

## Eco Mark Product Category No.136

# “Reusable Products Version 1.4” Certification Criteria

—Applicable Scope—

- A. Reused Filtering Materials for Replacement-Style Particulate Respirator (Individual Product Criteria-1)
- B. Air Cleaner Elements for medium-size and large-size automobiles (Individual Product Criteria-2)
- C. Electric Meter-Electric Sub meter (Individual Product Criteria-3)

Established: March 20, 2006  
Term of validity: August 31, 2016

Japan Environment Association  
Eco Mark Office

NOTE: This document is a translation of the criteria written in Japanese. In the event of dispute, the original document should be taken as authoritative.

## Eco Mark Product Category No.136

“Reusable Products Version 1.4”  
 Certification Criteria

C. Electric Meter “Electric Sub meter” (Individual Product  
 Criteria-3)

Japan Environment Association  
 Eco Mark Office

**Preface (Structure of Certification Criteria)**

This Product Category consists of “Basic Criteria” and “Individual Product Criteria” (Figure 1). The “Basic Criteria” includes all items of Certification Criteria to cover all applicable products for this Product Category. Prepared for each applicable product, on the other hand, the “Individual Product Criteria” consists of the two parts; excerpt part from the “Basic Criteria” to include essential items for certification of specific product, and additional part in the “Individual Product Criteria” in consideration for characteristics of each product.

In application, the applicant shall refer only to the “Individual Product Criteria” of the applicable product.

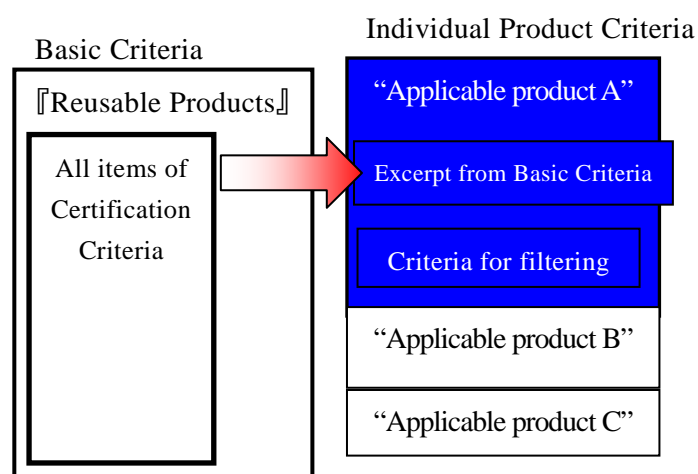


Figure 1 Structure of Certification Criteria

**1. Purpose of Establishing Certification Criteria**

The aim of the Basic Law for Establishing the Recycling-Based Society (Law No.110, June 2, 2000) is to establish the recycling-based society in which consumption of natural resources is controlled and environmental burden is reduced as much as possible, through the ways including control of products, etc. not to become waste and

the promotion of cyclical use and proper treatment.

In addition, the law prescribes the priority of waste treatment as follows: 1. Reduce (control not to generate waste); 2. Reuse; 3. Recycling; 4. Heat recovery; 5. Proper treatment.

This Product Category aims to contribute to establishing the recycling-based society by certifying the reused products which could reduce environmental burden through their life-cycle and the system which provides the aforementioned products as Eco Mark Products.

## 2. Applicable Scope

The followings show the general requirements for applicable scope and concrete applicable products of this Product Category.

<General requirement>

The applicable products cover not only the products that possess large possibility to reduce environmental burden throughout lifecycle by reusing the products, but also the system which provide the above-mentioned products (including new products on the premise of reuse through the system). However, the reusable products which are generally traded as valuable things after disposal (example; used book and used car) are excluded.

Regarding requirements are as follows.

- 1) The provided products/functions shall have the functions equivalent of new products.
- 2) The products shall be designed for the purpose of being reused on manufacturing stage.
- 3) The system of collection/reuse shall be established.

Basically, the products which meet the requirements on the above are applicable for this Product Category. In other words, in Figure 2, the “Reusable” products within the outside frame and the “Reused” products within the inside frame are in the applicable scope.

