlighted WELL performance features (Hongkong Land Head Office)<br>突出的WELL性能特點(香港置地總部)   |
|--|--|
| Air, Thermal Comfort and Light<br>空氣、熱舒適度和光線 | <ul style="list-style-type: none"> <li>Real-time monitoring and display Indoor Air Quality (e.g., PM2.5, PM10, VOCs, etc.) on mobile App<br/>實時監測並顯示室內空氣質量(如PM2.5、PM10、VOCs等)</li> <li>Allows personalized thermal and lighting environment to immediate workplace<br/>為工作場所提供個性化的熱和照明環境</li> <li>Provides circadian lighting design in office space<br/>提供辦公空間的晝夜節律照明設計</li> </ul>  |
| Water<br>水                                   | <ul style="list-style-type: none"> <li>Implements Legionella Management Plan<br/>實施軍團菌管理計劃</li> <li>Conducts drinking water quality monitoring quarterly<br/>每季度進行一次飲用水水質監測</li> </ul>   |
| Nourishment, Mind and Community<br>營養、精神和社區  | <ul style="list-style-type: none"> <li>Develop health-oriented mission for healthy lifestyles and workplace<br/>為健康的生活方式和場所制定以健康為導向的使命</li> <li>Promote healthy diet and water consumption habit to staff<br/>向員工推廣健康飲食和飲水習慣</li> <li>Provide healthy foods (e.g., fruits and vegetables) and healthy beverages (i.e. low-sugar content, no artificial ingredients) to staff<br/>為員工提供健康食品(例如水果和蔬菜)和健康飲料(即低糖含量、無人工成分)</li> <li>Provide quality views from workstations (e.g., natural blue space/views to indoor plants)<br/>提供工作站的優質景觀(例如自然的藍色空間/室內植物的景觀)</li> <li>Provide restorative indoor spaces with biophilic features in social hub for relaxation<br/>在社交中心提供具有親自然特色的恢復性室內空間，以供放鬆</li> <li>Conduct occupancy surveys to gather feedbacks from staff<br/>進行住戶調查以收集員工的反饋</li> <li>Offer mental health training and education to staff<br/>為員工提供心理健康培訓和教育</li> </ul> |



# ACCELERATING DECARBONIZATION

## 促進低碳

| Concepts<br>概念 | Highlighted WELL performance features (Hongkong Land Head Office)<br>突出的WELL性能特點(香港置地總部)  |
|----------------|---|
| Movement<br>運動 | <ul style="list-style-type: none"> <li>Provide ergonomic furniture to staff (e.g., adjustable monitors, adjustable workstations, etc.)<br/>為員工提供符合人體工程學的家具(例如可調節顯示器、可調節工作站等)</li> <li>Encourages an active lifestyle among staff by offering regular physical activities and subsidizing health programme<br/>通過提供定期的體育活動和資助健康計劃，鼓勵員工積極的生活方式</li> </ul>   |
| Sound<br>聲環境   | <ul style="list-style-type: none"> <li>Provide designated acoustic zoning (e.g., loud zone, quiet zone, etc.) to cater different needs<br/>提供指定的聲學分區(例如嘈雜區域、安靜區域等)以滿足不同需求</li> </ul>  |
| Material<br>材料 | <ul style="list-style-type: none"> <li>Adopt low-hazard cleaning products, color Coding System for proper storage and usage of cleaning products<br/>採用低危害清潔產品、顏色編碼系統以正確儲存和使用清潔產品</li> <li>Develop protocols for disinfection, including identification and maintenance of high-touch surfaces<br/>制定消毒方案，包括頻繁接觸表面的識別和維護</li> <li>Provide waste collection facilities for electronics, rechargeable batteries, and fluorescent lighting, etc.<br/>提供電子產品、充電電池、熒光燈等廢物收集設施</li> </ul> |

The Project achieved a WELL Platinum rating under WELL v.2 Pilot Certification.

該項目在WELL v.2試點認證下獲得了WELL鉑金評級。





# ACCELERATING DECARBONIZATION

## 促進低碳

### Case Study 03 個案分析



#### Bank of China (Hong Kong)'s Portfolio in Hong Kong

- Bank of China Tower
- Bank of China Building
- Bank of China Centre
- Bank of China Credit Card Centre
- Bank of China Wan Chai Commercial Centre

Bank of China Tower (BOCT), Bank of China Building (BOCB), Bank of China Centre (BOCC), Bank of China Credit Card Centre (BCCC) and Bank of China Wan Chai Commercial Centre (WCKP) are the core buildings located in Central, Kowloon, Sheung Wan and Wan Chai. Those buildings sum up with around 170,000 m<sup>2</sup> of Gross Floor Area (GFA) and they were all certified with Final Platinum rating BEAM Plus EB V2.0 Comprehensive Scheme during 2022–2023. AEC was appointed as project BEAM consultant to provide a full body check of these buildings and make recommendations to facility management company for improving building performance and identifying outstanding features.

#### 中國銀行(香港)在香港的投資組合

- 中銀大廈
- 中國銀行大廈
- 中銀中心
- 中銀信用卡中心
- 中銀灣仔商業中心

中銀大廈(BOCT)、中國銀行大廈(BOCB)、中銀中心(BOCC)、中銀信用卡中心(BCCC)和中銀灣仔商業中心(WCKP)是位於中環、九龍、上環和灣仔的核心建築。這些建築物的總建築面積約為170,000平方米，並在二零二二年至二零二三年期間全部獲得最終鉑評級BEAM Plus EB V2.0綜合評估計劃認證。沛然環保被任命為項目BEAM顧問，對這些建築進行全面檢查，並向設施管理公司提出建議，以提高建築性能並確定突出特點。



All project buildings achieved a Platinum grade under BEAM Plus Existing Building V2.0 Comprehensive Scheme.

所有項目建築均獲得綠建環評既有建築V2.0綜合評估計劃鉑金級評級。



# ACCELERATING DECARBONIZATION

## 促進低碳

In this case, AEC successfully took one of the most representative Chinese banks on a journey of green existing buildings, not only contributing to BOC's carbon neutrality roadmap but also setting a good example for others. AEC collaborated with the building owner and property management team on the improvement of building efficiency. Through a series of energy-saving measures, the energy efficiency of buildings over 30 years old was effectively improved. The concept of green operation was also successfully instilled into the FM team, promoting sustainability and environmental consciousness throughout the organization.

在本次案例中，沛然環保成功帶領中國最具代表性的銀行之一踏上了綠色既有建築之旅，不僅為中國銀行的碳中和路徑做出了貢獻，也為其他銀行樹立了良好的榜樣。沛然環保與業主和物業管理團隊合作，提高建築效率。通過一系列節能措施，有效提高了30年以上建築的能源效率。綠色運營的理念也成功地灌輸到FM團隊中，在整個組織中提升了可持續發展和環保意識。

Other outstanding green and performance features of the core buildings are summarized in below table:

核心建築的其他突出的綠色和性能特徵總結如下表：

| Highlighted Green and Performance features<br>突出的綠色和性能特徵 |  |              |               |  |              |
|--|--|--------------|---------------|--|--------------|
| Aspects<br>方面  | BOCT<br>中科院  | BOCB<br>中國銀行 | BOCC<br>中國銀監會 | BCCC<br>英國商會   | WCKP<br>WCKP |
| <b>Management<br/>管理</b>                                 | <ul style="list-style-type: none"> <li>Operate International Organization for Standardization (ISO) such as 14001<sup>®</sup>, 45001<sup>#</sup> and 50001<sup>§</sup><br/>操作國際標準化組織(ISO)如14001<sup>®</sup>、45001<sup>#</sup>和50001<sup>§</sup></li> </ul>   |              |               |  |              |
|  | <ul style="list-style-type: none"> <li><sup>®</sup> Applicable to BOCT, BOCB, BOCC and WCKP</li> </ul>   |              |               | <ul style="list-style-type: none"> <li><sup>®</sup> 適用於 BOCT、BOCB、BOCC 及 WCKP</li> </ul> |              |
|  | <ul style="list-style-type: none"> <li><sup>#</sup> Applicable to BOCT and BOCC</li> </ul>   |              |               | <ul style="list-style-type: none"> <li><sup>#</sup> 適用於BOCT、BOCC</li> </ul>              |              |
|  | <ul style="list-style-type: none"> <li><sup>§</sup> Applicable to BOCT, BOCC and WCKP</li> </ul>   |              |               | <ul style="list-style-type: none"> <li><sup>§</sup> 適用於BOCT、BOCC及WCKP</li> </ul>         |              |
| <b>Site Aspects<br/>場地方面</b>                             | <ul style="list-style-type: none"> <li><sup>®</sup>Awarded Platinum Award in Charter on External Lighting by Environment Bureau<br/><sup>®</sup>榮獲環境局戶外燈光約章鉑金獎</li> </ul>  |              |               |  |              |
|  | <ul style="list-style-type: none"> <li><sup>®</sup> Except WCKP</li> </ul>   |              |               | <ul style="list-style-type: none"> <li><sup>®</sup> 除WCKP外</li> </ul>                    |              |
| <b>Water Use<br/>用水</b>                                  | <ul style="list-style-type: none"> <li><sup>®</sup>Awarded certificate under Quality Water Supply Scheme for Buildings – Fresh Water (Plus); and<br/><sup>®</sup>榮獲大廈優質供水認可計劃－食水(2.0版)證書；和</li> <li><sup>®</sup>Awarded certificate under Quality Water Supply Scheme for Buildings – Flushing Water<br/><sup>®</sup>榮獲大廈優質供水認可計劃－沖廁水證書</li> </ul> |              |               |  |              |
|  | <ul style="list-style-type: none"> <li><sup>®</sup> Except BCCC</li> </ul>   |              |               | <ul style="list-style-type: none"> <li><sup>®</sup> 除BCCC外</li> </ul>                    |              |
| <b>Indoor Environmental Quality<br/>室內環境質量</b>           | <ul style="list-style-type: none"> <li><sup>#</sup>Certified under EPD 'Indoor Air Quality Certification Scheme for Office and Public Place'<br/><sup>#</sup>獲得環保署辦公室及公眾場所室內空氣質素檢定計劃檢定</li> </ul>  |              |               |  |              |
|  | <ul style="list-style-type: none"> <li><sup>#</sup> Except BCCC</li> </ul>   |              |               | <ul style="list-style-type: none"> <li><sup>#</sup> 除BCCC外</li> </ul>                    |              |
| <b>Innovations and Additions<br/>創新和補充</b>               | <ul style="list-style-type: none"> <li>Awarded Wastewi\$e<sup>®</sup>, IAQwi\$e<sup>#</sup> and Energy wi\$e<sup>#</sup> Certificate<br/><sup>#</sup>榮獲Wastewi\$e<sup>®</sup>、IAQwi\$e<sup>#</sup>和Energy wi\$e<sup>#</sup>證書</li> </ul>   |              |               |  |              |
|  | <ul style="list-style-type: none"> <li><sup>®</sup> Except BCCC</li> </ul>   |              |               | <ul style="list-style-type: none"> <li><sup>®</sup> 除BCCC外</li> </ul>                    |              |
|  | <ul style="list-style-type: none"> <li><sup>#</sup> Applicable to BOCC</li> </ul>  |              |               | <ul style="list-style-type: none"> <li><sup>#</sup> 適用於BOCC</li> </ul>                   |              |

# ACCELERATING DECARBONIZATION

## 促進低碳

Case Study  
個案分析

04

3 GOOD HEALTH AND WELL-BEING



6 CLEAN WATER AND SANITATION



7 AFFORDABLE AND CLEAN ENERGY



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION



### BAKER CIRCLE ONE

BAKER CIRCLE, located in one of the most convenient areas in the Kowloon Peninsula, Hung Hom, is a rare urban revitalization project of a significant scale. Comprising seven parcels and nine towers, BAKER CIRCLE is an example of a mega development underway, envisioning to transform one of the most humble, authentic neighborhoods in Hong Kong. BAKER CIRCLE ONE, being the first phase of this massive rejuvenation project, consists of three parcels and towers.

BAKER CIRCLE is intended to be an "URBAN OASIS" integrated with plentiful green outdoor spaces and promoted health and well-being be introduced to this project. This development is poised to redefine Hung Hom's dated urban character whilst placing health and quality of life criteria at the forefront of its conception.



### BAKER CIRCLE ONE

BAKER CIRCLE位於紅磡，是九龍半島最便利的地區之一紅磡，是罕見的大規模城市復興項目。BAKER CIRCLE由七個地塊和九座塔樓組成，是正在進行的大型開發項目的一個例子，旨在改造香港最簡陋、最真實的社區之一。BAKER CIRCLE ONE是這一大規模復興項目的第一階段，由三個地塊和塔樓組成。

BAKER CIRCLE旨在成為一個與豐富的綠色戶外空間融為一體的「城市綠洲」，並促進健康和福祉。這一發展項目將重新定義紅磡過時的都市特色，同時將健康和品質標準置於其理念的最前沿。



# ACCELERATING DECARBONIZATION

## 促進低碳

In this case, AEC, being the green building consultant of the BAKER CIRCLE, provides professional consultancy services on various green & healthy building certifications, including:

- China Green Building Label (Hong Kong) 2019 version;
- LEED v4.0 Core & Shell; and
- WELL v2.0 Certification

Furthermore, we collaborated with the project team to attain various "first-time achievements.":

- Being the pioneer in Hong Kong to apply isolation floor system in residential developments to reduce impact noise across the flats;
- Support government department, i.e. EPD, to develop relevant Practice Note and arrange site visit with Housing Department and Housing Society to explore the application of isolation floor system in other housing types;
- Being the first project to obtain pre-certification under the Hong Kong Green Building Assessment (2019 version); and
- 1st residential development in Hong Kong to receive recognition from the Asia-Pacific Intelligent Green Building Alliance (APIGBA).

