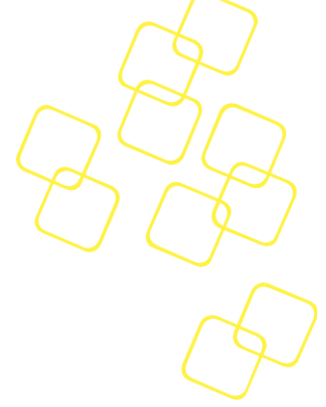




# 研華全球產品回收指南

## 目的:

為落實循環經濟與企業永續發展目標，研華建立全球產品回收機制，確保廢棄電子電氣設備（WEEE）能夠以合規、安全且環境友善的方式進行回收、再利用與處理。

本指南旨在提供各國據點、客戶及利害關係人清楚的產品回收流程、責任分工與執行方式，並作為對外揭露之依據。

## 適用範圍:

- 研華全球銷售之產品（含工業電腦、嵌入式系統、顯示器設備、監控設備等）
- 所有營運據點（含台灣及各區域事業單位）
- 企業客戶（B2B）

## 回收策略與原則:

### 1. 法規遵循（Regulatory Compliance）

研華依據各國法規建立回收機制，包括但不限於：

歐盟 WEEE 指令；美國各州電子廢棄物法規（如加州）；日本家電及電子廢棄物管理  
其他地區在地回收法規等

### 2. 延伸生產者責任（EPR）

研華承擔產品全生命週期責任，確保廢棄物妥善處理，透過產品回收降低產品廢棄處理對環境的影響。

### 3. 資源循環（Circular Economy）

優先推動以下處理方式：以促進電子產品的再利用與循環。

再使用，材料回收，再製造

### 4. 安全與環境管理

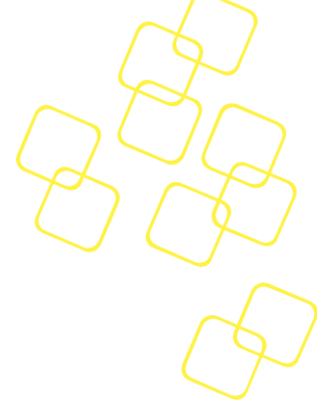
確保所有回收作業符合環境、健康與安全（EHS）標準。

## 全球回收模式:

研華採用「區域化管理 + 在地執行」模式：

### 1. 台灣

- 建立管理制度與揭露架構
- 彙整全球回收數據



## 2. 區域事業單位 ( RBU )

- 依當地法規建立回收機制
- 管理在地回收合作夥伴
- 回報年度回收數據

## 3. 授權回收商 ( Recyclers )

- 委託具備合法資格及相關許可之電子廢棄物回收商，並依雙方合作契約及適用法規執行
- 提供回收、拆解與資源化服務

## 產品回收流程

### 1. 客戶申請回收

- 客戶提出回收需求 ( 透過業務或服務窗口 )
- 研華評估產品類型與所在地法規
- 安排回收方式：客戶寄回指定據點、指定回收商、到場收取...等
- 回收產品進入處理流程：功能檢測 ( 可再利用 )；拆解分類；材料回收

### 2. 法規指定回收 ( 如歐洲 )

- 依當地法規設立回收據點或加入回收系統
- 客戶可將產品送至指定回收點

## 各地區回收機制

### 1. 台灣

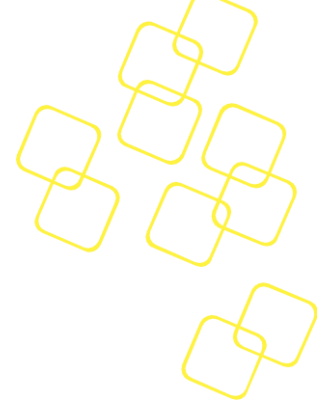
- 透過 RMA 系統進行產品回收管理
- 委託當地政府合法回收商處理

### 2. 中國

- 透過 RMA 系統進行產品回收管理
- 委託當地政府合法回收商處理

### 3. 歐洲

- 符合 WEEE 指令要求
- 提供回收據點資訊(請見附錄說明)
- 委託具備合法資格及相關許可之電子廢棄物回收商(Go4Recycling GmbH.)，並依雙



方合作契約及適用法規處理電子廢棄物

- 相關連結：<https://page.advantech.com/esg-WEEE-advantech-europe>
- 透過 RMA 系統進行產品回收管理

#### 4. 美國

- 依各州法規執行 ( 如加州 )
- 透過獲得美國加州批准的合作回收商  
或客戶付費回收機制
- 透過 RMA 系統進行產品回收管理

#### 5. 日本

- 委託當地政府合法回收商處理
- 依企業廢棄物管理制度執行

#### 6. 韓國

- 委託當地政府合法回收商處理
- 依國家企業廢棄物管理制度執行，依照銷售至當地產品申報繳交費用  
(韓國: Eco-Assurance System (Ministry of Climate, Energy and Environment))

