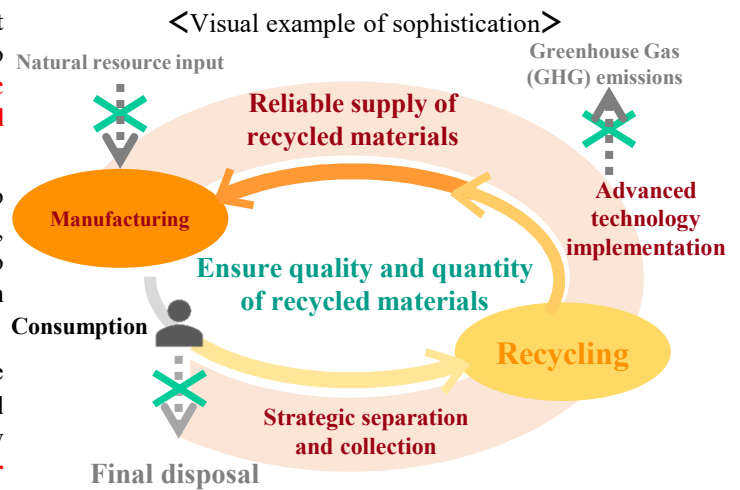


# Outline of the Act Concerning Sophistication of Recycling Business, etc. to Promote Resource Circulation

In order to promote resource circulation efforts such as **decarbonization and securing quality and quantity of recycled resources in an integrated manner**, take measures such as **formulating a basic policy, reporting and publicizing** the status of implementation of recycling by **industrial waste disposers with particularly large disposal volumes**, and **establishing an accreditation system** related to sophistication of recycling business, etc.

## Background

- Resource circulation can contribute not only to **net-zero emissions** (which can **contribute to reductions** in sectors that account for **about 36%** of Japan's total emissions), but also towards solving social issues such as **national economic security** (ensuring a stable supply of resources) and **regional revitalization**, and is necessary to be **realized in all fields**.
- There is a growing trend in the world, especially in Europe, to seek the use of recycled materials, and if we delay our response, we may miss a growth opportunity. It is important for Japan to **strengthen industrial competitiveness** in resource circulation by **ensuring the quality and quantity of recycled materials**.
- Under these kinds of circumstances, in order to promote resource recycling and **ensure that manufacturers are reliably supplied with the recycled materials of the quality and quantity required by them**, **enable sophistication on the efforts for resource-circulation** with the aim at **developing the resource-circulation industry**.



## Main Measures

### Establishment of Basic Policy

- In order to promote the sophistication of the recycling business, etc., the Minister of the Environment is to **establish a basic policy** and publicize it, since it is necessary for the national government to provide a basic direction and further advancement of integrated efforts.

### Promotion of Recycling (Raising the Level)

- Establishment and publication of the criteria concerning the promotion of sophistication of recycling business, etc.
  - Reporting and publication of the status of implementation of recycling by industrial waste disposers with particularly large disposal volumes
- ⇒ **Raising the overall level of sophistication of recycling**

### Promotion of Sophistication of Recycling Business, etc. (increase)

- Establish a system in which the national government will conduct collective authorization** for sophistication of the recycling business, etc., have measures taken to ensure that there are no obstacles to the preservation of the living environment, and establish **special exceptions to the procedures for various types of permits**, including permits, etc. for waste disposal businesses under the Waste Management Act.

#### \*Type of certification (visual example)

##### <(1) Sophisticated business forms>

- Promote **wide-area sorted collection and recycling projects** in order to secure recycled materials of the quality and quantity required by manufacturers.



Example: Horizontal recycling of PET bottles

Image source: PET bottle recycling annual report 2023 (Council for PET Bottle Recycling)

##### <(2) Sophistication of Separation and Collection Technology>

- Promoting the **installation of facilities related to sophistication of separation and collection technologies**



Example: Complete recycling of glass and metals      Example: Recycling of used disposable diapers

Image source: Guidelines for the promotion of recycling of solar power generation equipment, etc.  
Guidelines concerning the recycling of used disposable paper diapers, etc.