在此案例中，沛然環保作為BAKER CIRCLE的綠色建築顧問，為各類綠色健康建築認證提供專業的諮詢服務，包括：

- 中國香港綠色建築評價2019版；
- LEED v4.0核心與外殼；及
- WELL v2.0認證

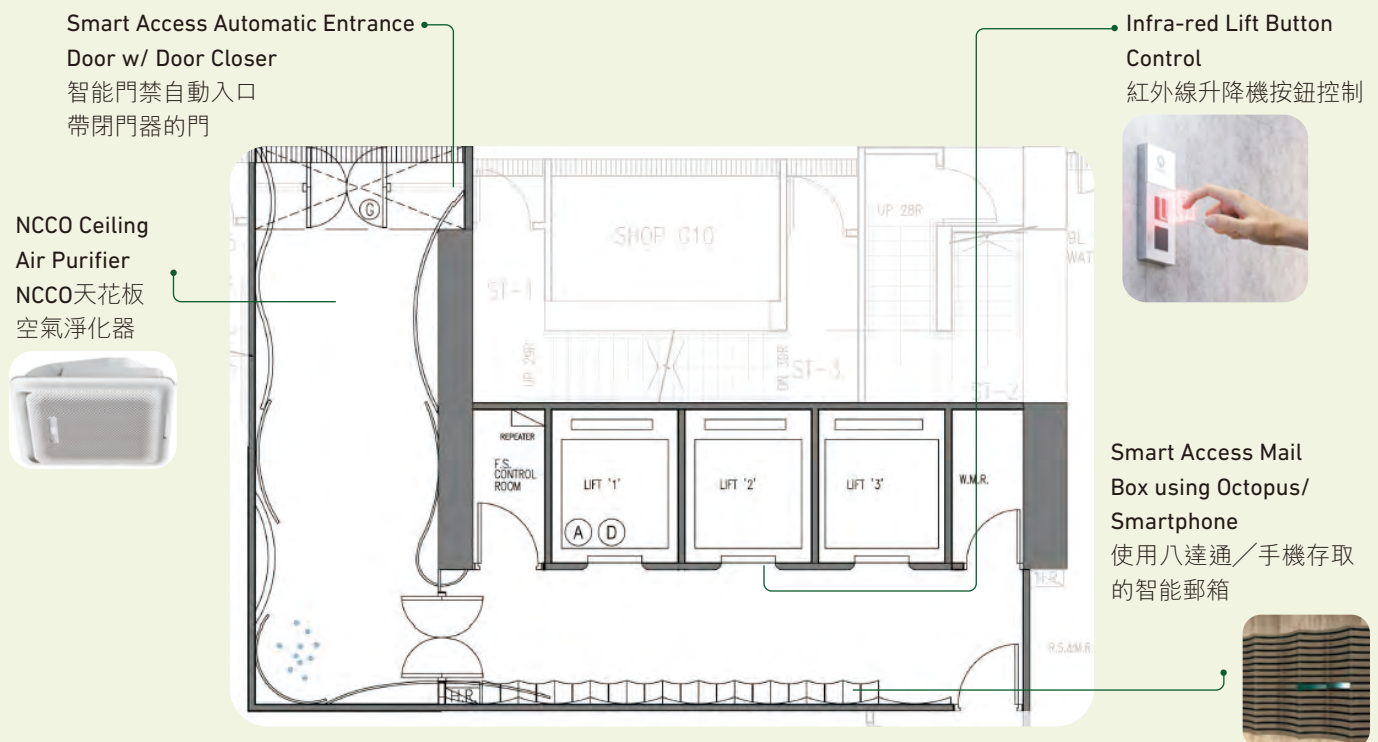
此外，我們與項目團隊合作，以實現各種「首次成就。」：

成為香港率先在住宅發展項目應用隔離地板系統，以減少整個單位的衝擊噪音；支持政府部門（即環保署）制定相關作業指引，並安排房屋署及房屋協會實地考察，探討隔離地板系統在其他房屋類型的應用；

成為首個獲得中國香港綠色建築評價2019版；預認證的項目；及也是香港第一個獲得亞太地區智慧綠建築聯盟（APIGBA）認可的住宅項目。

### Green Features

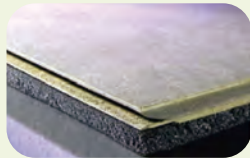
#### 環保特色



# ACCELERATING DECARBONIZATION

## 促進低碳

### Case Study 04 個案分析



Isolation Floor System  
to reduce Impact Noise  
隔離地板系統減少撞擊噪音



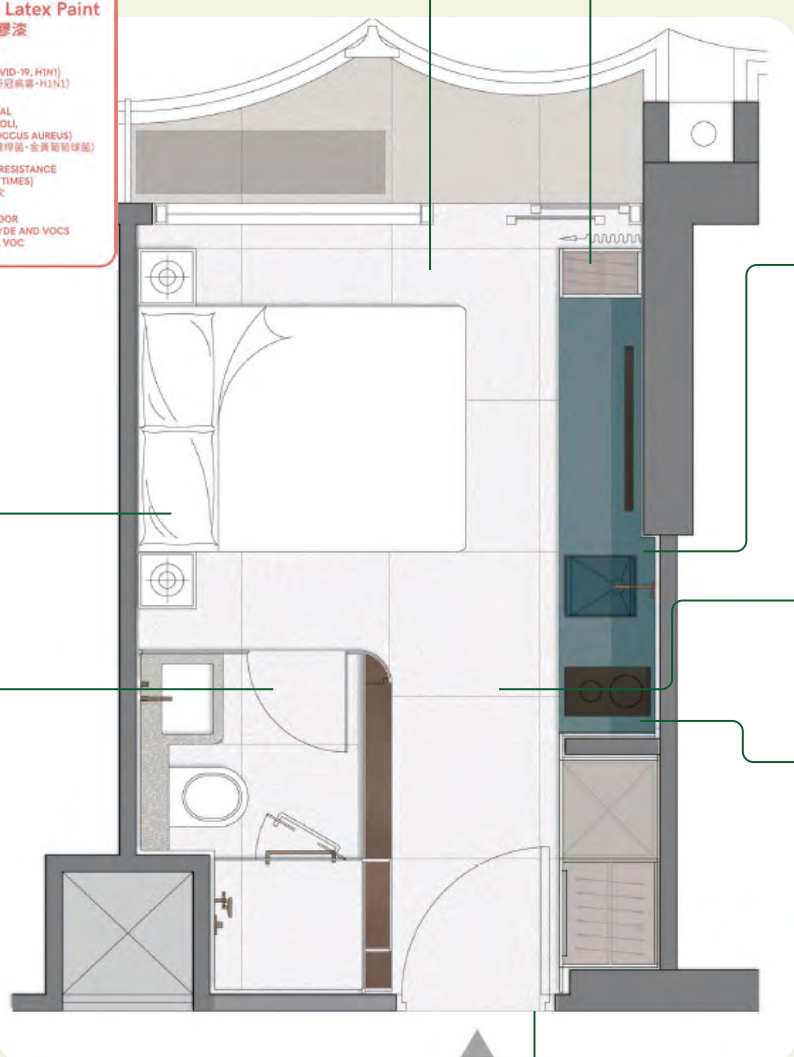
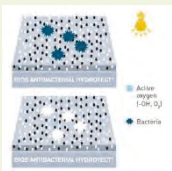
Wardrobe w/ Mini NCCO Purifier  
帶迷你NCCO的衣櫃淨化器

**03 All-In-One Photocatalyst Latex Paint**  
全效型光觸媒乳膠漆

- ANTIVIRAL**  
(INCLUDE COVID-19, H1N1)  
抗病毒 (包括新冠病毒-H1N1)
- ANTIBACTERIAL**  
(INCLUDE E.COLI, STAPHYLOCOCCUS AUREUS)  
抗菌 (包括大腸桿菌-金黃葡萄球菌)
- HIGH SCRUB RESISTANCE**  
(UP TO 12500 TIMES)  
耐洗擦12500次
- PURIFIES INDOOR FORMALDEHYDE AND VOCs**  
淨化室內甲醛、VOC

Photocatalyst Latex Paint  
光觸媒乳膠漆

Photocatalytic Anti-bacterial Tiles  
光觸媒抗細菌瓷磚



Reserve Space and Power Point for Water Purifier  
預留空間和電源予淨水器



NCCO Ceiling Mount Air Purifier  
NCCO吸頂式安裝空氣淨化器

UV Smartphone Sterilizer  
UVS智能手機消毒器



Smart Access Digital Lock  
智能電子門鎖





# ACCELERATING DECARBONIZATION

## 促進低碳

### UNSDGs

#### 聯合國可持續發展目標

|  |   |  |
|--|---|--|
|  <p>3 GOOD HEALTH AND WELL-BEING</p>                | <ul style="list-style-type: none"> <li>• IAQ sensor interlocked w/ purifier (3.9.1)</li> <li>• Smoking prohibition in communal areas (3.A.1)</li> <li>• Touchless entryway (3.D.1)</li> <li>• Full range of gym facilities (3.4.1)</li> <li>• Mental health training for FM staffs (3.4.2)</li> <li>• Fruits and vegetables available at clubhouse (3.4.1)</li> </ul>                         | <ul style="list-style-type: none"> <li>• 與淨化器聯鎖的IAQ傳感器(3.9.1)</li> <li>• 公共區域禁止吸煙(3.A.1)</li> <li>• 非接觸式入口(3.D.1)</li> <li>• 全套健身設施(3.4.1)</li> <li>• 精神健康培訓FM員工(3.4.2)</li> <li>• 會所提供水果和蔬菜(3.4.1)</li> </ul> |
|  <p>6 CLEAN WATER AND SANITATION</p>               | <ul style="list-style-type: none"> <li>• Annual quality test on potable water (6.1.1)</li> <li>• Highly efficient plumbing fixtures (6.4.1)</li> </ul>  | <ul style="list-style-type: none"> <li>• 飲用水年度質量檢測(6.1.1)</li> <li>• 高效管道裝置(6.4.1)</li> </ul>  |
|  <p>7 AFFORDABLE AND CLEAN ENERGY</p>             | <ul style="list-style-type: none"> <li>• High performance building envelope (7.3.1)</li> <li>• Energy efficient appliance and AC (7.3.1)</li> <li>• Smart control of home appliances through home automation system (7.3.1)</li> <li>• Renewable energy adaptation, e.g. Pavegen, solar powered outdoor lamp (7.2.1)</li> </ul>   | <ul style="list-style-type: none"> <li>• 高性能建築圍護結構(7.3.1)</li> <li>• 節能電器和空調(7.3.1)</li> <li>• 通過家庭自動化對家電進行智能控制系統(7.3.1)</li> <li>• 可再生能源改造，例如Pavegen，太陽能戶外燈(7.2.1)</li> </ul>                                 |
|  <p>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</p> | <ul style="list-style-type: none"> <li>• Increased resource-use efficiency and greater adoption of clean and environmentally sound technologies (9.4.1)</li> <li>• Promote and introduce high-tech and innovation products to general public (9.B.1)</li> </ul>   | <ul style="list-style-type: none"> <li>• 提高資源利用效率並更多地採用清潔和無害環境的技術(9.4.1)</li> <li>• 向公眾推廣和介紹高科技和創新產品，以公眾(9.B.1)</li> </ul>   |
|  <p>11 SUSTAINABLE CITIES AND COMMUNITIES</p>     | <ul style="list-style-type: none"> <li>• Holistic planning to provide the neighbor a community hub (11.3.2)</li> <li>• Preserving local cultural heritage (11.4.1)</li> <li>• Strategic location to promote the use of public transport, thus reducing urban air pollution (11.6.2)</li> <li>• Open space with massive greenery dedicated for general public (11.7.1 &amp; 11.7.2)</li> </ul> | <ul style="list-style-type: none"> <li>• 為鄰居提供社區中心的整體規劃(11.3.2)</li> <li>• 保護當地文化遺產(11.4.1)</li> <li>• 戰略位置促進公共交通的使用，從而減少城市空氣污染(11.6.2)</li> <li>• 大面積綠化開放空間專供公眾使用(11.7.1及11.7.2)</li> </ul>                   |
|  <p>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</p> | <ul style="list-style-type: none"> <li>• Adoption of BIM, precast/semi-precast material to reduce material footprint (12.2.1)</li> <li>• On-site collection of batteries, pesticides, lamps that may contain mercury, other mercury-containing equipment for better hazardous waste management (12.4.1)</li> <li>• Waste recycling bins at every floor (12.5.1)</li> </ul>                    | <ul style="list-style-type: none"> <li>• 採用BIM、預製/半預製材料以減少材料足跡(12.2.1)</li> <li>• 現場收集可能含有汞的電池、殺蟲劑、燈以及其他含汞設備，以更好地管理危險廢物(12.4.1)</li> <li>• 每層樓均設有廢物回收箱(12.5.1)</li> </ul>                                      |
|  <p>13 CLIMATE ACTION</p>                         | <ul style="list-style-type: none"> <li>• Educate general public by implementation and showcase of renewable energy and energy efficient equipment (13.3.1)</li> </ul>   | <ul style="list-style-type: none"> <li>• 通過實施和展示可再生能源和節能設備來教育公眾(13.3.1)</li> </ul>   |

# ACCELERATING DECARBONIZATION

## 促進低碳

### Case Study 個案分析

# 05



### Helping a client to comply with SFDR Article 8 Fund requirements

Given we have extensive knowledge on responsible investment, we were able to advise our real estate investor client to comply with EU Sustainable Finance Disclosure Regulation (SFDR) requirements for one of their funds. SFDR imposes comprehensive sustainability disclosure requirements covering a wide range of ESG metrics at both the entity and the product level. It was introduced by the European Commission as a core part of its 2018 Sustainable Finance Action Plan, which also include the Taxonomy Regulation and the Low Carbon Benchmarks Regulation and is a fundamental pillar of the EU Sustainable Finance agenda<sup>1</sup>.

An Article 8 Fund under SFDR is defined as “a Fund which promotes, among other characteristics, environmental or social characteristics, or a combination of those characteristics, provided that the companies in which the investments are made follow good governance practices.”<sup>2</sup> In order to comply to Article 8 Fund requirements, we helped our clients to prepare all mandatory pre-contractual disclosures and will in the future accompany them in preparing all periodic reporting requirements.

### 幫助客戶遵守SFDR第8條基金要求

鑑於我們在責任投資方面擁有廣泛的知識，我們能夠為我們的房地產投資者客戶的一個基金提供遵守歐盟可持續金融披露條例(SFDR)要求的建議。SFDR提出了全面的可持續性披露要求，涵蓋機構和產品層面的廣泛ESG指標。它由歐盟引入，作為其二零一八年可持續金融行動計劃的核心部分，該計劃還包括分類法規(Taxonomy Regulation)和低碳基準法規(Low Carbon Benchmarks Regulation)，是歐盟可持續金融議程的基本支柱<sup>1</sup>。

SFDR下的第8條基金被定義為「促進環境或社會特徵或這些特徵組合的基金，前提是投資的公司遵循良好的治理實踐。」<sup>2</sup>。為了遵守第8條基金的要求，我們幫助客戶準備了所有強制性合同前披露，並將在未來與他們一起準備所有定期報告要求。

<sup>1</sup> <https://www.eurosif.org/policies/sfdr/>

<sup>2</sup> [https://www2.deloitte.com/content/dam/Deloitte/ie/Documents/Audit/IE\\_SustainableFinanceDisclosureReg\\_Article8Funds.pdf](https://www2.deloitte.com/content/dam/Deloitte/ie/Documents/Audit/IE_SustainableFinanceDisclosureReg_Article8Funds.pdf)

# ACCELERATING DECARBONIZATION

## 促進低碳

### Case Study 06 個案分析



#### Acoustic Consultancy for HKU New Academic Building for Faculty of Business and Economics

The HKU new academic building for Faculty of Business and Economics is capital development complex that is going to be the landmark of HKU. The new academic building will adopt various environmental protection strategies and is targeting the Platinum Rating of Provisional Assessment under the BEAM Plus certification, WELL and LEED. A profound recognition for a green development especially an academic building.

As an environmental consulting firm with a professional lighting and acoustics team, AEC is responsible for the acoustic design and consultation of the project. The project will feature numerous lecture halls and an auditorium. The auditorium is designed with reference to the HKU Centennial Campus Auditorium. They share the same exceptionally low background noise level of NC15, ensuring the clarity of the performance or speaker. In addition to the auditorium, sound absorption on the different surfaces is designed in collaboration with the interior designer, WilkinsonEyre, with no compromises in both acoustic performance and the final finishes. Acoustic spray design will be heavily utilized for its smooth finish yet absorptive property to shape right acoustic properties for the different purposes of the rooms. The acoustic spray product selected is also credited with "Cradle to Cradle" bronze certification that enable a healthy, equitable and sustainable future. All in all, the new academic building for HKU Faculty of Business and Economic will be a top-class academic venue with an emphasis on its green design.

