

廢舊物料處理指南：

環境、管治與社會責任 協助澳門永續發展



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妥善處理廢料的
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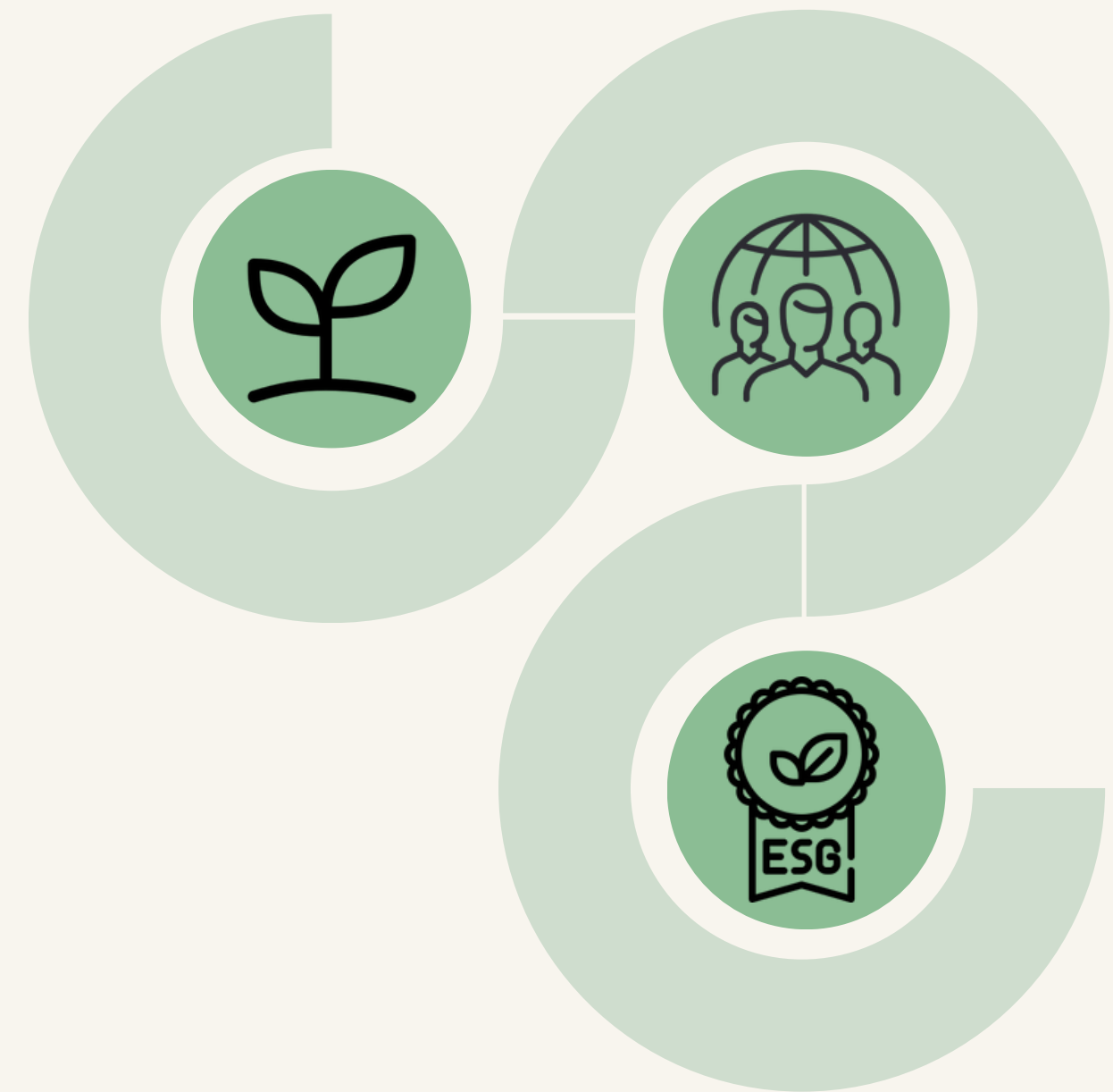
建議的回收
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目的