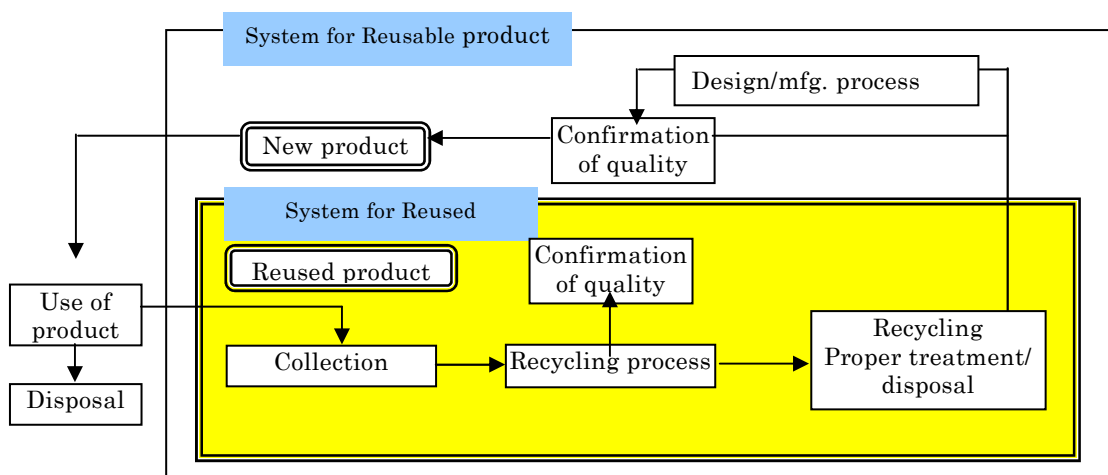


Figure 2 Applicable Scope of this Product Category

<Specific Target Product> Electric Meter “Electric Sub meter”

Among the Alternating-Current Watt-Hour Meters defined in JIS C1211, the “Electric Sub meter” handled in this product category refers to electric meters (single-phase two-wire system, single-phase three-wire system, three-phase three-wire system, and three-phase four-wire system) to be used to distribute electricity charges collectively paid to the power company in a building for rent, apartment house, etc. according to usage of power of each room, and targets reused products.

### 3. Terminology

Reused parts	The parts which are taken out from the used products, not given forming process, given proper treatment such as cleansing/grinding according to needs, and utilized again as parts.
Recycling process	It refers to the whole process to reuse the used products including cleansing, disassembly, light grinding, part replacement, adjustment, confirming quality and shipment.
Prescription constituents	Intentionally-added material components to give certain characteristics to the products. Impurities that are technically unavoidable in the manufacturing process are not included.
Reuse	Used products are collected and given proper treatment to utilize again as products, or reusable parts of the product are utilized again.
Reusable product	Preliminarily-designed products to be reused through recycling process. Products with large possibility to reduce environmental burden throughout lifecycle by reusing the products including secondhand products (including new products premised on being reused through the system). However, the products which have already managed by market mechanism are excluded. This category includes products that were used after passing a test for certification based on the Measurement Act or voluntary test for certification even though they were not designed beforehand to be reused, and then <b>became secondhand</b> due to expiration of a period of validity of the test for certification and were <b>collected from users</b> and then reused.

Figure3. omitted

## 4. Certification Criteria and Certification Procedure

### 4-1. Environmental Criteria and Certification Procedure

(1) The electric sub meter to be a target of reuse **shall be those that became secondhand** due to expiration of a period of validity of a test for certification, etc. and then **were collected from users**. In addition, an operator who conducts reuse

shall have filed the business to the Minister of Economy, Trade and Industry, based on the Measurement Act.

[Certification Procedure]

It shall be declared by describing in the Attached certificate that the electric sub meters to be a target of reuse are those that **became secondhand due to expiration of a period of validity of a test for certification, etc. and then were collected from users.** In addition, a document describing the acceptance conditions (product name, manufacturer name, broken condition, year of manufacture, etc.) for the secondhand product that will be a target of reuse shall be submitted. In addition, a copy of submission to the Ministry of Economy, Trade and Industry or a list of filed manufacturers/filed repair traders of the Resources and Energy Agency of the Ministry of Economy, Trade and Industry shall be submitted.

- (2) In order to collect and reuse the used products, the system to conduct cleansing, part replacement, adjustment and others and ship the reusable products shall be established.

[Certification Procedure]

The explanatory document shall be submitted including the followings;

- 1) Collection route of used products
- 2) Explanation of total recycling process
- 3) Actual record of total shipment, shipment of and collected amount of reused products of the applied product for the last one year.

- (3) For product required part replacement during recycling process, the proportion of replaced parts' weight to total weight of product per unit when maximum number of parts were replaced (theoretical value) shall satisfy the value of each product in Table 1

[Certification Procedure]

For the product with part replacement during recycling process, show the weight proportion of reused parts (%) to total weight of product (100%) in case the number of replaced parts becomes maximum in theory.