#### 為香港大學經管學院的新綜合教學樓發展項目視聽顧問

香港大學經管學院的新綜合教學樓發展項目將成為香港大學的地標。新的教學樓採用了各種環保策略，獲得了BEAM Plus、WELL和LEED的鉑金級(暫定)認證。這是綠色發展項目中，尤其是學術類項目中的巨大成就。

作為一家擁有專業燈光和聲學設計團隊的環境諮詢公司，沛然環保負責項目的聲學設計和諮詢。該項目將設有數個演講廳和一個禮堂。禮堂的設計參考了香港大學百周年校園禮堂，同時達到同等的NC15超低背景噪音，確保清晰呈現演講者或表演嘉賓的作品。除了禮堂之外，教學樓的吸音設計是與室內設計師WilkinsonEyre合作完成，在聲學性能和美學設計上都沒有妥協。聲學噴塗物料將利用大量非飾面積提供足夠吸音性能，為房間的不同用途塑造適宜的聲學特性。所選擇的聲學噴霧產品也獲得了「Cradle to Cradle」的Bronze認證，以實現一個健康、公平和可持續的未來。總而言之，香港大學經管學院的新教學樓將成為一個強調綠色設計的頂級學術場所。



# ACCELERATING DECARBONIZATION

## 促進低碳

### Driving Sustainable Operations

AEC attaches great importance to its own environmental performance and minimizes its impact on the environment. AEC has taken many green measures in the workplace to achieve good environmental management, from improving energy efficiency and reducing energy consumption to protect water resources, to optimizing resources and increasing employees' environmental awareness.

### 推動可持續營運

沛然環保非常重視我們自身的環境績效，並將其對環境的影響降至最低。沛然環保在工作場所採取了各種綠色措施以實現良好的環境管理，從提高能源效益到節約水資源，再到資源優化和培養員工的環保意識。

#### Workplace Sustainability Initiatives

##### 工作場所可持續發展倡議

##### Energy Efficiency

能源效益

Obtain LEED for Existing Interior & Arc Platform (Target Gold)

獲得LEED現有室內認證和Arc平台(目標金級)

Reduce 30% of absolute scope 1 and scope 2 GHG emission by 2030 from base year 2018

二零二零年範圍1及範圍2的絕對溫室氣體排放量較二零一八基準年減少30%

##### Water Conservation

節約用水

Provide water dispensers to prohibit the use of disposable plastic water bottles

提供飲水機，禁止使用即棄塑膠水瓶

Display water saving logos to raise staff awareness

張貼節水標籤，以提高員工意識

##### Resources Management

資源管理

Provide recycling bins to separate recyclable waste from source

提供回收箱從源頭分類可回收廢棄物

Control the use of raw materials such as packaging to minimize waste generation

控制包裝等原材料的使用，以盡量減少廢物的產生

Adopt green products, such as printing the Annual Report with soy ink

採用綠色產品，例如使用大豆油墨印刷年報

Practice the "paperless office" with paperless publications and newsletters and

provide e-statements and e-trade platform to customers

無紙化刊物和通訊以實踐「無紙化辦公室」，為客戶提供電子結單和電子貿易平台

Reuse containers and utensils

重用容器和餐具

##### Awareness Raising and Education

提高意識及教育

At least 6 trainings/activities per person

每人至少6次培訓/活動

Organize green-themed activities such as ESG, green building, and other sustainability related talks and seminars

舉辦以綠色為主題的活動，例如關於ESG、綠色建築和其他可持續發展相關主題的講座及研討會

Establish and implement Environmental Policy

訂立和執行環境政策

# ACCELERATING DECARBONIZATION

## 促進低碳

### Workplace Sustainability Initiatives

#### 工作場所可持續發展倡議

##### Office Waste Management

辦公室廢棄物管理

Set up baseline using 3 months data

使用三個月的數據設立廢棄物基準線

Measure general wastes once a week

每週測量一次普通廢棄物

##### Talent Attraction and Retention

吸引與保留人才

Reduce overall turnover rate to below 20%

將整體離職率降至20%以下

##### Health and Safety

健康及安全

Keep zero injury rate

保持零工傷率

Zero COVID-19 case

零2019冠狀病毒病感染病例

##### Communication

交流

Quarterly update/sharing (all staff meeting)

季度更新／分享(全員會議)

Social bonding sessions (every month)

社交聯繫會議(每月)



# ACCELERATING DECARBONIZATION

## 促進低碳

### Achievements in Green Building Projects

The following graph illustrates the overall savings in resources associated with BEAM Plus and LEED-certified projects from 2016/17 to 2022/23 in comparison to their respective baseline standards:

### 綠色建築項目的研究成果

下圖說明了於二零一六／一七年至二零二二／二三年期間，BEAM Plus和LEED認證項目與各自的基線標準相比的總節約量：

**tCO<sub>2</sub>e of GHG emissions  
estimated reduction (estimate)**  
噸預計二氧化碳當量減排量

**396,295.30**

**trees planted**  
樹木栽種

**17,230,230.62**

**MWh electricity reduction  
(estimate)**  
兆瓦時預計減電量

**147,436.79**

**households' average  
electricity consumption**  
個家庭的平均用電量

**31,981.95**

**million liter water  
reduction (estimate)**  
百萬升預計減水量

**1,761.33**

**Olympic-sized  
swimming pools**  
奧運會規模游泳池

**704.53**

**MWh Solar Energy  
generated (estimate)**  
兆瓦時預計太陽能產電量

**431.15**

**households' average  
electricity consumption**  
個家庭的平均用電量

**93.52**

**tonnes waste  
recycled (estimate)**  
噸預計廢棄物回收量

**29,557.44**

**Hong Kong people's yearly  
disposal rate of municipal solid waste**  
香港人每年的都市固體廢物棄置量

**19,318,590.95**

# ACCELERATING DECARBONIZATION

## 促進低碳

### Environmental Performance Review

### 環境表現概況

| Energy<br>能源                      | Unit<br>單位             | 2022/23 | 2021/22 |
|-----------------------------------|------------------------|---------|---------|
| Electricity Consumption<br>耗電量    | kWh<br>千瓦時             | 129,616 | 79,081  |
| Fuel Consumption<br>燃料耗量          | kWh<br>千瓦時             | 42,399  | 18,141  |
| Total Energy Consumption<br>總能源耗量 | kWh<br>千瓦時             | 172,015 | 97,222  |
| Energy Intensity<br>能源消耗密度        | kWh/Employee<br>千瓦時／員工 | 2,177   | 1,430   |

| GHG<br>溫室氣體   | Unit<br>單位                                | 2022/23 | 2021/22 |
|---|---|---------|---------|
| Scope 1 GHG Emission <sup>Note 1</sup><br>範圍1溫室氣體排放 <sup>註一</sup> | tCO <sub>2</sub> e<br>噸二氧化碳當量             | 11.64   | 5.00    |
| Scope 2 GHG Emission <sup>Note 2</sup><br>範圍2溫室氣體排放 <sup>註二</sup> | tCO <sub>2</sub> e<br>噸二氧化碳當量             | 88.14   | 56.15   |
| Scope 3 GHG Emission <sup>Note 3</sup><br>範圍3溫室氣體排放 <sup>註三</sup> | tCO <sub>2</sub> e<br>噸二氧化碳當量             | 1.19    | 2.4     |
| Total GHG Emission<br>總溫室氣體排放                                     | tCO <sub>2</sub> e<br>噸二氧化碳當量             | 100.97  | 63.55   |
| GHG Emission Intensity<br>溫室氣體排放密度                                | tCO <sub>2</sub> e/Employee<br>噸二氧化碳當量／員工 | 1.28    | 0.93    |

| Materials and Waste<br>材料和廢棄物          | Unit<br>單位  | 2022/23 | 2021/22 |
|--|-------------|---------|---------|
| Procured A3 and A4 Paper<br>已採購A3及A4紙張 | tonnes<br>噸 | 0.25    | 0.85    |
| Recycled General Waste<br>已回收廢棄物       | tonnes<br>噸 | 0.38    | 0.41    |

Note 1: AEC's Scope 1 Greenhouse gas ("GHG") emission refers to energy direct emissions, including the consumption of fuel for company-owned private cars. Since the Company gradually resumed from the pandemic, our fuel consumption had increased during the Year, resulting an increase on the energy consumption and GHG emissions.

註一：沛然環保的範圍1溫室氣體排放為公司私家車消耗燃料所引致的直接排放。由於公司從疫情中逐步恢復，本年度燃料消耗有所增加，導致能源消耗和溫室氣體排放增加。

Note 2: AEC's Scope 2 GHG emission refers to energy indirect emissions, including the consumption of purchased electricity. In addition to the daily office power consumption this year, the power consumption of the refrigeration system was also increased, as a result, the total electricity consumption of the Year was higher than last year. The relevant emission figures are calculated with reference to EPD's Guidelines to Account for and Report on Greenhouse Gas Emissions and Removals for Buildings (Commercial, Residential or Institutional Purposes) in Hong Kong (2010 Edition).

註二：沛然環保的範圍2溫室氣體排放為消耗所購買電力所引致的間接排放。本年度除去日常辦公用電，亦新增製冷系統耗電量，故本年度總用電量高於上年度。相關排放數字乃參考由環保署所編製的《香港建築物(商業、住宅或公共用途)的溫室氣體排放及減除的核算和報告指引》(2010年版)所計算。

Note 3: Scope 3 GHG emission is calculated based on the paper consumption during the Year.

註三：範圍3的溫室氣體排放的計算是根據本年度棄置於堆填區的紙張量。

# ACCELERATING DECARBONIZATION

## 促進低碳

### Sustainable Operation Initiatives

AEC strives to improve and streamline its operations throughout the years to improve the environmental performances, by implementing a number of sustainable operation initiatives.

#### Coffee Ground Recycling

To tackle the increasing level of food wastes generated from coffee consumptions in the office, AEC is participating in Eco-Greenergy's Zero Ground Coffee Campaign, for the recycling and upcycling of coffee ground wastes generated from its operation. We collect and transfer all of the coffee grounds consumed at the office to Eco-Greenergy for further upcycling of coffee ground wastes, to be turned into products such as soaps, compost and handwash. The proceeds from the participation in the initiative also serves to support the research work on the valorization of food wastes for sustainable production of chemicals and materials at the City University of Hong Kong.

#### Continuous Real-Time Indoor Environmental Monitoring

To improve the indoor environmental condition of the office, AEC continues to monitor the indoor air quality (IAQ) with the use of real-time IAQ system. The system installed sensors at different areas of the office, for real-time data collection of IAQ data. The data is used for strategy setting for improving IAQ condition of the office in the future.

#### Smart Meter for Air Conditioning System

To better control indoor environment of the office and improve energy management of the air-conditioning system of the office, AEC has upgraded the air conditioning control system, to newer computer-controlled smart control and metering system. This allows us to improve the energy management of the air-conditioning system. Moreover, the improved control system enables us to improve indoor comfort for our employees.

#### Real-time Energy Consumption Monitoring System

To reduce energy consumption to fulfill our commitment to SBTi in 2030, AEC has upgraded its energy monitoring system with new smart energy meters available for real-time energy data collection and data analysis. AEC aims to use the data collected from the new monitoring system to devise strategies and initiatives to further reduce energy consumption.

### 可持續營運倡議

沛然環保通過實施多項可持續營運措施，大大改進和精簡其運營，以提高環境績效。

#### 咖啡渣回收

為了解決辦公室咖啡消耗產生的廚餘問題，沛然環保正在參與Eco-Greenergy的零咖啡渣運動，以回收和升級其運營中產生的咖啡渣。我們收集辦公室消耗的所有咖啡渣並將其運送到Eco-Greenergy，以進一步升級回收咖啡渣，用於製造肥皂、堆肥和洗手液等產品。參與該計劃的收益也有助於支持香港城市大學關於廚餘作可持續生產化學品和材料的價值研究。

#### 連續實時室內環境監測

為了改善辦公室的室內環境，沛然環保繼續使用實時系統監測室內空氣質量。該系統利用安裝在辦公室不同區域的傳感器，實時收集室內空氣質量數據。數據用於未來改善辦公室室內空氣質量的策略制定。

#### 空調系統智能電錶

為了更好地控制辦公室的室內環境，提高辦公室空調系統的能源管理，沛然環保將空調控制系統升級為更新的計算機控制的智能控制和計量系統。這使我們能夠改善空調系統的能源管理。此外，改進的控制系統能夠提高員工的室內舒適度。

#### 實時耗能監測系統

為了降低能源消耗以兌現我們對二零三零年SBTi的承諾，沛然環保將其能源監控系統升級，新的智能電錶可用於實時能源數據收集和數據分析。目的是利用新監測系統收集的數據來製定進一步降低能源消耗的戰略和措施。

# OUR SUSTAINABLE TEAM

## 我們的可持續團隊

### Core values: Wellness and Collaboration

Our employees are our greatest asset and crucial to our success as a professional consultancy firm. We fully appreciate and protect all employee's fundamental rights and interests and offer them diverse career and development opportunities to showcase their talents and ideas on our platform.

### Boosting Diversity and Inclusion

AEC is devoted to constructing an inclusive and diverse work environment where our people can explore their possibilities. We continue our efforts to improve the diversity of our workplace through employment policies that promote equal opportunities and non-discrimination. We value and encourage curiosity, innovation, and ideas from everyone and do not consider differences in gender, age, ethnicity and religion, or disability in our recruitment and employment decisions.

Besides, AEC sustains a corporate culture which esteems human rights, protects female rights and safeguards the vulnerable. We respond promptly to issues related to human rights with the provision of targeted solutions to prevent violation risk. During the recruitment process, our administrative/human resources department is appointed to verify candidates' valid identity documentation, age, and working permit to prevent child labor, forced labor and other forms of illegal labor.

Beyond the workplace, we are determined to play an energized role in helping shape a diverse and inclusive community. For example, GRESB Insights is a platform where AEC delivers its ideas on a wide range of topics, including gender diversity. The article exemplifies the apparent correlation between a gender-diverse workforce and workplace effectiveness. It puts along with our suggestions on a multi-faceted strategy to shaping gender-balanced human resources.