##### <(3) Sophistication of Recycling Process>

- Promoting the **introduction of high-efficiency facilities, etc.**, to increase the effectiveness of greenhouse gas reduction



Example: High-efficiency resource circulation utilizing AI

Image source: Collection of case studies in the introduction of AI, IoT, etc. in industrial waste handling

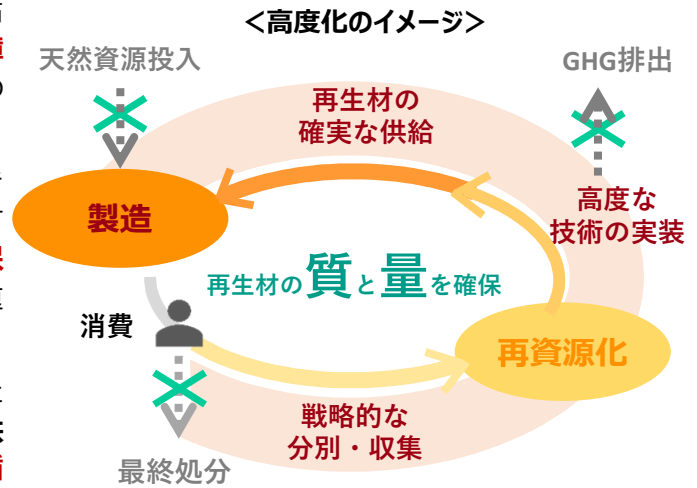
## Promotion of Decarbonization, Enhancement of Industrial Competitiveness, Regional Revitalization, Contribution to National Economic Security

# 資源循環の促進のための再資源化事業等の高度化に関する法律の概要

脱炭素化と再生資源の質と量の確保等の資源循環の取組を一体的に促進するため、基本方針の策定、特に処分量の多い産業廃棄物処分業者の再資源化の実施の状況の報告及び公表、再資源化事業等の高度化に係る認定制度の創設等の措置を講ずる。

## ■ 背景

- 資源循環は、**ネットゼロ**（我が国排出量の約36%を占める分野の削減に貢献可能）のみならず、**経済安全保障**（資源の安定供給の確保）や**地方創生**など社会的課題の解決に貢献でき、あらゆる分野で実現する必要。
- 欧州を中心に世界では、再生材の利用を求める動きが拡大しており、対応が遅れば成長機会を逸失する可能性。我が国としても、**再生材の質と量の確保**を通じて**資源循環の産業競争力を強化**することが重要。
- このような状況を踏まえ、資源循環を進めていくため、**製造側が必要とする質と量の再生材が確実に供給されるよう、再資源化の取組を高度化し、資源循環産業の発展を目指す。**



## ■ 主な措置事項

### 基本方針の策定

- ・ 再資源化事業等の高度化を促進するため、国として基本的な方向性を示し、一体的に取組を進めていく必要があることから、環境大臣は、**基本方針を策定し公表**するものとする。

### 再資源化の促進（底上げ）

- ・ 再資源化事業等の高度化の促進に関する**判断基準の策定・公表**
  - ・ **特に処分量の多い産業廃棄物処分業者の再資源化の実施状況の報告・公表**
- ⇒ 再資源化の**高度化に向けた全体の底上げ**

### 再資源化事業等の高度化の促進（引き上げ）

- ・ 再資源化事業等の高度化に係る**国が一括して認定を行う制度を創設**し、生活環境の保全に支障がないよう措置を講じさせた上で、**廃棄物処理法の廃棄物処分の許可等の各種許可のの特例**を設ける。

#### ※認定の類型（イメージ）

#### <①事業形態の高度化>

- 製造側が必要とする**質・量の再生材を確保**するため、**広域的な分別収集・再資源化の事業**を促進



例：ペットボトルの水平リサイクル

画像出典：PETボトルリサイクル年次報告書2023 (PETボトルリサイクル推進協議会)

#### <②分離・回収技術の高度化>

- **分離・回収技術の高度化に係る施設設置**を促進



例：ガラスと金属の完全リサイクル



例：使用済み紙おむつリサイクル

画像出典：太陽光発電設備のリサイクル等の推進に向けたガイドライン 使用済み紙おむつの再生利用等に関するガイドライン

#### <③再資源化工程の高度化>

- 温室効果ガス削減効果を高めるための**高効率な設備導入等**を促進



例：AIを活用した高効率資源循環

画像出典：産業廃棄物処理におけるAI・IoT等の導入事例集

脱炭素化の推進、産業競争力の強化、地方創生、経済安全保障への貢献