#### 6. 印度

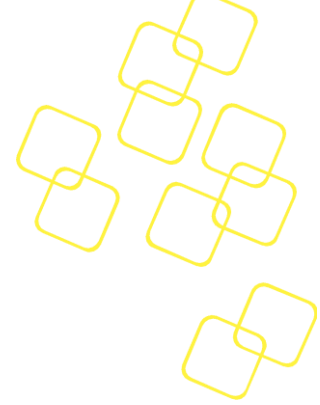
- 相關連結：<https://www.advantech.com/hi-in/legal/e-waste>

#### 7. 其他地區

- 依當地法規與市場條件建立回收方式

### 回收數據管理

- 全球銷售產品重量(噸)
- 實際回收百分比(%)  
[參考《2022 年及 2024 年全球電子廢棄物監測報告》( Global E-waste Monitor ) 相關資料，並建立方法學計算。]
- 綠色設計產品可回收百分比(%)  
[參考國際環境工具及研究文獻,設定 WEEE 回收因子,並建立方法學計算。]
- 內部 RMA 收取客戶廢棄的產品重量(噸)



## 未來目標與量化指標

- 研華將持續優化全球產品回收管理機制：
  - 擴大全球回收覆蓋率
  - 提升全球產品回收量 (噸)
  - 建立透明且可追溯的回收數據管理與揭露機制

### ■ 量化指標

| 全球實際產品回收占比 (%) | 2025 | 2026 Target | 2027 Target |
|----------------|------|-------------|-------------|
|                | 15.8 | 16          | 16.2        |

## 附錄:

- 歐洲廢棄物各國收集據點請參考[歐洲廢棄電子電氣設備指令 WEEE 網站](#)  
請注意，每家回收商在其各自國家/地區可能運營多個站點。如有任何問題或需要協調，請聯絡研華歐洲有限公司 (Advantech Europe B.V.) 或我們的簽約回收合作夥伴 Go4Recycling GmbH。
- 除歐洲地區依 WEEE 規範辦理廢棄電子產品回收外，研華 (Advantech) 全球其他地區之廢棄物及廢棄電子產品回收處理，主要由各地研華分公司提供協助。客戶如有廢棄物回收、設備報廢、回收流程或相關報價諮詢需求，可透過研華全球客戶服務窗口提出申請與辦理。

全球客戶服務聯絡窗口：

[Advantech Contact Us](#)

本指南依各國法規與實際營運狀況進行調整，研華保留隨時更新內容之權利



# Advantech Global Product Recycling Guideline

## **Purpose**

To support the principles of the circular economy and corporate sustainability, Advantech has established a global product recycling mechanism to ensure that Waste Electrical and Electronic Equipment (WEEE) is collected, reused, recycled, and treated in a compliant, safe, and environmentally responsible manner.

This guideline provides clear recycling procedures, responsibilities, and implementation methods for Advantech's global operations, customers, and stakeholders, and serves as the basis for external disclosure.

## **Scope**

- Products sold globally by Advantech, including industrial computers, embedded systems, display devices, surveillance equipment, and related products.
- All operational sites, including Taiwan headquarters and regional business units.
- Business customers (B2B).

## **Recycling Strategy and Principles**

### 1. Regulatory Compliance

Advantech establishes recycling mechanisms in accordance with applicable regulations in each region, including but not limited to:

- European Union WEEE Directive
- U.S. state electronic waste regulations (e.g., California)
- Japan's home appliance and electronic waste management regulations
- Other local recycling regulations worldwide

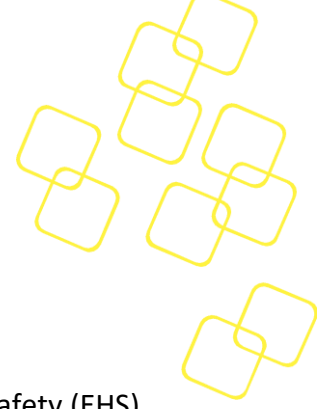
### 2. Extended Producer Responsibility (EPR)

Advantech assumes responsibility throughout the product life cycle and ensures proper treatment of end-of-life products. Through product recycling programs, Advantech aims to reduce the environmental impact associated with product disposal.

### 3. Circular Economy

Advantech prioritizes the following treatment methods to promote product reuse and resource circulation:

- Reuse
- Material Recycling
- Remanufacturing



#### 4. Safety and Environmental Management

All recycling activities shall comply with applicable Environmental, Health, and Safety (EHS) requirements and standards.

### **Global Recycling Model**

Advantech adopts a “Regional Management with Local Execution” approach.

#### 1. Taiwan

- Develop management systems and disclosure frameworks.
- Consolidate global recycling data.

#### 2. Regional Business Units (RBUs)

- Establish recycling mechanisms in compliance with local regulations.
- Manage local recycling partners.
- Report annual recycling data.

#### 3. Authorized Recyclers

- Advantech commissions qualified and duly licensed electronic waste recyclers to manage the collection and treatment of e-waste in accordance with contractual agreements and applicable regulations.
- Provide collection, dismantling, treatment, and material recovery services.