### 核心價值觀：福祉和合作

作為專業顧問公司，員工是我們最大的資產，對我們的成功至關重要。我們充分尊重和保護所有員工的基本權益，並為他們提供多元化的職業發展機會，在讓他們可以在我們的平台上展現他們的才華和想法。

### 推動多元化及共融

沛然環保致力於建構一個共融和多元化的工作環境，讓我們的員工可以充分探索他們的潛能。我們持續努力通過促進平等機會和反歧視的就業政策，來改善工作場所的多元化。我們重視並鼓勵每個人的好奇心、創新和想法，並在我們的招聘和僱傭決策中不納入性別、年齡、種族和宗教或殘疾的差異為其中考量。

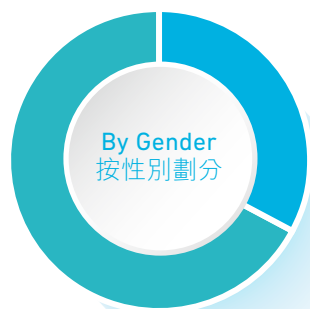
此外，沛然環保秉持尊重人權、保護女性權利和保護弱勢群體的企業文化。我們通過提供針對性的解決方案及時應對與人權相關的問題，以防止侵害人權的風險。在招聘過程中，我們的行政／人力資源部門任命核實候選人的有效身份證件、年齡和工作許可，以防止童工、強迫勞動和其他形式的非法勞工。

於職場以外，我們致力於為社區塑造多元化和及共融發揮積極作用。例如，「GRESB Insights」讓沛然環保在該平台上就包括性別多元化在內的廣泛主題分享見解。有關文章舉例說明了性別多元化工作團隊與職場工作效率之間密不可分的關係，並就如何以多管齊下的方針，建立性別平衡的人力資源提出建議。

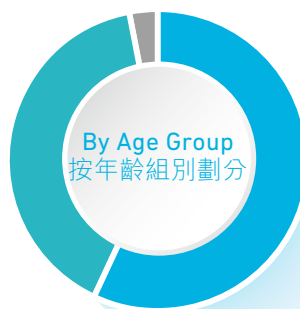
## OUR SUSTAINABLE TEAM

### 我們的可持續團隊

No. of Employees  
員工人數



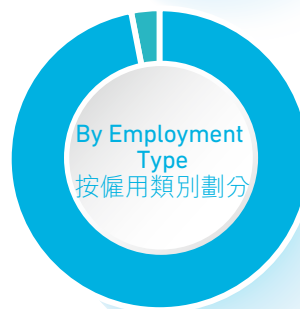
- 26 (33%)  
Male  
男
- 53 (67%)  
Female  
女



- 45 (57%)  
Under 30 Years Old  
30歲以下
- 32 (40%)  
30-50 Years Old  
30-50歲
- 2 (3%)  
Over 50 Years Old  
50歲以上



- 8 (10%)  
Senior Management <sup>Note 1</sup>  
高級管理層 註一
- 35 (44%)  
Professional Consultants  
專業顧問
- 36 (46%)  
Other Working Staff <sup>Note 2</sup>  
其他員工 註二



- 77 (97%)  
Full-time  
全職
- 2 (3%)  
Part-time  
兼職



- 72 (91%)  
Hong Kong  
香港
- 7 (9%)  
Malaysia  
馬來西亞

Note 1: The senior management includes our managing directors, directors, associate directors, and principal consultants.

Note 2: Other staff include our technicians and employees from the administrative/human resources department, marketing and communications team, and finance and accounting team.

註一：高級管理層包括我們的董事總經理、董事、副董事和首席顧問。

註二：其他員工包括我們的技術人員、行政／人力資源部門、市場推廣及傳訊部門，以及財務和會計部門的員工。



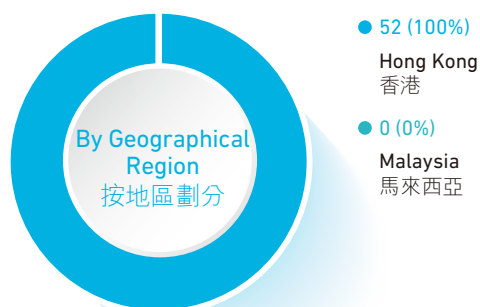
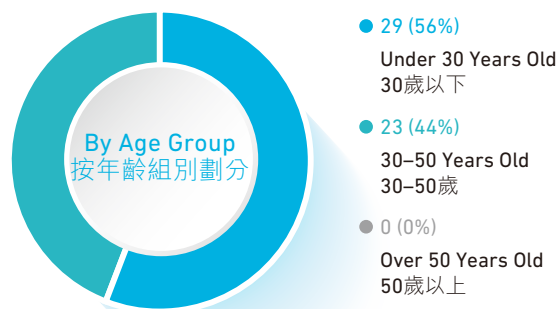
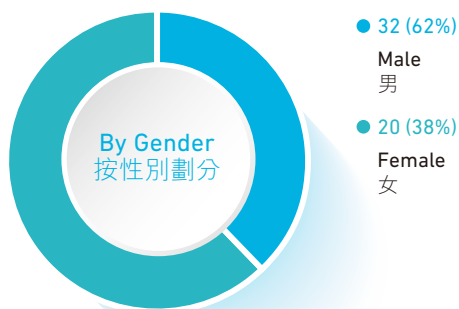
## OUR SUSTAINABLE TEAM

### 我們的可持續團隊

#### Board Members 董事會成員



#### Employee Turnover <sup>Note 3</sup> 離職員工 <sup>註三</sup>



Note 3: The overall turnover rate is 66% and the turnover rate for male and female are 77%, 60% respectively, and for employees under 30, between 30-50, and above 51 are 64%, 72%, 0% respectively. The turnover rate is 72% for Hong Kong office and 0% for Malaysia office.

註三：整體離職率為66%，男性和女性離職率分別為77%、60%，30歲以下、30-50歲、51歲以上員工分別為64%、72%、0%。香港辦公室的流動率為72%，馬來西亞辦公室為0%。

## OUR SUSTAINABLE TEAM

### 我們的可持續團隊

#### Fostering Workforce's Development

AEC acknowledges that training and education is a vital element of opportunity which opens entrances, creates new possibilities and helps employees pursue their passions. We persist in prioritizing and investing in creating proper training and development possibilities, including a series of sustainability and professional training programs to help our people boost their expertise and skills. In addition, we offer our employees study leaves and subsidies for professional examinations and qualifications. Our senior management or department heads execute annual evaluations to assess employee performance and comprehend their training needs following our business development plans.

Aside from investing in our employees, we are determined to support young people to equip them for their future, in line with our belief that youngsters are the future leaders in environmental protection. AEC persists in providing mentoring programs for student interns to enrich and grow their professional skills and practical experience. We have partnered with the Hong Kong Institute of Vocational Education ("IVE") since 2009 to execute the Student Industrial Attachment Program to provide practical opportunities for final-year students to assist them in making the first step into their future.

#### 促進員工發展

沛然環保深知培訓和教育是創造機會的關鍵，可以啟發思維、創造新可能，並有助員工富有熱情。我們一直優先考慮為員工提供適當的培訓和發展機會，包括一系列可持續發展和專業培訓項目，以幫助我們的員工提升自身的專業知識和技能。此外，我們還為員工提供學習假期和專業資格考試津貼。我們的高級管理人員或部門負責人亦會進行年度評估，以評估員工績效，並了解他們根據我們的業務發展計劃的培訓需求。

除了投資於我們的員工，我們還致力於支持年輕人，為他們的將來做準備，這與我們相信年輕人是未來環境保護的領導者的信念一致。沛然環保致力為學生實習生提供輔導計劃，以豐富和提升他們的專業技能和實踐經驗。自二零零九年，我們與香港專業教育學院(「IVE」)合作推行學生實習計劃，為應屆畢業生提供實習機會，協助他們踏出邁向未來的第一步。

| Training<br>培訓                         | Percentage of<br>employee trained<br>員工受訓比率 | Average<br>training hour<br>平均受訓小時數 |
|--|---|-------------------------------------|
| Total<br>總數                            | 28%   | 5.9                                 |
| <b>By Gender</b><br>按性別劃分              |   |                                     |
| Male<br>男性                             | 45%   | 14.1                                |
| Female<br>女性                           | 55%   | 1.9                                 |
| <b>By Employee Category</b><br>按僱員類別劃分 |   |                                     |
| Senior management<br>高級管理層             | 18%   | 14.4                                |
| Professional consultants<br>專業顧問       | 73%   | 9.9                                 |
| Other staff<br>其他員工                    | 9%  | 0.1                                 |

## OUR SUSTAINABLE TEAM

### 我們的可持續團隊

#### Safeguarding Workforce's Wellness

AEC acknowledges that our employees' health and wellbeing is paramount to the long-term sustainable development of the Group. AEC strictly follows the relevant health and safety regulations for its operation: Employees that are required to work and operate on construction site are required to undergo mandatory safety training courses under Cap. 583 Construction Workers Registration Ordinance prior to site-based works, to ensure our site-based staff are well-equipped and trained for high-risk works (i.e. on-site audits).

To ensure a healthy workplace, AEC implements relevant safety policies to regulate the management system and control measures regarding the employees' safety and health at work. With an aim to avoid accidents, employees are required to report any working methods and facilities in workplaces that may lead to accidents to their supervisors and human resources department so that appropriate follow-up actions can be taken.

To ensure the safety of employees are required to work and operate on the construction site, employees are required to log and report the activity to their supervisors and managers for record prior to commencement of work. Employees undertaking on-site work activities are required to maintain a clear communication channel with their supervisor throughout site work, and to report on any incidents if necessary. To further safeguard employees' safety for on-site work activities, AEC supplies the relevant personal protective equipment (PPE) (i.e. safety helmets, reflective vests, safety work boots, life vests, etc.) to employees to ensure complete protection against work-related accidents on site.

#### 保障員工健康

沛然環保深知員工的健康和福祉對本集團的長期可持續發展至關重要。沛然環保在營運上嚴格遵守相關的健康和安全規例：對於需在建築工地工作和進行操作的員工，沛然環保要求工地員工在現場工作前，接受第583章《建造業工人註冊條例》下的強制性安全訓練課程，以確保我們的工地人員是具能力、並接受過高風險工作(即現場審核)的培訓。

為確保健康的工作場所，沛然環保實施相關的安全政策，以規範員工有關工作安全和健康的管理制度和控制措施。僱員須向主管及人力資源部報告工作場所任何可能導致意外的工作方法及設施，以避免意外，並採取適當跟進程序。

為確保需在建築工地工作和進行操作的員工安全，員工必須在開始工作前進行記錄，並向其主管和經理進行報告。從事現場工作的員工亦必須在整個工作期間，與其主管保持清晰的溝通渠道，並在必要時報告任何事項。為進一步保障員工在現場工作的安全，沛然環保為員工提供相關的個人防護裝備(PPE)(即安全帽、反光背心、安全工作靴、救生衣等)，以確保在現場相關事故中得到全面保護。

#### Key Social Performance Indicators

##### 關鍵社會績效指標

##### Health and Safety

##### 健康和 safety

Total number of work-related fatalities <sup>Note 1</sup>

與工作相關的總死亡人數 <sup>註一</sup>

Work-related injury

與工作相關的受傷事件

Lost days due to work-related injury

工傷引致的損失工作天數

#### Unit

#### 單位

2022/23

2021/22

No. of people

人數

0

0

Cases

個例

0

0

Days

天數

0

0

Note 1: No work-related fatalities were recorded in the past 3 reporting years.

註一：在過去三個報告年度中，沒有與工作相關的死亡事件記錄。

## OUR SUSTAINABLE TEAM

### 我們的可持續團隊

AEC also has completed a number of physical health initiatives, aimed at further improving the employees' physical well-being and therefore creating a more productive and harmonious working environment for all:

#### Case Study 個案分析

#### WELL Health-Safety Rating 2022

To further the wellness and safety of the AEC office, a number of initiatives and improvements have been made to the operation of the office.

Automatic handwashing facilities have been provided to ensure decent hygiene levels amongst the workforce. Furthermore, touchless door handles have been installed to reduce the likelihood of contracting the illness.

Air and water quality monitoring were conducted to ensure the indoor environment is at a healthy level for all employees. Automatic real-time indoor air quality system has been installed to help to continue maintaining good indoor air quality for the office.

Health benefits and services are provided to ensure employees are assisted in maintaining health. On top of this, continuous communications are maintained with employees to inform them of health-related news and information.

AEC had been awarded WELL Health-Safety seal for its effort in maintaining a safe and healthy workspace.

為進一步改善員工的身體健康，沛然環保還實施了多項身體健康措施，從而為所有人創造一個更高效、更和諧的工作環境：

#### WELL健康—安全評價2022

為了促進沛然環保辦公室的健康和安全，我們對辦公室的運作進行了多項措施和改進。

我們已提供自動洗手設施，以確保員工保持良好的衛生水平。此外，我們安裝非接觸式門把手以減低感染疾病的可能性。

我們亦進行了空氣和水質監測，以確保所有員工處於健康水平的室內環境。此外，我們的辦公室已安裝自動實時室內空氣質量系統，以助繼續保持良好的室內空氣質量。

我們亦有提供健康福利和服務，以確保幫助員工保持健康。我們亦有與員工保持持續溝通，以告知他們與健康相關的新聞和信息。

沛然環保在維護安全和健康的工作空間方面所付出的努力，成功獲授WELL健康安全標識。



## OUR SUSTAINABLE TEAM

### 我們的可持續團隊

AEC continues to improve and develop more wellbeing initiatives for our employees. In compliance with local employment laws and standards, we ensure reasonable working hours and paid holidays. We also encourage work-life balance and a pro-family culture, and the Home Affairs Bureau and the Family Council have designated us as a “Family-Friendly” Employer. Additionally, we offer extra staff benefits such as performance bonuses, special paid leave, and a corporate fitness discount to help retain employees. Our measures implemented include:

沛然環保持續為我們的員工改進和制定更多的福利計劃。根據本地勞工法律和標準，我們確保合理的工作時間和有薪假期。我們鼓勵工作與生活的平衡和親家庭文化，並得到民政事務局和家庭議會的認可，已將我們確認為「家庭友善僱主」。此外，我們還提供額外的員工福利，例如花紅、特殊有薪假期和企業健身折扣，以挽留人才。我們實施的措施包括：



- Fruit Distribution 派發水果
- Refreshment 茶點
- Fitness center corporate discount 健身中心公司折扣
- Ergonomic workstation 符合人體工程學的工作間
- Regular office cleaning 定期辦公室清潔
- Relaxation area 休息區
- “Health and Wellbeing Study” 「健康與福祉研究」

### Relevant key measures on mental health

The physical and mental health of our employees is the top concern of the Group. Therefore, the Group has taken measures to ensure the physical and mental health of its employees, including the installation of soundproofing facilities and mental health counseling. These initiatives enable our employees to work in a healthy and sustainable work environment. We also arranged counseling services to promote mental health. To further our commitment towards improvement in our employees' mental health and wellbeing, AEC had become a signatory of the Mental Health Workplace Charter, and had provided mental health workshops like board game evening and horticulture de-stress during the Year. The Group will continue to monitor its employees' mental health status for the upcoming reporting year and provide more mental health related activities.

### 精神健康相關重點措施

本集團優先重視員工的身心健康。因此，本集團已採取措施確保員工的身心健康，包括安裝隔音設施及心理健康輔導，使我們的員工能夠在健康和可持續的工作環境中工作。我們亦安排輔導服務以促進心理健康。為了進一步致力於改善員工的心理健康和福祉，沛然環保已成為《精神健康工作場所憲章》的簽署方，並在本年度提供了心理健康研討會，例如棋盤遊戲之夜和園藝減壓。本集團將在往後的報告年度繼續監察其僱員的心理健康狀況，並提供更多與心理健康相關的活動。



## OUR SUSTAINABLE TEAM

### 我們的可持續團隊

#### Protecting our Workforce against COVID-19

Due to the outbreak of Coronavirus Disease 2019 (“COVID-19”), AEC has adopted numerous preventive measures to protect employees’ health and safety. For instance, we distributed our own surgical masks to the staff members. On top of that, we also provide vaccination leaves for our employees to be vaccinated against COVID-19. While enhancing the stability of our business operation and remaining proactive in promoting sustainability, we monitored closely the situation of COVID-19 and took proper company-wide measures to ensure the health and safety of our employees. We organized virtual meetings for clients and public webinars through video conferencing software instead of face-to-face activities which can minimize the spread of COVID-19.

