

New Battery Recycling Law in Japan

Battery Association of Japan



New Battery Recycling Law

- ⌘ **Law Name:** Law for the Promotion of Effective Utilization of Resources
- ⌘ **Scope of Batteries Specified by the Law:**
All Small Secondary Batteries
(Ni-Cd, Ni-MH, Li-ion, SLA)
- ⌘ **Effective Date:** April 1, 2001



Requirements

Products specified by the law	Requirements	Battery Mftrs.	Equip. Mftrs.
Designated products for marking	· Marking on the small secondary batteries	○※1)	—
Designated products for promotion of re-use	· Marking on the appliances which are used small secondary batteries · Easily removable design	—	○
Designated product for recyclable resources	· Collection of small secondary batteries	○※2)	○
	· Recycling of small secondary batteries	○※2)	—
	· Enlightenment and providing information for collection	○	○
	· Acceptance of small secondary batteries collected by municipalities	○	—

※1) Including importers of small secondary batteries & OEM manufacturers.

※2) OEM Manufacturers are exempted from this duty.

Designated Products for Marking(1)

1. Scope of secondary batteries

- **Ni-Cd battery**
- **Ni-MH battery**
- **Secondary Lithium battery**
(Limited to Li-ion(Including Polymer battery))
- **Small Sealed Lead Acid battery**
(Battery is limited to under 234 k coulomb (equivalent to 65Ah))



Designated Products for Marking(2)

2. Designated business people for marking

(1)Manufacturers who produce the designated batteries.

*Including OEM manufacturers who order the designated batteries for their use.

(2)Importers who import and sell the designated batteries¹⁾





1)Limited to the batteries covered with the plastic materials etc.



Designated Products for Marking(3)

3. Obligation of designated business people

Designated business people are required to put on following mark and letters on the batteries.

	Ni-Cd	Ni-MH	Li-ion	SLA
Mark & Letters				
Back-G. Color	Yellow Green	Orange	Cobalt Blue	Silver (Gray)

※Background color is recommended by BAJ.

Marking Requirement for Batteries & Appliances

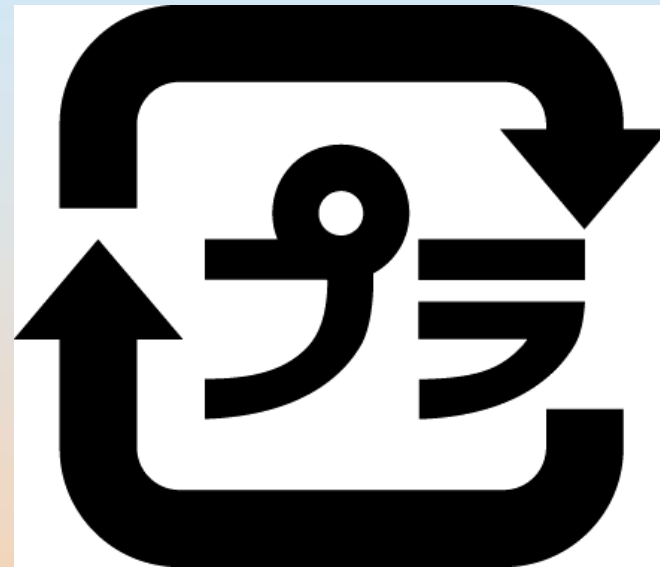
Type of Batteries	Marking			
	Battery / Appliance	Main Body	Packaging ※	Instruction Manual※
Ni-Cd Battery	Battery	○	△	△
	Appliance	◇	△	△
Ni-MH Battery	Battery	○	△	△
	Appliance	◇	△	△
Li-ion Battery	Battery	○	△	△
	Appliance	◇	△	△
SSLA Battery	Battery	○	△	△
	Appliance	◇	△	△

○ : Recycle Mark & Letters, △ : Packaging Mark, ◇ : Mark for Promotion of Recycling
 ※ Marking on the packaging material is required specific marking by the law of recycling container and packaging material effective April 1, 2001 with 2years transition time.

Required Marking for Packaging



Paper Material



Plastic Material

Designated products for promotion of reuse(1)

1. Scope of the battery powered appliances

- **28 kinds of appliances** have been specified as designated appliances for promotion of reuse.
- However, Gov't has interpreted "Power device" includes all other battery powered appliances.

2. Designated business people for promotion of reuse

Business people who manufacture the designated appliances.

- *Importers of the designated appliances are exempted.

Designated products for promotion of reuse(2)

3. Obligation of the designated business people for promotion of reuse

(1) Marking on the appliances which says secondary batteries are used.

(2) Design for easily removable of battery.

(3) Providing the information regarding above 2 items (how to remove the battery etc.)

***Memory backup batteries are exempted.**

4. Effective date

April 1, 2001 (No transition time)

Designated product for recyclable resources(1)

1. Scope of secondary batteries

- **Ni-Cd battery**
- **Ni-MH battery**
- **Secondary Lithium battery**
- **Small Sealed Lead Acid battery**

(Battery is limited to under 234 k coulomb(65Ah))

***Memory backup batteries are exempted.**

***Imported batteries w/wo appliances are in this scope.**

2. Scope of the battery powered appliances

- **29 kinds of appliances** have been specified as designated products for recyclable resources.
- **However, Gov't has interpreted "Power device" includes all other battery powered appliances.**

Designated product for recyclable resources(2)

3. Designated business people for recyclable resources

(1) Battery manufacturers

- Battery manufacturers who produce specified secondary batteries.**
- Importers who import and sell specified secondary batteries.**

(2) Appliance manufacturers

- Appliance manufacturers who produce the appliances that are used specified secondary batteries.**
- Importers who import/sell above appliances.**



Designated product for recyclable resources(3)

4. Obligation of designated business people for recyclable resources

(1) Collection method and collection activity

(Covered by battery and appliance manufacturers)

- ① Establishment of the collection scheme by single company or entity, and its announcement in the HP etc. (It is possible to entrust third party for battery collection)
- ② Announcement of the yearly collection result on the HP etc.
- ③ Execution of battery collection

Designated product for recyclable resources(4)

(2) Battery recycling target and implementation measures

(Covered by battery manufacturers)

① Battery manufacturers shall recycle the collected batteries. (It is possible to entrust third party for battery recycling.)