**Table 1 Numeric Values Specified in 4-1-1.(3)**

Target Product	Ratio of Reused Parts to Weight
Electric Meter “Electric Sub meter”	90% or higher

- (4) In the cleaning process, specific chlorofluorocarbon (5 CFC types), other CRC, carbon tetrachloride, trichloroethane and alternative for chlorofluorocarbon (referring to HCFC herein) shall not be used. In addition, if an organic solvent is used for cleaning agent, recovery action shall have been taken.

[Certification Procedure]

Compliance with this item shall be described in the Attached Certificate. If an organic solvent is used, a recovery method shall be explained.

- (5) In reworking process, any part that became unwanted due to replacement, etc. shall be recycled appropriately. Any part that cannot be recycled shall be treated/disposed of in an appropriate manner.

[Certification Procedure]

A reference material describing a recycling method, recycling ratio, and a treatment/disposal method of a part that cannot be recycled shall be submitted.

- (6) In manufacturing the applied product, related environmental laws and regulations and pollution control agreement (hereinafter referred to as the "Environmental Laws, etc.") must be followed with respect to air pollution, water contamination, noise, offensive odor, and emission of hazardous substances in the area where the plant performing the final manufacturing process is located.

In addition, the state of compliance with the Environmental Laws, etc. for the past five years from the date of application (whether there is any violation) must be reported. If there is any violation, proper remedies and preventive measures shall have been already taken, and the related Environmental Laws, etc. must thereafter be followed appropriately.

[Certification Procedure]

With respect to the compliance with the Environmental Laws, etc. in the area where the plant performing the final manufacturing process is located, a certificate issued by the representative of the business of manufacturing the applied product or the relevant plant manager (entry or attachment of a list of names of the Environmental Laws, etc.) must be submitted.

In addition, the applicants shall report whether there is any violation in the past five years, including a violation subject to administrative punishment or administrative guidance, and if there is, the following documents in a and b must be submitted:

- a. With respect to the fact of violation, guidance documents from administrative agencies (including order of correction and warning) and copies of written answers (including those reporting causes and results of correction) to such documents (clearly indicating a series of communication);
- b. Following materials (copies of recording documents, etc.) concerning the management system for compliance with the Environmental Laws, etc. in 1)-5):
  - 1) List of the Environmental Laws, etc. related to the area where the plant is located;
  - 2) Implementation system (organizational chart with roles, etc.);
  - 3) Bylaws stipulating retention of recording documents;
  - 4) Recurrence prevention measures (future preventive measures);
  - 5) State of implementation based on recurrence prevention measures (result of checking of the state of compliance, including the result of onsite inspection).

- (7) Materials of containers and packaging to be used for transporting products between users and recycling businesses shall be designed to be able to use repeatedly. However, this item is not applicable for packaging, label, etc. which are used for breakage prevention, defacement prevention, ensuring hygiene and differentiation between used products and reuse products.

## [Certification Procedure]

Written materials to confirm the materials and structures of containers and packaging used for transporting products between users and recycling businesses shall be submitted.

- (8) A name of applied product and a name of applying company (company brand name, etc. may be accepted) shall be described on a main body of the product so that users can easily see them.

## [Certification Procedure]

A photograph or written design by which content of display and display part can be checked shall be submitted.

- (9) The following items shall be clearly indicated for users on either of package of products, written documents such as instruction manuals packed with products, catalogues and website.
- Information disclosure items for actually reused products
    - a. Contact address
    - b. A method of coping (collecting) when a period of validity of a test for certification of the product has expired
    - c. To be reusable products (that shall have the effect of reducing the environmental burden.)
    - d. Actual contents of recycling process
    - e. To be passed the quality inspection in recycling process (quality certificates, etc.)

## [Certification Procedure]

Photographs and/or design drawings to show the contents and the labeled portion of indication shall be submitted.

#### 4-2. Quality Criteria and Certification Procedure

- (10) Before shipment, the product shall have undergone a test for certification based on the Measurement Act. In addition, if a third party other than the product manufacturer applies for Eco Mark, a trader that performs the reworking process for reuse shall be responsible for quality assurance or handling of claims of the reused product.

## [Certification Procedure]

A certificate showing a method of controlling quality and that the product has undergone a test for certification based on the Measurement Act before shipment shall be submitted.

In addition, if a third party performs reuse, it shall submit a document describing a method of assuring quality or handling complaints.

Established: August 20, 2006 (Version1.0)

Extension of Validity Period: April 28, 2009

Addition of applicable scope (C. Electric Meter “Electric Sub meter”): March 20, 2010  
Validity Period: August 31, 2016

The Certification Criteria for the Product Category will be revised when necessary.