A number of policies has been announced to safeguard our staff members. In response to the COVID-19, flexible working arrangements has been adopted. In tier 1 approach, our office hours remained unchanged and our staff were required to wear masks all the time. Also, to maintain social distancing, face to face meetings were avoided. For the tier 2 approach, since the pandemic situation was getting worse, flexible working hours were adopted. Our employees were separated into Team A and B and took roster to work duty in the office alternatively. Laptops and authorized passwords were provided to remote company server. Tier 3 approach is commenced to follow the advice and arrangement suggested by the government. All staff members worked from home operate from remote access unless the management approval is granted.

#### Mask Distribution

To ensure our employees can properly protect themselves against the ongoing pandemic, AEC has been providing its employees with surgical masks on a regular basis.

#### 保護員工對抗2019冠狀病毒病

由於2019冠狀病毒病的爆發，沛然環保採取了多項預防措施來保護員工的健康和安全。例如，沛然環保向員工派發了外科口罩。我們也向我們的員工提供疫苗接種假，讓他們接種2019年冠狀病毒病疫苗。在提高業務運營穩定性和積極促進可持續發展的同時，我們密切關注2019冠狀病毒病的情況，並在全公司範圍內採取適當措施確保員工的健康和安全。我們的客戶會議和公眾網絡研討會均改為使用網上會議以替代面對面的活動，以減少2019冠狀病毒病的傳播。

沛然環保同時制定一系列政策來保護我們的員工。為應對2019冠狀病毒病，我們採用了靈活的工作安排。在我們的第一階段措施中，我們的辦公時間保持不變，我們的員工必須佩戴口罩。此外，為了保持社交距離，我們避免了面對面的會議。而第二階段措施，因應疫情惡化，我們採用了靈活的工作時間。我們的員工被分成A組和B組，輪流到辦公室上班。提供筆記本電腦和授權密碼給遠程公司服務器。除非獲得管理層的批准，否則所有員工均被要求在家中並遠程工作以實施第三階段措施。

#### 口罩分配

為確保員工能夠適當地保護自己免受感染，沛然環保一直定期為其員工提供外科口罩。



## OUR SUSTAINABLE TEAM

### 我們的可持續團隊

#### RAT Self-test

AEC has been supplying employees with RAT self-test kits for COVID-19, to reduce the likelihood of the spread of the virus within our workplace and the wider society.



#### 快速抗原測試

沛然環保一直為員工提供針對2019冠狀病毒的快速抗原測試，以降低病毒在我們的工作場所和更廣泛的社會中傳播的可能性。

#### Vaccination Leave

AEC supports our staff members to take the COVID-19 vaccination, in order to build a vaccinated workplace and establish an immune barrier in the larger community.

AEC provides a one-day vaccination leave for each shot of COVID-19 vaccination received by staff members.



#### 疫苗接種假

沛然環保支持員工接種2019冠狀病毒疫苗，以建立一個已接種疫苗的工作場所並在更大的社區中建立免疫屏障。

每次接種2019冠狀病毒疫苗，沛然環保為員工提供一天的疫苗接種假期。

## OUR SUSTAINABLE TEAM

### 我們的可持續團隊

#### Maintaining Team Cohesion

AEC attaches great importance to the work experience of employees, advocates happy work and healthy life, and is committed to making employees work-life balance. At the same time, AEC creates a harmonious and friendly working atmosphere to promote mutual understanding and common progress among employees. In the face of improvement of the COVID-19 pandemics, we have organized an increasing number of team building activities for our staff during the Year.



Lai See Reuse and Recycle 利是封回收



Celebration of International Women's Day  
國際婦女節慶祝活動

#### 保持團隊凝聚力

沛然環保重視員工的工作體驗，倡導快樂工作和健康生活，致力於讓員工工作與生活的平衡。同時，沛然環保營造和諧友好的工作氛圍，促進員工相互了解，共同進步。隨著2019冠狀病毒病疫情的好轉，我們於本年度為員工組織了更多的團隊建設活動。



Christmas Wreath Workshop 聖誕花環工作坊



Yoga 瑜伽



## OUR SUSTAINABLE TEAM

### 我們的可持續團隊



Mental Health Workplace Charter: Board game evening 精神健康職場約章：棋盤遊戲之夜



AEC Malaysia Staff Birthday Celebration 沛然環保馬來西亞員工生日慶典



Horticulture De-stress 園藝減壓



AEC Malaysia Company Dinner 沛然環保馬來西亞公司晚宴



Gym Session 健身課

# PARTNERSHIPS TOWARDS NET-ZERO

## 邁向淨零的夥伴關係



### Core values: Collaboration

As one of the most professional sustainability and environmental consulting companies in Hong Kong, AEC is not only committed to promoting the sustainable development of corporates, but also strives to integrate sustainable development into the company's development strategy and throughout our value chain. Therefore, co-creating value with our employees, clients, suppliers, contractors and other stakeholders is one of our sustainability commitments.

### Emboldening our Clients

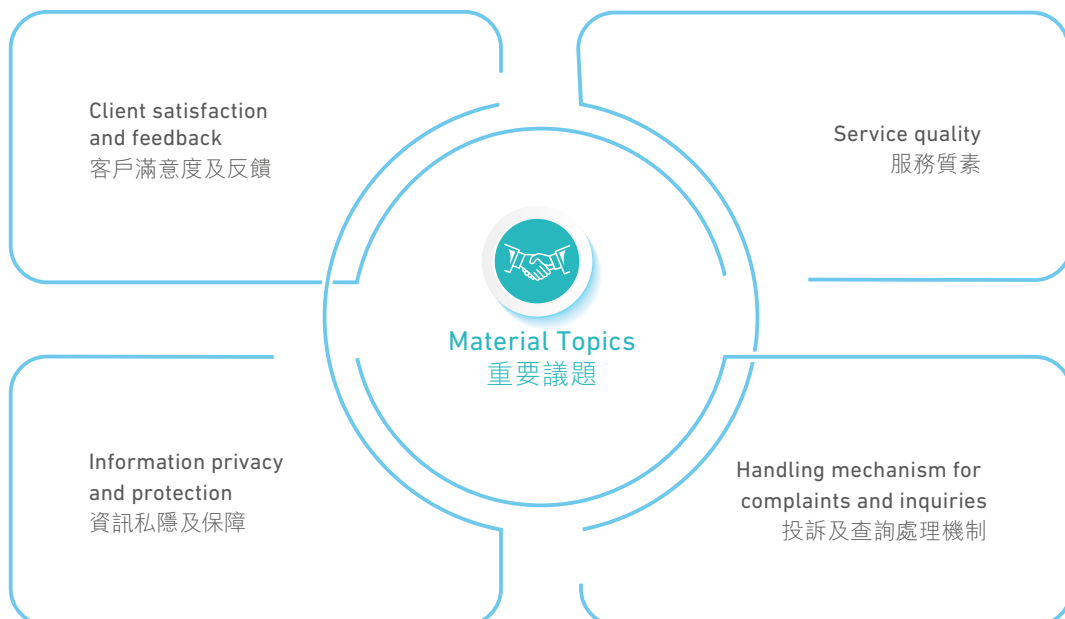
At AEC, we are committed to serving clients from different fields, including property developers and owners, architects and designers, professional firms and property management offices, as well as Government authorities and public bodies, contractors, and HKEX listed companies, providing them with targeted, meticulous and sustainable solutions. We constantly communicate with our clients to understand their sustainability needs and provide them with professional and feasible advice.

### 核心價值觀：合作

作為香港最專業的可持續發展及環境顧問公司之一，沛然環保不僅致力推動企業的可持續發展，更致力於將可持續發展融入公司的發展策略及貫穿我們的價值鏈。因此，與我們的員工、客戶、供應商、承包商和其他從持份者共同創造價值是我們的可持續發展承諾之一。

### 鼓勵我們的客戶

在沛然環保，我們致力於服務來自不同領域的客戶，包括房地產開發商和業主、建築師和設計師、專業公司和物業管理辦公室、以及政府機關和公共機構、承建商以及香港交易所上市公司，為他們提供提供有針對性、細緻且可持續的解決方案。我們通過持續的溝通來了解客戶的可持續發展需求，並為他們提供專業可行的建議。





# PARTNERSHIPS TOWARDS NET-ZERO

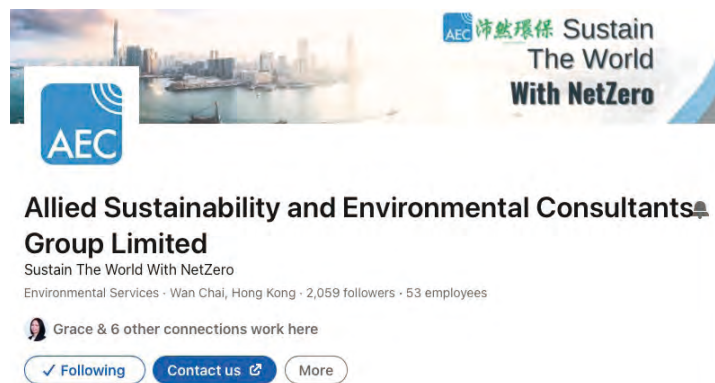
## 邁向淨零的夥伴關係

### Maintaining Ongoing Communication

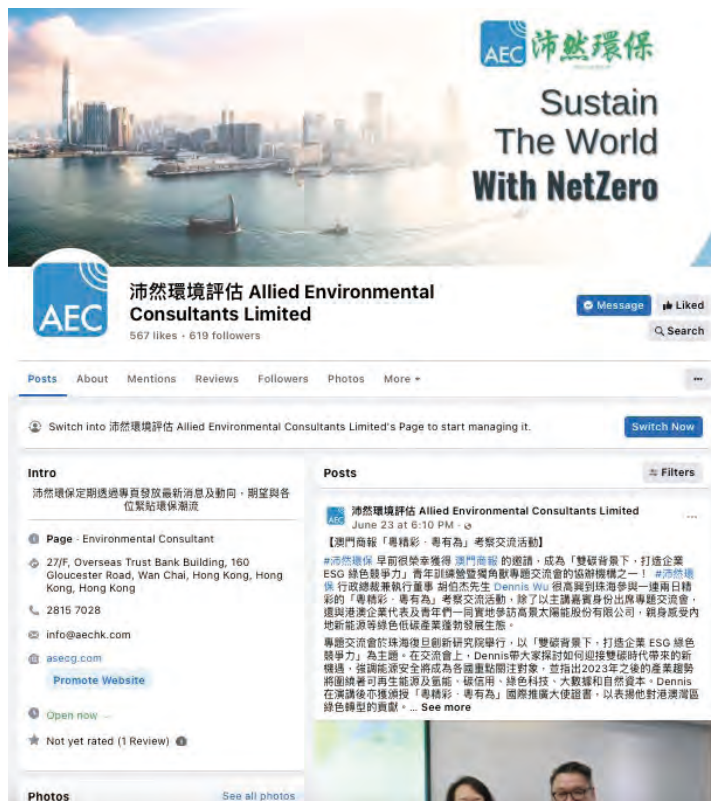
We maintain constant contact with our clients. Our corporate website and various social media including Facebook, LinkedIn and WeChat are important mediums for interacting with clients and building long-term relationships. We look forward to sharing our latest developments and sustainability journey with clients through our online resources.

### 持續溝通

沛然環保定期與客戶溝通。我們的公司網站和各種社交媒體，包括Facebook、LinkedIn和WeChat，都是我們與客戶互動和建立長期關係的重要媒介。我們期待通過我們的在線資源與客戶分享我們的最新發展和可持續發展之旅。



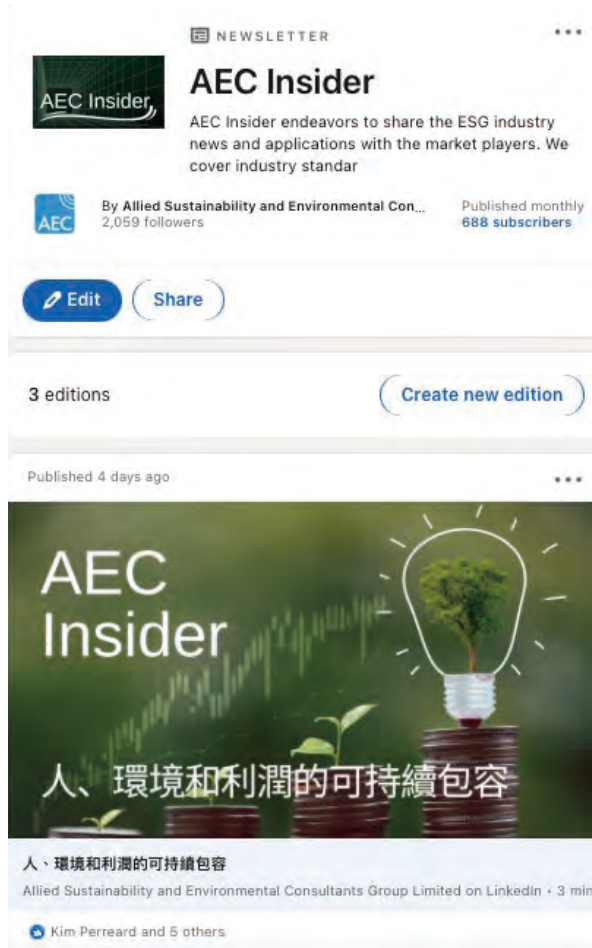
LinkedIn page of AEC 沛然環保的LinkedIn主頁



Facebook page of AEC 沛然環保的Facebook主頁

## PARTNERSHIPS TOWARDS NET-ZERO

### 邁向淨零的夥伴關係



Investors Relation News Information 投資者關係新聞資訊

### Privacy Protection

Protecting personal data and the privacy of our clients is the foundation of our trust with our clients and other stakeholders. We strictly abide by data privacy laws and regulations, and have established confidentiality rules to guide employee behavior. To reduce the risk of leakage and misuse of confidential data, our employees also take necessary precautions, such as checking all documents before sending out. Unauthorized use of client data is strictly prohibited.

### 保障私隱

保護客戶的個人數據和私隱是我們與客戶和其他持份者信任的基礎。我們嚴格遵守數據私隱相關的法律和法規，並制定了保密規則來指導員工的行為。為了減少機密數據洩露和濫用的風險，我們的員工還採取了必要的預防措施，例如在發送之前檢查所有文件。未經授權而使用客戶信息是被嚴格禁止的。

# PARTNERSHIPS TOWARDS NET-ZERO

## 邁向淨零的夥伴關係

### Protecting Intellectual Property Rights

AEC has established policies and guidelines in accordance with all applicable legal requirements to prevent infringement of intellectual property rights and is committed to maintaining the confidentiality of all proprietary technology and privileged information in our day-to-day business activities. During the Year, we have not received any client complaints or serious violations of privacy and intellectual property-related laws and regulations.

### Engaging our Value Chain

AEC aims to maintain collaborative and trusting supplier relationships to ensure our competitive edge and sustain daily operations. The Group requires suppliers to follow our requirements on business ethics, ethical conduct, labor practices, environmental conservation, human rights and legal compliance to guarantee quality standards and sustainability performance. For the sake of ensuring the competitive edge and maintain daily operations, AEC strives to maintain good relationships with suppliers who also need to follow the requirement on business ethics, ethical conduct, labor practices, environmental conservation, human rights and legal compliance to guarantee quality standards and sustainability performance.