澳電（CEM）致力環境保護，並鼓勵供應商實踐符合環境、社會及管治（ESG）原則的可持續方案。本指引旨在協助供應商妥善處理廢料，以降低對環境及社會的影響。同時列出合規回收商名單供參考，並強調社會責任對保護社區免受有害廢料危害的重要性。我們期望透過推動可持續發展，攜手共建更健康的環境，為社區創造正面效益。



妥善處理廢料的重要性

廢料若處理不當，可能對社區造成嚴重影響。以下列出澳電常見處理物品及其潛在危害範例：

物料	潛在危害	影響範圍
鎳鎘電池 (NiCd)	有害重金屬（鎘、鎳）可能滲入土壤和水中，造成長期健康風險	威脅公眾健康，特別是對兒童和高風險族群影響更大
六氟化硫(SF6氣體)	強效溫室氣體強，其全球暖化潛勢 (GWP) 在 100 年內比二氧化碳高 23,500 倍	惡化空氣品質，加劇全球暖化，影響下一代
廢油	污染水源，危害水生生物，並有火災隱患及土壤污染風險	違反環保法規，可能面臨罰款和商譽損失
印刷電路板 (PCBs)	含鉛、汞和溴化阻燃劑，對人類及野生動物具有毒性	污染飲用水和農地，導致慢性健康問題

以下是建議合作的回收供應商名單：

澳電（CEM）與多家回收供應商合作以符合永續發展要求。供應商可參考這些合作廠商，也可自行選擇符合所有規範標準的合格回收供應商。

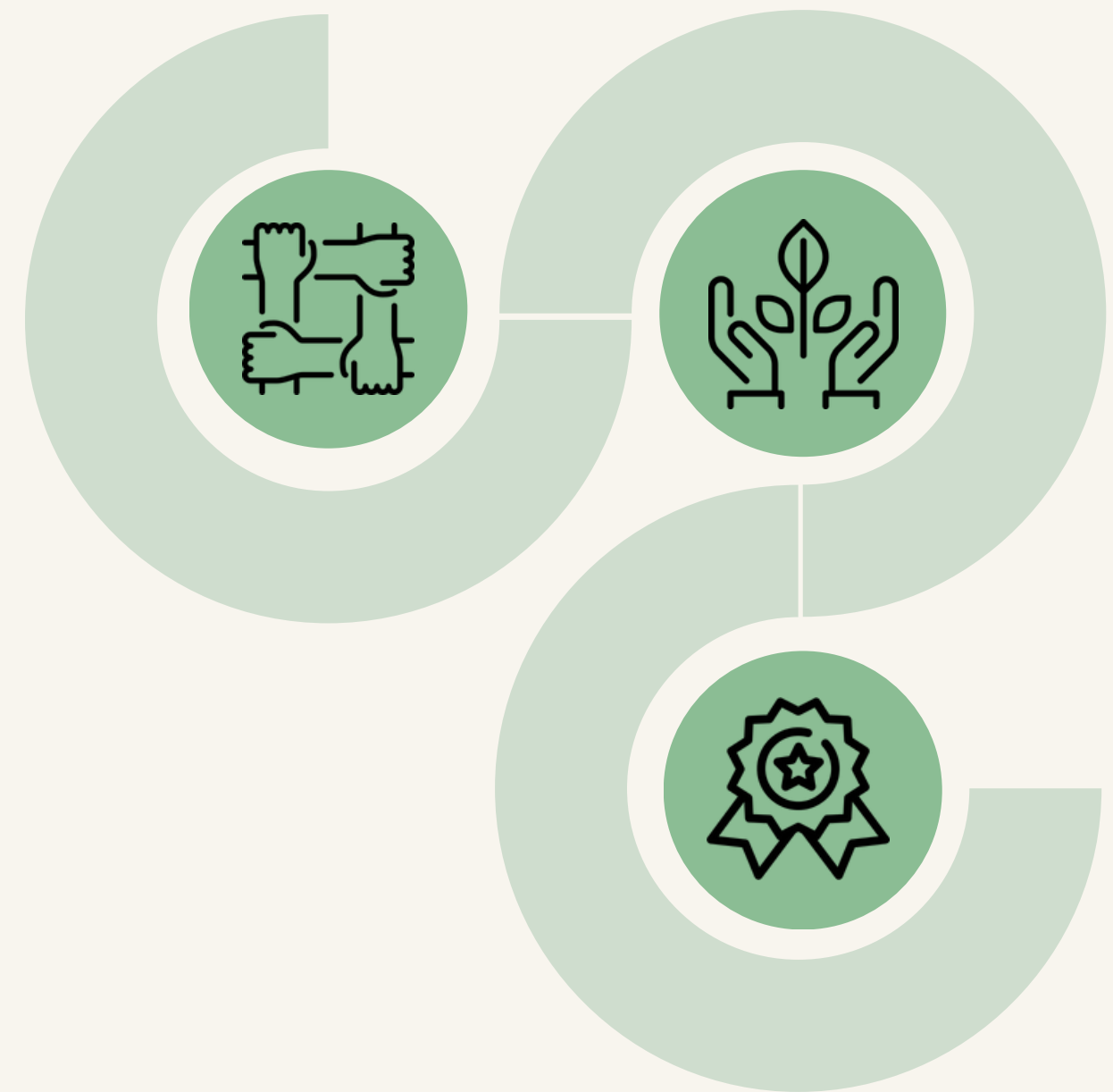
名稱	專項處理	認證資格	聯絡方式
駿華環保有限公司	六氟化硫(SF6氣體)	不適用	電郵: junhualtd@gmail.com 電話：853-2889 8899
均安環保工程有限公司	化學廢料，廢油	ISCC EU（永續廢油處理）	電郵： kitty@kwanon.com 電話： 853-2871 7551
科域國際有限公司	鎳鎘電池(NiCd)，六氟化硫(SF6氣體)，印刷電路板 (PCBs)	R2認證（責任制回收）	電郵： info@zxv.mo 電話：853-2850 2635