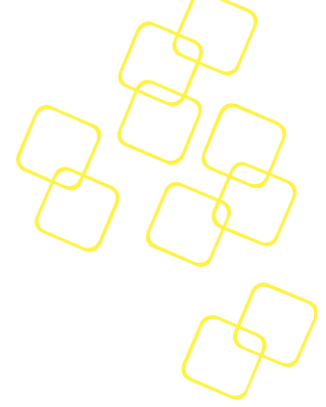
### **Product Recycling Process**

#### 1. Customer-Initiated Recycling

- Customers submit recycling requests through sales representatives or service channels.
- Advantech evaluates product type and applicable local regulations.
- Appropriate recycling arrangements are made, such as:
  - Return to designated Advantech locations
  - Delivery to designated recyclers
  - On-site collection services
- Returned products enter the recycling process, including:
  - Functional assessment for potential reuse
  - Dismantling and material segregation
  - Material recovery and recycling

#### 2. Regulatory-Mandated Recycling Programs (e.g., Europe)

- Establish collection points or participate in approved recycling systems as required by local regulations.
- Customers may return products to designated collection points.



## **Regional Recycling Programs**

### 1. Taiwan

- Product recycling managed through the RMA system.
- Commissions government-authorized local recyclers to handle electronic waste.

### 2. China

- Product recycling managed through the RMA system.
- Commissions government-authorized local recyclers to handle electronic waste.

### 3. Europe

- Complies with WEEE Directive requirements.
- Recycling collection point information is provided (see Appendix).
- Commissions a qualified and duly licensed electronic waste recycler (Go4Recycling GmbH) to manage electronic waste in accordance with contractual agreements and applicable regulations.
- Related website: <https://page.advantech.com/esg-WEEE-advantech-europe>
- Product recycling managed through the RMA system.

### 4. United States

- Recycling activities conducted in accordance with state regulations (e.g., California).
- Through California-approved recycling partners or customer-paid recycling programs.
- Product recycling managed through the RMA system.

### 5. Japan

- Commissions government-authorized local recyclers to handle electronic waste.
- Managed in accordance with industrial waste management regulations.

### 6. South Korea

- Commissions government-authorized local recyclers to handle electronic waste.
- Managed in accordance with national industrial waste management requirements and recycling fee obligations associated with products sold in Korea.

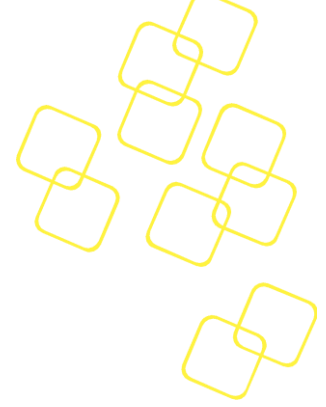
(Korea: Eco-Assurance System, Ministry of Climate, Energy and Environment)

### 7. India

- Related website: <https://www.advantech.com/hi-in/legal/e-waste>

### 8. Other Regions

- Recycling mechanisms are established based on local regulations and market conditions.



## **Recycling Data Management**

Advantech tracks and manages the following indicators:

- Total weight of products sold globally (tons)
- Actual recycling rate (%)

*[Calculated based on Advantech's methodology, referencing data from the Global E-waste Monitor 2022 and 2024 reports.]*

- Recyclability rate of green-design products (%)

*[Calculated using Advantech's methodology based on internationally recognized environmental assessment tools and research literature, including WEEE recycling factors.]*

- Weight of end-of-life products collected through the internal RMA system (tons)

## **Future Targets and Quantitative Targets**

- Advantech will continue to enhance its global product take-back management program by:
  - Expanding global product take-back coverage.
  - Increasing the total volume of products collected (tons).
  - Establishing a transparent and traceable product take-back data management and disclosure mechanism.

### ■ Quantitative Targets

| Global Product Collection Rate (%) | 2025 | 2026 Target | 2027 Target |
|------------------------------------|------|-------------|-------------|
|                                    | 15.8 | 16          | 16.2        |

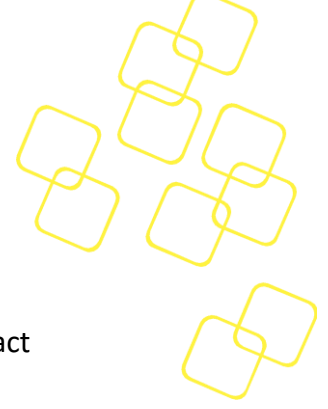
## **Appendix**

- Europe Waste material collection center/point Collection Facilities (Collection Point /Centers, Warehouse) please refer to [EU WEEE website](#).  
Please note that each recycler may operate multiple sites within their respective countries. For any inquiries or coordination, please contact Advantech Europe B.V. or our contracted recycling partner Go4Recycling GmbH.
- With the exception of Europe, where waste electrical and electronic equipment (WEEE) is managed in compliance with applicable WEEE regulations, the collection and recycling of waste and end-of-life electronic products in other regions are coordinated by Advantech's local subsidiaries. Customers seeking product take-back services,





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equipment disposal, recycling information, or related quotations may contact Advantech through its global customer service channels.

Global Customer Service Contact: [Advantech Contact Us](#)

Note. This guideline may be updated from time to time to reflect changes in applicable regulations and operational requirements. Advantech reserves the right to revise and update the contents of this guideline at any time.