### 保護知識產權

沛然環保已根據所有適用的法律和法規要求而制定政策和指導方針，以禁止侵犯知識產權，並在日常業務活動中致力於維持一切專有技術和特權信息的機密性。本年度內，我們沒有收到任何客戶投訴或重大違反與私隱和知識產權有關的相關法律和規例之事宜。

### 參與我們的價值鏈

沛然環保旨在維持合作和信任的供應商關係，以確保我們的競爭優勢並維持日常運營。本集團要求供應商遵守我們在商業道德、道德操守、勞工實踐、環境保護、人權和法律合規方面的要求，以保證質量標準和可持續發展表現。為了確保競爭優勢和維持日常運營，沛然環保努力與供應商保持良好關係，這些供應商也需要遵守商業道德、道德行為、勞工實踐、環境保護、人權和法律合規等要求，以保證質量標準和可持續性表現。



# PARTNERSHIPS TOWARDS NET-ZERO

## 邁向淨零的夥伴關係

### Green Supply Chain

Beyond dispute, supply chain can create impacts significantly in encouraging environmental, social and economic progress. Thus, the Group is implementing a sustainable supply chain management strategy to oversee and mitigate the risk associated with supply chain.

### 綠色供應鏈

無可否認，供應鏈可以在鼓勵環境、社會和經濟進步方面產生重大影響。因此，本集團正在實施可持續的供應鏈管理戰略，以監督和減輕與供應鏈相關的風險。

#### Selection criteria 選擇標準

- 1 Select based on their previous work experience and performance, and service/production capability  
根據以往的工作經驗和表現，以及服務/生產能力進行選擇

#### Compliance monitoring 合規監控

- 2 Oversee the entire project cycle to ensure their regulatory compliance to minimize potential risk  
監督整個項目週期，以確保其合規性以最大程度地降低潛在風險

#### Communication channel 溝通渠道

- 3 Host regular meetings with them to convey our expectations such as project schedule and quality requirement  
與他們定期召開會議，傳達我們的期望，例如項目進度和質量要求

With the aim of environmental and social responsibility along with supply chain, local suppliers are preferred whenever possible to minimize the carbon emissions from transportation and to support local economy. During the Year, we worked with over 28 suppliers and all of them are local suppliers.

沛然環保以環境和社會責任以及供應鏈為目標，盡可能首選本地供應商，以盡量減少運輸中的碳排放並支持當地經濟。本年度內，我們與超過28家供應商合作，全部為本地供應商。

### Sustainable Procurement

We have been a member of the Green Council's Sustainable Procurement Charter since 2018 to ensure the consistency with business commitments. We also promised to carry out sustainable procurement practices. As a member of the Charter, we have to meet the requirements stated in the ISO 20400 Sustainable Procurement – Guidance. During the Year, we have developed a Sustainable Procurement Policy to implement green purchasing in our day-to-day operations.

### 可持續採購

自二零一八年以來，我們一直是環保促進會可持續採購約章的成員，以確保與業務承諾的一致性。我們還承諾開展可持續採購實踐。作為章程的成員，我們必須滿足ISO 20400永續採購指南中的要求。本年度內，我們制定了可持續採購政策，在日常營運中推行可持續採購。



可持續採購約章  
SUSTAINABLE  
PROCUREMENT  
CHARTER

# PARTNERSHIPS TOWARDS NET-ZERO

## 邁向淨零的夥伴關係

Also, we are a Sustainable Consumption Enterprise under the “Fostering Sustainable Consumption for Hong Kong Business and the Community” program of BEC.

此外，我們是BEC的「推動香港商界及社區可持續消費」計劃中支持可持續消費行為企業之一。

### Sustainable Procurement 可持續採購

|              |  |
|--------------|--|
| Objective 目的 | Establish, implement and convey a green procurement policy to staff members<br>建立、實施並向員工傳達綠色採購政策                             |
| Goal 目標      | Organize at least one sharing session for employees once a green procurement policy is established<br>建立綠色採購政策後，為員工舉辦至少一次分享會 |

## Responsible Investment

During the Year, the Group has established the Responsible Investment Committee to integrate responsible investment principles into investment planning, which takes into account the impact of ESG, sustainability, climate resilience, biodiversity, and carbon neutrality on the long-term investment returns and their respective positive impacts. The Group actively expanded its business footprint and adhered to building a diversified portfolio, including Building Information Modeling (“BIM”) project life cycle, green business and Consumer goods. As of the end of the Year, the Group has invested approximately HKD1.57 million in low-carbon technology business.

## 責任投資

本年度內，本集團成立責任投資委員會，將責任投資原則納入投資規劃，考慮ESG、可持續發展、氣候適應力、生物多樣性和碳中和對長期投資回報及其影響的影響。各自的積極影響。本集團積極拓展業務版圖，堅持構建多元化的產品組合，包括建築信息模型(「BIM」)項目生命週期、綠色商業和消費品。截至本年度末，本集團已在低碳科技業務上投入約157萬港元。

## Core values: Awareness

## 核心價值觀：意識

### Empowering our Community

### 賦權於我們的社區





## PARTNERSHIPS TOWARDS NET-ZERO

### 邁向淨零的夥伴關係

With active involvement in numerous exterior engagement activities, AEC sustains the idea of boosting sustainability awareness among our stakeholders and generating shared values jointly in our communities. We seek community engagement to strengthen our sustainability actions for a greener city.

#### Career Talks

AEC acknowledges that nurturing the next generation is a fundamental way to foster sustainability effectively. Hence, the Group remains dedicated to unleashing the youth potential, specifically in the environmental field. During the Year, AEC has delivered 2 career talks to provide our sustainable development vision to the students and the graduates.

##### Sharing at HKUST 香港科技大學分享

AEC shared its thoughts about the Challenges and Opportunities for ESG Integration at HKUST. 沛然環保在香港科技大學分享了其對ESG整合的挑戰和機遇的看法。

##### BEAM Affiliate Training Sessions delivering to HKUST, CITYU, CU & HKU 為香港科技大學、香港城市大學、香港中文大學和香港大學提供的綠 建通才培訓課程

AEC spoke for the BEAM Society about Construction Environmental Management (CEM) under Integrated Design & Construction Management (IDCM) which targeted the audience from The Hong Kong University of Science and Technology, City University of Hong Kong, The Chinese University of Hong Kong and The University of Hong Kong. 沛然環保代表建築環保評估協會就綜合設計與建造管理(IDCM)下的施工環境管理計劃(CEM)發表演講，聽眾來自香港科技大學、香港城市大學、香港中文大學和香港大學。

通過積極參與多個外界活動，沛然環保秉持提高持份者可持續性的意識，並在我們營運的社區中發展共同價值觀的理念。我們致力聯繫社區，以加強我們的可持續工作，以建設一個更可持續發展的城市。

#### 職業講座

沛然環保深知對下一代的培育是有效促進可持續發展的基礎之一。因此，本集團繼續致力於釋放年輕人的潛能，尤其是在環保領域。在本年度內，沛然環保舉辦了2場職業講座，為學生和畢業生分享我們對可持續發展的願景。



# PARTNERSHIPS TOWARDS NET-ZERO

## 邁向淨零的夥伴關係

### Industry Engagement

During the Year, AEC continued growing with our industry partners in challenging times. We have participated in and organized sustainability workshops and seminars to facilitate knowledge exchanges.

於本年度內，沛然環保與其行業合作夥伴在充滿挑戰的時期繼續發展。我們參與並組織了可持續發展工作坊和研討會，以促進知識交流。

In the Year, AEC was proud to join the ranks of WorldGBC Asia Pacific Net Zero Collaborators and be the founding member of GBACNA. GBACNA is a non-profit association aims to promote the systematic change of economy and society in line with the trend of global ecological management change.

本年度內，沛然環保很榮幸地加入了世界綠色建築委員會亞太區淨零合作夥伴行列，並成為大灣區碳中和協會的創始成員。大灣區碳中和協會是一個非營利性協會，旨在順應全球生態治理變革趨勢，推動經濟社會系統性變革。

The GBA Low Carbon Buildings TOP 100 Award presented by GBACNA to acknowledge the role models of low-carbon buildings in the Greater Bay Area was sponsored by AEC.

大灣區低碳建築TOP 100大獎由大灣區碳中和協會頒發，並由沛然環保贊助，旨在表彰大灣區低碳建築的典範。

### 行業參與



## PARTNERSHIPS TOWARDS NET-ZERO

### 邁向淨零的夥伴關係

AEC has contributed to the Climate Change Framework for Built Environment launched by HKGBC to address the high demand from the building industry for clear net-zero definitions and mechanisms, playing roles as:

沛然環保為香港綠色建築議會推出的《建築環境氣候變化框架》作出了貢獻，以滿足建築行業對明確的淨零定義和機制的巨大需求，並發揮了以下作用：

- **Editorial Panel**  
編輯小組
- **Convener leading the development of Physical Climate Risk Assessment and Climate Adaptation and Resilience**  
實體氣候風險評估及氣候適應和應變能力發展的召集人
- **Expert Group for Embodied Carbon and Adaptation & Resilience**  
隱含碳與氣候適應和應變專家小組
- **As one of the supporting organization and pilot testing of carbon calculator**  
作為碳排放量計算器的支持機構和試點之一



## PARTNERSHIPS TOWARDS NET-ZERO

### 邁向淨零的夥伴關係

AEC has partnered with Carbon Risk Real Estate Monitor (CRREM) to accelerate the net-zero transition of real estate sector in the Asia Pacific region. CRREM provides the real estate industry with transparent, science-based decarbonization pathways aligned with the Paris Climate Goals of limiting global temperature rise to 2°C, with ambition towards 1.5°C.

沛然環保與碳風險房地產監測(「CRREM」)合作，致力加速亞太地區房地產行業的淨零轉型。CRREM為房地產行業提供既透明且基於科學的減碳路徑，並與巴黎協定目標保持一致，將全球平均升溫限制在2°C之內，並以1.5°C為目標。

As the GRESB Asia-Pacific training partner and the first Partner of CRREM in Hong Kong and the PRC, AEC strives to support companies of all sizes in their decarbonization journey using the updated CRREM-SBTi aligned pathway.

作為全球房地產可持續發展標準亞太培訓合作夥伴及CRREM於香港和內地的首個合作夥伴，沛然環保致力於透過最新CRREM-SBTi減碳路徑，協助各規模的公司減碳。

During the Year, AEC capitalized on our professional capabilities, providing training on city planning for sustainability in 4D and 5D BIM for managing construction time and cost on BIM data repository and BIM API for Lands Department, while also supporting events such as the 2022 GRESB Regional Insights Event (Hong Kong) to have an in-depth sharing of the global real estate ESG performance benchmarking and the latest development of GRESB. Additionally, AEC supported the Hong Kong Institution of Engineers (HKIE) Environmental Division Annual Forum-Engineering Net Zero Transition to foster knowledge sharing and engagement in environmental initiatives, and joined the HKIQEP Youth Summit discussion and demonstration of how young environmental professionals across different sectors can take an active role in achieving carbon neutrality in the GBA.

於本年度內，沛然環保運用自身的專業能力，為地政總署提供4D和5D BIM可持續城市規劃培訓，以管理BIM數據存儲庫和BIM API的施工時間和成本，同時還支持2022 GRESB Regional Insights Event (Hong Kong)活動，旨在深入分享全球房地產ESG績效對標和GRESB的最新發展。此外，沛然環保支持香港工程師學會環境部年度論壇－工程界淨零轉型，以促進知識共享和參與環境倡議，並參加HKIQEP青年峰會的討論和展示給從事不同行業的年輕環境專業人士如何在大灣區實現碳中和方面發揮積極作用。





# PARTNERSHIPS TOWARDS NET-ZERO

## 邁向淨零的夥伴關係

### *The Youth Boardroom 21/22 Roundtable Summit* 青年董事會議室21/22圓桌峰會

AEC was invited as a guest speaker at the Youth Boardroom 21/22 Roundtable Summit organized by the HKFYG Leadership Institute. At the Summit, Grace shared her professional knowledge on zero waste and the municipal waste charging scheme and demonstrated communication skill sets adopted by leaders to all participants.

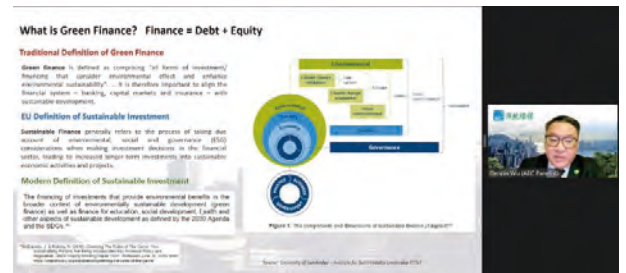
沛然環保應邀擔任香港青年協會領袖學院「青年董事會議室21/22圓桌峰會」評審嘉賓之一。在分享環節中，Grace向一眾青年朋友分享有關本港減廢及都市固體廢物收費政策的專業分析及見解，亦教導一眾參加者溝通及演說技巧。



### *WorldGBC Net Zero Solutions Around the World in 24 hours* 世界綠色建築委員會Net Zero Solutions Around the World in 24 hours

AEC supported the event “Net Zero Solutions Around the World in 24 hours”, which was organized by the WorldGBC, by delivering a presentation on green finance, fostering the development of green technology and advancing carbon neutrality.

沛然環保通過發表關於促進綠色技術發展和推進碳中和的綠色金融的演講，支持世界綠色建築委員會舉辦的Net Zero Solutions Around the World in 24 hours。



### *EMSD Briefing Session and Public Seminar* 機電工程署簡介會及公眾講座

In a Public Seminar on Energy Efficiency and Conservation held by EMSD, AEC presented to drive decarbonization through target setting. In the Energy Efficiency and Conservation Public Seminar, AEC presented to drive decarbonization through target setting. In the Energy Efficiency and Conservation Public Seminar, AEC presented to drive decarbonization through target setting.





# PARTNERSHIPS TOWARDS NET-ZERO

## 邁向淨零的夥伴關係

### ESG Green Build Conference (GBC 2022) ESG綠色建築大會(GBC 2022)

AEC joined the sustainable built environment-focused hybrid conference to articulate green buildings in the era of NetZero and Healthy Built Environment under the theme “Accelerating Sustainability in Malaysia’s Real Estate Sector”.

沛然環保參加了以可持續建築環境為以「加速馬來西亞房地產行業的可持續發展」為主題的會議，闡述淨零和健康建築環境時代的綠色建築。



### Case Sharing on BEAM Plus New Buildings v2.0 Provisional Platinum Project – Urban Renewal Authority’s Composite Development at Ash Street, Tai Kok Tsui

BEAM Plus新建建築v2.0暫定鉑金項目個案分享－市區重建局大角咀槐樹街綜合發展項目

AEC shared the knowledge and project experience on the advanced green features and sustainable design concepts of this BEAM Plus project with BEAM practitioners and members. The target audience includes BEAM Professionals and BEAM Affiliates, Engineers, Architects, Surveyors, Green Building Practitioners, etc.