備註：本表按字母順序列出部分合作回收商供參考

社會責任承諾

遵循本指引，供應商將能共同促成以下效益：

-  **社區更安全：**降低接觸有毒物質的風險
-  **環境更潔淨：**減少污染，維護生態系統健康
-  **永續聲譽：**達成ESG目標，吸引重視行為守則的客戶





**如有任何疑問，歡迎聯絡澳電
採購及總務部——供應拓展組**

電郵: procurement@cem-macau.com

GUIDELINE FOR HANDLING SCRAP MATERIALS:

**Environment, Governance
and Social Responsibility for
a Sustainable Macau**



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Objective

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**Importance of
Proper Scrap
Handling**

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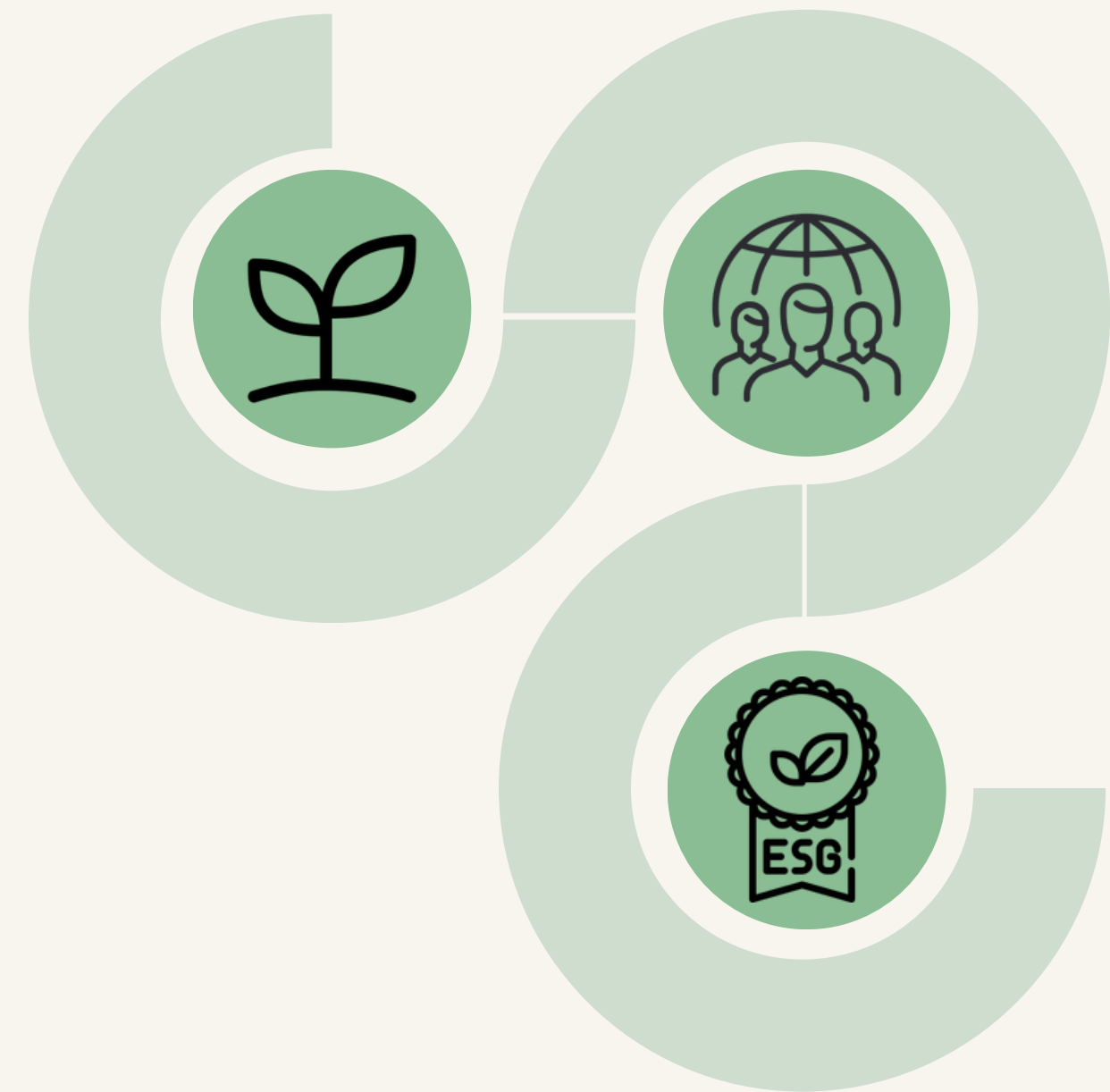
**Suggested
Recycling
Suppliers**