沛然環保與BEAM Plus從業者和會員分享了關於BEAM Plus項目的綠色特徵、可持續設計理念和項目經驗。目標觀眾包括綠建專才和綠建通才、工程師、建築師、測量師、綠色建築從業員等。



### Financial Times webinar: Accelerating Corporate Action in Hong Kong’s Race to Net Zero

《金融時報》網絡研討會：在香港實現淨零排放的競賽中加快企業行動

AEC discussed solutions and opportunities to accelerate sustainable development and deliver better results for investors, businesses, and the people of Hong Kong in the Hong Kong business and finance community in the webinar.

沛然環保在網絡研討會上討論加速可持續發展並為投資者、企業和香港市民帶來更好成果的解決方案和機會。



# PARTNERSHIPS TOWARDS NET-ZERO

## 邁向淨零的夥伴關係

### Green Finance Promotion

Green financing is one of the best ways to change the world by providing clean and green technologies to impact the environment positively through an ecological approach to allocating the funds. As an environmental consulting company, AEC has been promoting the concept and benefits of green finance to popularize green financing.

#### HKGFA-HKUST Certificate in Sustainable Finance HKGFA-HKUST可持續金融證書

AEC supported the Certificate in Sustainable Finance program run by HKUST Business School Executive Education Office as a guest speaker sharing about the Environmental and Climate Risk Analysis (ESG risks). 沛然環保支持香港科技大學商學院高級管理人員課程開辦的可持續金融證書課程，並作為演講嘉賓分享環境和氣候風險分析(ESG風險)。

### 綠色金融推廣

綠色金融是為世界帶來改變的最佳方式之一，通過積極提供清潔和綠色技術，以生態考量分配資金以影響環境。沛然環保作為一家環境顧問公司，沛然環保致力於推廣綠色金融的理念和效益，期望普及綠色金融。



### Giving Back to the Community

All walks of life matter to AEC. With the use of our knowledge and power, AEC had undertaken the following activities to help and give back to the community. In the Year, AEC wholeheartedly supported the Hong Kong Green Day initiative by generously donating HKD10,000, aiming to significantly amplify public environmental awareness.

### 回饋社區

沛然環保與各行業同心同行。沛然環保利用了我們的知識和力量，開展了以下活動來幫助和回饋社區。於本年度內，沛然環保慷慨捐助10,000港元，全力支持香港綠色日活動，旨在顯著提高公眾的環保意識。

# LOOKING FORWARD

## 展望將來

As a sustainability and environmental consulting company, we will continue to do our part in building a more sustainable and environmentally friendly society. The worldwide COVID-19 pandemic has emphasized the necessity of incorporating sustainability and ESG concerns into company operations and strategy. With this in mind, AEC will continue to expand our sustainability footprint by introducing sustainable principles to the business sector and beyond, in order to improve the quality of life for urban residents in a healthier living environment.

作為可持續發展和環境顧問的公司，我們將持續為建設一個更可持續和環保友好社會而盡一分力。2019冠狀病毒病在全球肆強調了將可持續性和ESG納入公司運營和策略中的必要性。考慮到這一點，沛然環保將繼續擴大我們的可持續發展足跡，將可持續原則納入領域及其他領域，以在更健康的生活環境中提高市民的生活品質。

# MEMBERSHIPS AND CHARTERS

## 會籍和憲章

| Membership Logo<br>會籍標識   | Organization<br>組織   |
|---|--|
|    | BRE Academy<br>英國建築研究院學會   |
|    | General Member of Business Environment Council<br>商界環保協會企業會員   |
|    | Corporate Member of China Green Building (Hong Kong) Council<br>中國綠色建築與節能(香港)委員會公司會員                                   |
|    | Silver Patron of Hong Kong Green Building Council<br>香港綠色建築議會銀牌贊助  |
|    | The Chamber of Hong Kong Listed Companies<br>香港上市公司商會  |
|  | The Hong Kong General Chamber of Commerce<br>香港總商會   |
|  | Education Partner of U.S. Green Building Council<br>美國綠色建築議會教育合作夥伴   |
|  | Corporate Member of China Real Estate Chamber of Commerce Hong Kong and International Chapter<br>全國工商聯房地產商會香港及國際分會公司會員 |
|  | GRESB Partner<br>全球房地產可持續發展標準夥伴  |
|  | Hong Kong Green Finance Association<br>香港綠色金融協會  |
|  | Cornerstone Member of International WELL Building Institute<br>國際WELL建築健康研究院基石成員                                       |
|  | Hong Kong Alliance of Built Asset & Environment Information Management Associations<br>香港建設資產及環境信息管理聯盟                 |
|  | The GRI Community<br>GRI社群   |
|  | Federation of Hong Kong Industries<br>香港工業總會   |
|  | Hong Kong Independent Non-Executive Director Association<br>香港獨立非執行董事協會  |

## MEMBERSHIPS AND CHARTERS

### 會籍和憲章

| Membership Logo<br>會籍標識   | Organization<br>組織   |
|---|--|
|  | WorldGBC Asia Pacific Net Zero Collaborator<br>世界綠色建築委員會亞太地區淨零合作夥伴   |
|  | Silver Member of U.S. Green Building Council<br>美國綠色建築委員會銀級會員  |
|  | Hong Kong Investors Relations Association<br>香港投資者關係協會   |
|  | Global Scientific & Investor Committee (advisory board of Carbon Risk Real Estate Monitor)<br>全球科學與投資者委員會(碳風險房地產監測顧問委員會) |



# AWARDS AND RECOGNITIONS

## 獎項與榮譽

| Program<br>計劃  | Award Name<br>獎項名稱   | Organizer<br>主辦方                                  | Logos/Certificates<br>標誌/證書   |
|--|--|---|---|
| Hong Kong Green Awards 2022<br>香港綠色企業大獎 2022   | Green Management Award – Service Provider (SME) – Bronze<br>優越環保管理獎(中小企) – 服務提供者 – 銅獎<br><br>Sustained Performance (8 Years+)<br>連續獲獎機構(8年或以上) | Green Council<br>環保促進會                            |    |
| BDO ESG Awards 2022<br>2022 BDO環境、社會及管治大獎  | Best in ESG – GEM<br>ESG最佳表現大獎 – GEM<br><br>Best in Reporting – GEM<br>最佳ESG報告大獎 – GEM<br><br>ESG Report of the Year – GEM<br>ESG年度大獎 – GEM    | BDO Limited<br>香港立信德豪                             |   |
| Hong Kong Green Organization Certification<br>香港綠色機構認證   | Energywi\$e Certificate<br>節能證書  | Environmental Campaign Committee<br>環境運動委員會       |  |
| Mental Health Workplace Charter<br>精神健康職場約章  | Mental Health Friendly Organization<br>精神健康友善機構  | Occupational Safety and Health Council<br>職業安全健康局 |  |
| Industry Cares 2022<br>工業獻愛心2022   | 5 Years+ Caring Certificate<br>5年+ 愛心關懷證書  | Federation of Hong Kong Industries<br>香港工業總會      |  |
| Caring Company 2022/23<br>商界展關懷2022/23   | 5 Years+ Caring Company<br>5年+ 商界展關懷   | Hong Kong Council of Social Service<br>香港社會服務聯會   |  |
| Green Office Awards Labelling Scheme (GOALS)<br>綠色辦公室獎勵計劃  | Certificate of Recognition<br>認可證書   | World Green Organisation<br>世界綠色組織                |  |
| HKCT Business Awards 2022<br>HKCT企業大獎2022  | Most Outstanding Business Leader of the Year<br>年度最傑出環保顧問服務  | Hong Kong Economic Times<br>香港商報                  |  |
| 2022 Women In Sustainability Leadership Awards (WSLA)<br>Women in Sustainability Leadership Awards | Leading with passion, perseverance, and planetary results<br>以激情、毅力和行星結果領導   | WSLA Alumnae Group<br>WSLA校友會                     |  |
| InnoESG Prize 2022<br>InnoESG獎2022   | ESG Award 2022<br>ESG獎2022   | SocietyNext Foundation<br>社群創客基金                  |  |

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## 內容索引

|                          |  |
|--------------------------|--|
| Statement of use<br>使用聲明 | Allied Sustainability and Environmental Consultants Group Limited has reported in accordance with the GRI Standards for the Year (from 1 April 2022 to 31 March 2023).<br>沛然環境評估工程顧問有限公司已依循GRI準則報導本年度(二零二二年四月一日至二零二三年三月三十一日)的內容。 |
|--------------------------|--|

|                        |   |
|------------------------|---|
| GRI 1 used<br>使用的GRI 1 | GRI 1: Foundation 2021<br>GRI 1：基礎 2021 |
|------------------------|---|

|   |            |
|---|------------|
| Applicable GRI Sector Standard(s)<br>適用的GRI行業準則 | N/A<br>不適用 |
|---|------------|

### Disclosure of the GRI Standard GRI準則的披露項目

### General Disclosure (“GD”) and Key Performance Indicator (“KPI”) of the HKEX ESG Guide 香港聯交所ESG指引一般披露 (「GD」)及關鍵績效指標(「KPI」)

### Section/Statement 章節／陳述

### GRI 2: General Disclosures 2021 GRI 2：一般披露2021

#### Organizational profile 組織概況

|     |  |   |
|-----|--|---|
| 2-1 | Organizational details<br>組織詳情   | Who We Are<br>公司簡介  |
| 2-2 | Entities included in the organization's<br>sustainability reporting<br>可持續發展報告中包含的實體 | Annual Report 2022/23 contains<br>additional information about our<br>principal activities in the sections<br>entitled “Business Review”.<br>二零二二／二三年報內「業務回顧」<br>的章節中詳述我們的主要活動。                             |
| 2-3 | Reporting period, frequency and contact point<br>報告期、報告頻率和聯絡人                        |   |
| 2-4 | Restatements of information<br>信息重述  |   |
| 2-5 | External assurance<br>外界認證   | The Group has not sought external<br>assurance for our sustainability<br>report, but the ESG Committee<br>shall consider it for upcoming<br>reports.<br>本集團並未為我們的可持續發展報<br>告尋求外部鑑證，但ESG委員會將<br>在往後的報告中予以考慮。 |

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|--|---|--|
| <b>Activities and workers</b><br>活動及員工   |   |  |
| 2-6 Activities, value chain and other business relationships<br>活動、價值鍊和其他業務關係                          | KPI B5.1  | Partnerships Towards Net-Zero<br>邁向淨零的夥伴關係   |
| 2-7 Employees<br>員工  | KPI B1.1  | Our Sustainable Team<br>我們的可持續團隊   |
| 2-8 Workers who are not employees<br>非僱員的員工  |   | Partnerships Towards Net-Zero<br>邁向淨零的夥伴關係   |
| <b>Governance</b><br>管治  |   |  |
| 2-9 Governance structure and composition<br>管治架構及組成  |   | Sustainability Governance<br>可持續發展管治   |
| 2-10 Nomination and selection of the highest governance body<br>最高管治機構的選擇                              |   | Sustainability Governance<br>可持續發展管治<br>Annual Report 2022/23 –<br>Corporate Governance Report<br>二零二二／二三年報－企業管治報告 |
| 2-11 Chair of the highest governance body<br>最高管治機構主席  |   | Sustainability Governance<br>可持續發展管治<br>Annual Report 2022/23 –<br>Corporate Governance Report<br>二零二二／二三年報－企業管治報告 |
| 2-12 Role of the highest governance body in overseeing the management of impacts<br>最高管治機構在監督影響管理方面的角色 |   | Sustainability Governance<br>可持續發展管治<br>Annual Report 2022/23 –<br>Corporate Governance Report<br>二零二二／二三年報－企業管治報告 |
| 2-13 Delegation of responsibility for managing impacts<br>管理影響的責任授權                                    |   | Sustainability Governance<br>可持續發展管治   |

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|--|---|--|
| <b>Governance</b><br>管治                      |   |  |
| 2-14   | Role of the highest governance body in sustainability reporting<br>最高管治機構在可持續性報告中的角色  | Sustainability Governance<br>可持續發展管治   |
| 2-15   | Conflicts of interest<br>利益衝突   | Corporate Governance<br>企業管治   |
| 2-16   | Communication of critical concerns<br>關鍵問題的溝通   | Sustainability Governance<br>可持續發展管治   |
| 2-17   | Collective knowledge of the highest governance body<br>最高管治機構的集體知識  | Sustainability Governance<br>可持續發展管治   |
| 2-18   | Evaluation of the performance of the highest governance body<br>最高管治機構績效評價  | Annual Report 2022/23 –<br>Corporate Governance Report<br>二零二二／二三年報－企業管治報告                                     |
| 2-19   | Remuneration policies<br>薪酬政策   | Our Sustainable Team<br>我們的可持續團隊<br>Annual Report 2022/23 –<br>Corporate Governance Report<br>二零二二／二三年報－企業管治報告 |
| 2-20   | Process to determine remuneration<br>薪酬確定的流程  | Annual Report 2022/23 –<br>Employees and Remuneration<br>Policies<br>二零二二／二三年報－員工及薪酬政策                         |
| 2-21   | Annual total compensation ratio<br>年度總薪酬比例  | Annual Report 2022/23 – Notes<br>to the Consolidated Financial<br>Statements<br>二零二二／二三年報－合併財務報表附註             |

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### Section/Statement 章節／陳述

### Strategy, policies and practices 策略、政策及實踐

|      |  |   |
|------|--|---|
| 2-22 | Statement on sustainable development strategy<br>可持續發展策略聲明         | Foreword<br>前言<br>Our Commitments to Sustainability<br>我們對可持續發展的承諾  |
| 2-23 | Policy commitments<br>政策承諾   | Our Commitments to Sustainability<br>我們對可持續發展的承諾  |
| 2-24 | Embedding policy commitments<br>嵌入政策承諾                             | Our Commitments to Sustainability<br>我們對可持續發展的承諾  |
| 2-25 | Processes to remediate negative impacts<br>補救負面影響的流程               | Materiality Assessment<br>重要性評估<br>Stakeholder Engagement<br>持份者參與  |
| 2-26 | Mechanisms for seeking advice and raising concerns<br>尋求建議和提出疑慮的機制 | Materiality Assessment<br>重要性評估<br>Stakeholder Engagement<br>持份者參與  |
| 2-27 | Compliance with laws and regulations<br>遵守法律法規                     | In 2022/23, the Group has not been subject to significant fines or non-monetary sanctions for non-compliance with such laws or regulations.<br>本年度內，沛然環保並未發現任何違反該等法律或法規的重大罰款或非金錢制裁。 |
| 2-28 | Membership associations<br>會員協會                                    | Memberships and Charters<br>會籍和憲章   |



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|--|--|---|
| <b>Stakeholder engagement</b><br>持份者參與   |  |   |
| 2-29 Approach to stakeholder engagement<br>持份者參與的方法  |  | Stakeholder Engagement<br>持份者參與   |
| 2-30 Collective bargaining agreements<br>集體談判協定  |  | Within the reporting scope, there are no formal collective bargaining agreements in place.<br>報告範圍內並無正式的集體談判協議。 |
| <b>GRI 3: Material Topics 2021</b><br>GRI 3：重大主題2021   |  |   |
| 3-1 Process to determine material topics<br>決定重要議題的過程  |  | Materiality Assessment<br>重要性評估   |
| 3-2 List of material topics<br>重要性議題列表   |  |   |
| <b>201: Economic Performance 2016</b><br>201：經濟表現2016  |  |   |
| 3-3 The management approach and its components<br>管理方針及其組成   | GD A4  | Please refer to our Annual Report 2022/23<br>請參閱我們的二零二二／二三年報  |
| 201-1 Direct economic value generated and distributed<br>直接產生和分配的經濟價值  | KPI B8.2   |   |
| 201-2 Financial implications and other risks and opportunities due to climate change<br>氣候變遷所產生的財務影響及其他風險與機會 | KPI A4.1   | Task Force on Climate-related Risk Disclosures<br>與氣候相關的財務信息披露工作組   |
| <b>205: Anti-corruption 2016</b><br>205：反貪污2016  |  |   |
| 3-3 The management approach and its components<br>管理方針及其組成   | GD B7<br>KPI B7.2  | Corporate Governance<br>企業管治  |
| 205-3 Confirmed incidents of corruption and actions taken<br>已確認的貪腐事件及採取的行動                                  | KPI B7.1   | Corporate Governance<br>企業管治  |

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### Section/Statement 章節／陳述

#### 302: Energy 2016 302：能源2016

|       |   |                |   |
|-------|---|----------------|---|
| 3-3   | The management approach and its components<br>管理方針及其組成                        | GD A2<br>GD A3 | Driving Sustainable Operations<br>推動可持續營運   |
| 302-1 | Energy consumption within the organization<br>組織內部的能源消耗量                      | KPI A2.1       | Driving Sustainable Operations<br>推動可持續營運   |
| 302-2 | Energy consumption outside the organization<br>組織外部的能源消耗量                     | KPI A2.1       | It is not material to our operations,<br>as AEC is a service-based<br>consultancy firm that does not rely<br>on energy-intensive operations.<br>這對我們的營運並不重要，因為沛<br>然環保是一間顧問公司，不依賴能<br>源密集型營運。 |
| 302-3 | Energy intensity<br>能源密集度   | KPI A2.1       | Driving Sustainable Operations<br>推動可持續營運   |
| 302-4 | Reduction of energy consumption<br>減少能源消耗                                     | KPI A2.3       | Driving Sustainable Operations<br>推動可持續營運   |
| 302-5 | Reductions in energy requirements of products<br>and services<br>降低產品和服務的能源需求 | KPI A2.3       | It is not material to our operations,<br>as AEC is a service-based<br>consultancy firm that does not rely<br>on energy-intensive operations.<br>這對我們的營運並不重要，因為沛<br>然環保是一間顧問公司，不依賴能<br>源密集型營運。 |

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 (「GD」)及關鍵績效指標(「KPI」)

Section/Statement  
章節／陳述

### 303: Water and Effluents 2018 303：水與放流水2018

|       |  |                |   |
|-------|--|----------------|---|
| 3-3   | The management approach and its components<br>管理方針及其組成     | GD A2<br>GD A3 | Driving Sustainable Operations<br>推動可持續營運 |
| 303-1 | Interactions with water as a shared resource<br>共享水資源之相互影響 | KPI A2.4       | Driving Sustainable Operations<br>推動可持續營運 |

AEC did not encounter any issues of sourcing water during the Year. The Group has disclosed the directional target of continuously reducing its water intensity, but it is in the process of developing numerical targets.

沛然環保在本年度沒有遇到任何水源問題。本集團已經披露了持續降低其用水密度的方向性目標，但正在制定數字目標。

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|---|---|---|---|
| <b>305: Emissions 2016</b><br><b>305：排放2016</b> |   |   |   |
| 3-3   | The management approach and its components<br>管理方針及其組成  | GD A1<br>GD A2<br>GD A3   | Driving Sustainable Operations<br>推動可持續營運   |
| 305-1   | Direct (Scope 1) GHG emissions<br>直接(範疇一)溫室氣體排放   | KPI A1.2  | Driving Sustainable Operations<br>推動可持續營運   |
| 305-2   | Energy indirect (Scope 2) GHG emissions<br>能源間接(範疇二)溫室氣體排放  | KPI A1.2  | Driving Sustainable Operations<br>推動可持續營運   |
| 305-3   | Other indirect (Scope 3) GHG emissions<br>其他間接(範疇三)溫室氣體排放   | KPI A1.2  | Driving Sustainable Operations<br>推動可持續營運   |
| 305-4   | GHG emissions intensity<br>溫室氣體排放密集度  | KPI A1.2  | Driving Sustainable Operations<br>推動可持續營運   |
| 305-5   | Reduction of GHG emissions (Referring to our<br>own office only)<br>溫室氣體排放減量(僅參考我們的辦公室)   | KPI A1.5  | Driving Sustainable Operations<br>推動可持續營運   |
| 305-6   | Emissions of ozone-depleting substances (ODS)<br>破壞臭氧層物質的排放   |   | It is not material to our operations,<br>as AEC is a service-based<br>consultancy firm that does not rely<br>on energy-intensive operations.<br>這對我們的營運並不重要，因為沛<br>然環保是一間顧問公司，不依賴能<br>源密集型營運。 |
| 305-7   | NO <sub>x</sub> , SO <sub>x</sub> , and other significant air emissions<br>氮氧化物(NO <sub>x</sub> )、硫氧化物(SO <sub>x</sub> )，及其他重大的<br>氣體排放 | KPI A1.1  | Driving Sustainable Operations<br>推動可持續營運   |

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|--|---|---|
| <b>306: Waste 2020</b><br><b>306：廢棄物2020</b>                                     |   |   |
| 3-3 The management approach and its components<br>管理方針及其組成                       | GD A1<br>GD A3  | Sustainable Operation Initiatives<br>可持續營運倡議<br>Driving Sustainable Operations<br>推動可持續營運   |
| 306-1 Waste generation and significant waste-related impacts<br>廢棄物的產生與廢棄物相關顯著衝擊 |   | Due to the Group's business nature, the Group does not generate significant hazardous waste that will lead to significant actual and potential waste-related impacts.<br>由於本集團的業務性質，本集團不會產生大量有害廢棄物，並不會導致重大的實際和潛在廢棄物相關影響。  |
| 306-2 Management of significant waste-related impacts<br>廢棄物相關顯著衝擊之管理            | KPI A1.6  | Driving Sustainable Operations<br>推動可持續營運<br><br>Due to the Group's business nature, the Group does not generate significant hazardous waste that will lead to significant actual and potential waste-related impacts. However, the Group measure the general waste once a week to collect and monitor the waste-related data.<br>由於本集團的業務性質，本集團不會產生大量有害廢棄物，並不會導致重大的實際和潛在廢棄物相關影響。然而，本集團每週測量一次一般廢棄物，以收集和監測廢棄物相關數據。 |
| 306-3 Waste generated<br>廢棄物的產生  | KPI A1.3<br>KPI A1.4  | Driving Sustainable Operations<br>推動可持續營運   |
| 306-4 Waste diverted from disposal<br>廢棄物的處置移轉                                   |   | Driving Sustainable Operations<br>推動可持續營運   |
| 306-5 Waste directed to disposal<br>廢棄物的直接處置                                     |   | Driving Sustainable Operations<br>推動可持續營運   |



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|--|---|---|
| <b>401: Employment 2016</b><br><b>401：勞僱關係2016</b>   |   |   |
| 3-3 Management approach<br>管理方針  | GD B1   | Our Sustainable Team<br>我們的可持續團隊  |
| 401-1 New employee hires and employee turnover<br>新進員工和離職員工  | KPI B1.2  | Our Sustainable Team<br>我們的可持續團隊  |
| 401-2 Benefits provided to full-time employees that<br>are not provided to temporary or part-time<br>employees<br>提供給全職員工(不包含臨時或兼職員工)的福利 |   | Our Sustainable Team<br>我們的可持續團隊  |
| 402-3 Parental Leave<br>育嬰假  |   | Our Sustainable Team<br>我們的可持續團隊  |
| <b>403: Occupational Health and Safety 2018</b><br><b>403：職業安全衛生2018</b>   |   |   |
| 3-3 The management approach and its components<br>管理方針及其組成   | GD B2<br>KPI B2.3   | Our Sustainable Team<br>我們的可持續團隊<br>– Safeguarding Workforce's<br>Wellness<br>保障員工的健康 |
| 403-1 Occupational health and safety management<br>system<br>職業安全衛生管理系統  | GD B2<br>KPI B2.3   | Our Sustainable Team<br>我們的可持續團隊<br>– Safeguarding Workforce's<br>Wellness<br>保障員工的健康 |
| 403-2 Hazard identification, risk assessment, and<br>incident investigation<br>危害辨識、風險評估、及事故調查   | GD B2<br>KPI B2.3   | Our Sustainable Team<br>我們的可持續團隊<br>– Safeguarding Workforce's<br>Wellness<br>保障員工的健康 |
| 403-3 Occupational health services<br>職業健康服務   | GD B2<br>KPI B2.3   | Our Sustainable Team<br>我們的可持續團隊<br>– Safeguarding Workforce's<br>Wellness<br>保障員工的健康 |

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|--|---|---|
| <b>403: Occupational Health and Safety 2018</b><br><b>403：職業安全衛生2018</b>   |   |   |
| 403-4 Worker participation, consultation, and communication on occupational health and safety<br>有關職業安全衛生之工作者參與、諮商與溝通                            | GD B2<br>KPI B2.3   | Our Sustainable Team<br>我們的可持續團隊<br>– Safeguarding Workforce’s Wellness<br>保障員工的健康                        |
| 403-5 Worker training on occupational health and safety<br>有關職業安全衛生之工作者訓練  | GD B2<br>KPI B2.3   | Our Sustainable Team<br>我們的可持續團隊<br>– Safeguarding Workforce’s Wellness<br>保障員工的健康                        |
| 403-6 Promotion of worker health<br>工作者健康促進  | GD B2<br>KPI B2.3   | Our Sustainable Team<br>我們的可持續團隊<br>– Safeguarding Workforce’s Wellness<br>保障員工的健康                        |
| 403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships<br>預防和減輕與業務關係直接相關聯之職業安全衛生的衝擊 | GD B2<br>KPI B2.3   | Our Sustainable Team<br>我們的可持續團隊<br>– Safeguarding Workforce’s Wellness<br>保障員工的健康                        |
| 403-8 Workers covered by an occupational health and safety management system<br>職業安全衛生管理系統所涵蓋之工作者  | GD B2<br>KPI B2.3   | Our Sustainable Team<br>我們的可持續團隊<br>– Safeguarding Workforce’s Wellness<br>保障員工的健康                        |
| 403-9 Work-related injuries<br>職業傷害  | KPI B2.1<br>KPI B2.2  | During the Year, there were no occupational injuries and work-related fatalities.<br>本年度內，無工傷及與工作有關的死亡人數。 |
| 403-10 Work-related ill health<br>職業病  | KPI B2.3  | Our Sustainable Team<br>我們的可持續團隊<br>– Safeguarding Workforce’s Wellness<br>保障員工的健康                        |

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|--|---|----------------------------------|
| <b>404: Training and Education 2016</b><br><b>404：訓練與教育2016</b>  |   |                                  |
| 3-3 The management approach and its components<br>管理方針及其組成   | GD B3   | Our Sustainable Team<br>我們的可持續團隊 |
| 404-1 Average hours of training per year per employee<br>每名員工每年接受訓練的平均時數   | KPI B3.1<br>KPI B3.2  | Our Sustainable Team<br>我們的可持續團隊 |
| 404-2 Programs for upgrading employee skills and<br>transition assistance programs<br>提升員工職能及過渡協助方案                  |   | Our Sustainable Team<br>我們的可持續團隊 |
| 404-3 Percentage of employees receiving regular<br>performance and career development reviews<br>定期接受績效及職業發展檢核的員工百分比 |   | Our Sustainable Team<br>我們的可持續團隊 |
| <b>405: Diversity and Equal Opportunity 2016</b><br><b>405：員工多元化與平等機會2016</b>  |   |                                  |
| 3-3 The management approach and its components<br>管理方針及其組成   | GD B1   | Our Sustainable Team<br>我們的可持續團隊 |
| 405-1 Diversity of governance bodies and employees<br>管治單位與員工的多元化  | KPI B1.1  | Our Sustainable Team<br>我們的可持續團隊 |
| <b>406: Non-discrimination 2016</b><br><b>406：不歧視2016</b>  |   |                                  |
| 3-3 The management approach and its components<br>管理方針及其組成   | GD B1   | Our Sustainable Team<br>我們的可持續團隊 |
| 406-1 Incidents of discrimination and corrective actions<br>taken<br>歧視事件及採取的糾正行動                                    | GD B1   | Our Sustainable Team<br>我們的可持續團隊 |
| <b>408: Child Labor 2016</b><br><b>408：童工2016</b>  |   |                                  |
| 3-3 The management approach and its components<br>管理方針及其組成   | GD B4   | Our Sustainable Team<br>我們的可持續團隊 |
| 408-1 Operations and suppliers at significant risk for<br>incidents of child labor<br>具有童工勞動事件重大風險的營運點和供應商           | KPI B4.1<br>KPI B4.2  | Our Sustainable Team<br>我們的可持續團隊 |

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|---|---|--|
| <b>409: Forced or Compulsory Labor 2016</b><br><b>409：強迫或強制勞動2016</b>   |   |  |
| 3-3 The management approach and its components<br>管理方針及其組成  | GD B4   | Our Sustainable Team<br>我們的可持續團隊           |
| 409-1 Operations and suppliers at significant risk for incidents of forced or compulsory labor<br>具有強迫或強制勞動事件重大風險的營運點和供應商 | KPI B4.1<br>KPI B4.2  | Our Sustainable Team<br>我們的可持續團隊           |
| <b>413: Local Communities 2016</b><br><b>413：當地社區2016</b>   |   |  |
| 3-3 The management approach and its components<br>管理方針及其組成  | GD B8   | Empowering our Community<br>賦權於我們的社區       |
| 413-1 Operations with local community engagement, impact assessments and development programs<br>有當地社區參與、影響評估和發展計劃的營運點    | KPI B8.1<br>KPI B8.2  | Empowering our Community<br>賦權於我們的社區       |
| <b>414: Supplier Social Assessment 2016</b><br><b>414：供應商社會評估2016</b>   |   |  |
| 3-3 The management approach and its components<br>管理方針及其組成  | GD B5   | Partnerships Towards Net-Zero<br>邁向淨零的夥伴關係 |
| 414-1 New suppliers that were screened using social criteria<br>使用社會標準篩選的新供應商   | KPI 5.2<br>KPI 5.3  | Partnerships Towards Net-Zero<br>邁向淨零的夥伴關係 |
| 414-2 Negative social impacts in the supply chain and actions taken<br>供應鏈中的負面社會影響和採取的行動                                  | KPI 5.2<br>KPI 5.3  | Partnerships Towards Net-Zero<br>邁向淨零的夥伴關係 |
| <b>418: Customer Privacy 2016</b><br><b>418：客戶隱私2016</b>  |   |  |
| 3-3 The management approach and its components<br>管理方針及其組成  | GD B6   | Partnerships Towards Net-Zero<br>邁向淨零的夥伴關係 |
| 418-1 Substantiated complaints concerning breaches of customer privacy and losses of customer data<br>與侵犯客戶私隱和丟失客戶資料的投訴   | KPI B6.5  | Partnerships Towards Net-Zero<br>邁向淨零的夥伴關係 |





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