04

**Commitment
to Social
Responsibility**

Objective

CEM is committed to environmental protection and encourages suppliers to embrace sustainable practices in line with Environmental, Social, and Governance (ESG) principles. This guideline supports suppliers in responsibly handling scrap materials to minimize environmental and social harm, introduces approved recycling suppliers for ethical disposal, and highlights the importance of social responsibility in safeguarding communities from hazardous waste. By prioritizing sustainability, we aim to foster a healthier planet and promote positive community outcomes.



Importance of Proper Scrap Handling

Improper disposal of scrap materials can significantly impact communities.
Below are examples of common items handled by CEM and their potential harms:

Material	Potential Harm to Community	Impact
NiCd Batteries	Hazardous heavy metal (Cadmium, Nickel) may leak into soil and water, posing long-term health risks	Endangers public health, particularly for children and vulnerable groups
SF6 Gas	Potent greenhouse gas with a Global Warming Potential (GWP) 23,500 times greater than CO2 over a 100-year period	Deteriorates air quality and exacerbates global warming, impacting future generations
Waste Oil	Contaminates water sources, harms aquatic life, poses fire hazards and pollutes the soil	Violates environmental laws, leading to fines and reputational damage
Printed Circuit Boards (PCBs)	Contains lead, mercury, and brominated flame retardants, which are toxic to humans and wildlife	Pollutes drinking water and farmland, leading to chronic health issues

List of Suggested Recycling Suppliers

CEM works with various recycling suppliers to meet sustainability requirements. Suppliers may consider these options or use their own approved recycling suppliers, provided they meet all necessary compliance standards.

Name	Specialization	Certifications	Contact Information
Chun Wa Environmental Protection	SF6 Gas	N/A	Email: junhualtd@gmail.com Phone: 853-2889 8899
Kwan On Environmental Engineering	Chemicals, Waste Oil	ISCC EU (Sustainable Waste Oil Processing)	Email: kitty@kwanon.com Phone: 853-2871 7551
Vannex International Limited	NiCd batteries, SF6 Gas, PCBs	R2 (Responsible Recycling)	Email: info@zxv.mo Phone: 853-2850 2635

Remarks: the table above lists examples of recycling suppliers in alphabetical order

Commitment to Social Responsibility

By adhering to this guideline, suppliers contribute to:



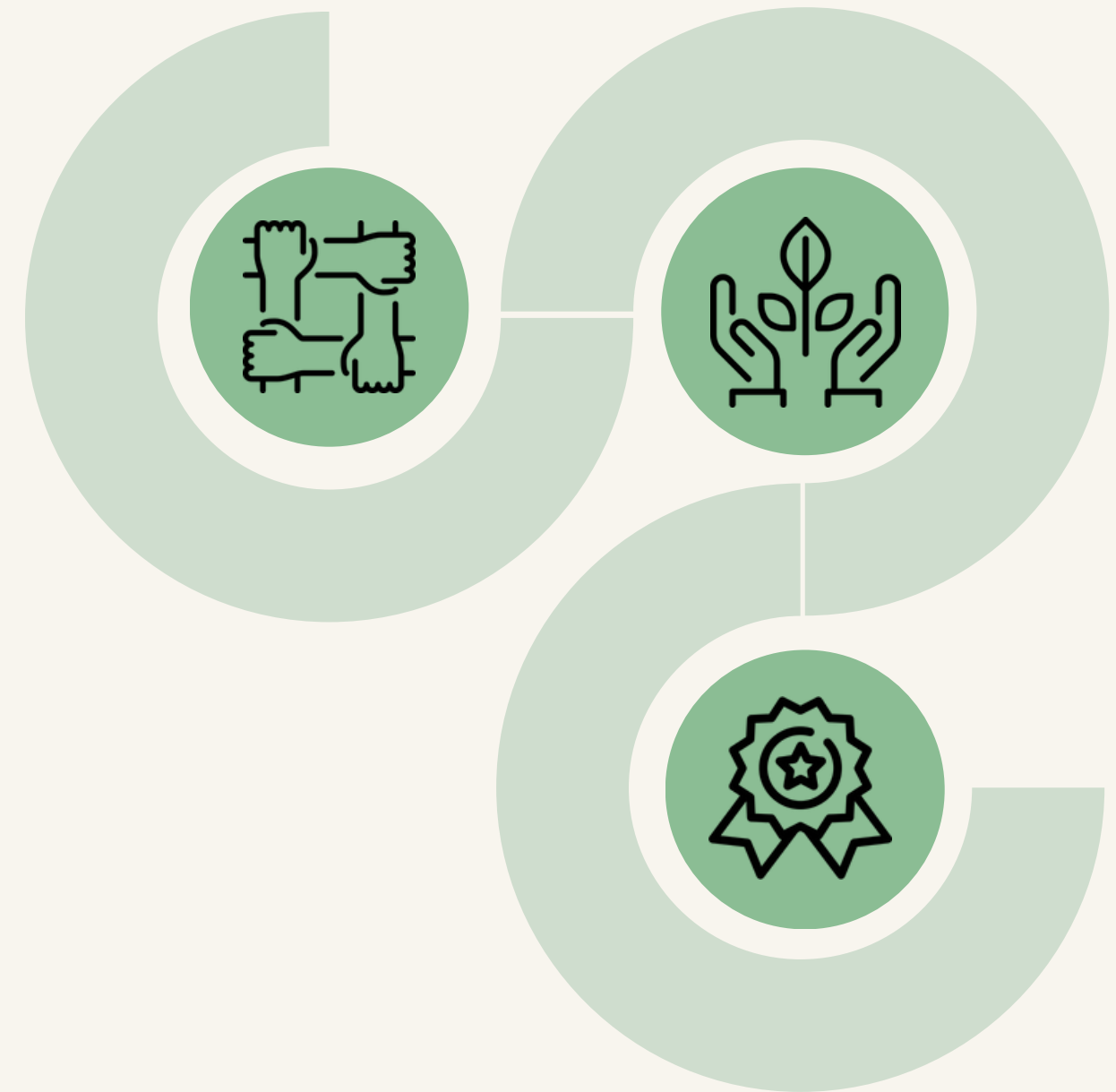
Safer Communities: Reduced exposure to toxic materials



Cleaner Environment: Decreased pollution and healthier ecosystems



Sustainable Reputation: Meeting ESG goals and attracting ethically-minded clients





For any questions, please contact CEM Procurement and Logistics Department - Sourcing & Supplier Development Team

Email: procurement@cem-macau.com