② Recycling target is as follows.

Ni-Cd : Over 60%

Rech.-Li : Over 30%

Ni-MH : Over 55%

SSLA : Over 50%

③ Rate calculation

$$\text{Recycle Rate(\%)} = \frac{\text{TTL Wgt. of Recycled Material}}{\text{Weight of Collected Batteries}}$$

④ Announce the situation of battery recycling(recycling rate and collected weight etc.) on the HP yearly.

Designated product for recyclable resources(5)

(3)Transfer the collected batteries

(Covered by appliance manufacturers)

①Appliance manufacturers shall transfer the own collected batteries to the battery manufacturers or importers.

It is also possible to recycle the collected batteries by themselves or entrusting to the third party.

②In case of entrusting recycle to the third party, appliance manufacturers shall keep same recycling target and implementation measures as that of battery manufacturers which is defined by law.

Designated product for recyclable resources(6)

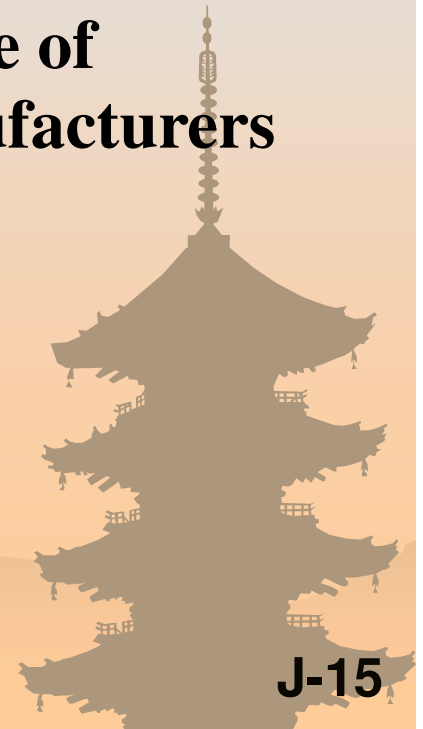
(4) Cooperation with Municipality

(Covered by battery manufacturers)

Battery manufacturers has to announce the accepting condition of the batteries which municipality is collected.

In case of municipality requesting acceptance of batteries with above condition, battery manufacturers have to accept them with free of charge.

If the batteries are segregated correctly, battery manufacturers have to accept them with free of charge.



Designated product for recyclable resources(7)

(5) Execution of Collection and recycling of batteries (Covered by battery and appliance manufacturers)

- ① To promote the separate collection and recycling of batteries, manufacturers have to provide the necessary information and enlighten consumers.
- ② Manufacturers have to comply with “the Waste Management Law” and other related regulations when they do collection and/or recycling of batteries by themselves or entrusting to third party.

Designated product for recyclable resources(8)

(6)Consideration for the Waste Management Law

(Covered by battery and appliance manufacturers)

The manufacturers could get partial exception from the Waste Management Law, when they are granted the certification of the solely or jointly performed “collection and recycling system” by the competent Ministers.

5. Effective date

April 1, 2001 (No transition time)

Sunctions

1. Disobedience of marking

**Recommendation ⇒ Publication ⇒ Order
⇒ Fine(Under 500K Yen)**

2. Disobedience of promotion of reuse

**Instruction/Advice ⇒ Recommendation ⇒
Publication ⇒ Order ⇒ Fine(Under 500K Yen)**

3. Disobedience of collection and recycling

**Instruction/Advice ⇒ Recommendation
⇒ Publication ⇒ Order
⇒ Fine(Under 500K Yen)**

Battery Collection Entity (1)

1. Name: Japan Portable Rechargeable Battery Recycling Center (JBRC) - (Established in BAJ)

2. Operation:

(1) JBRC is operated by the membership fee.

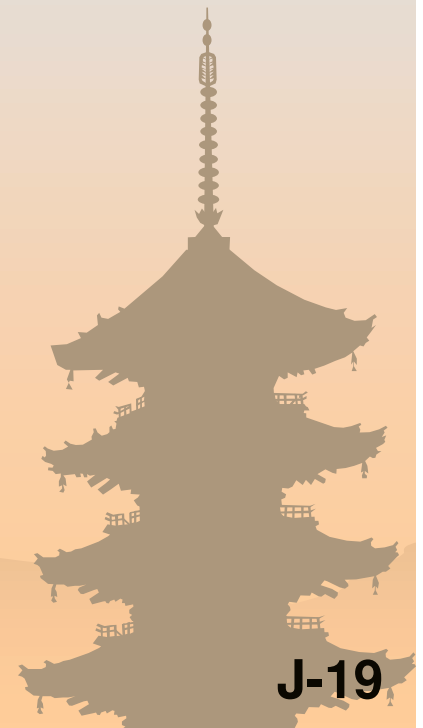
(2) JBRC will take member's duties for collection and recycling of batteries.

3. Scope of members:

- **Manufacturers and importers of specified secondary batteries**

- **Appliance Manufacturers and importers who use specified secondary batteries in their products**

***99 companies have joined JBRC (as of 5/15)**



Battery Collection Entity (2)

4. Membership Fee:

- Membership fee shall be collected from the member based on the weight of the batteries sold into the domestic market.
- FY2001 Fee shall be paid based on following table.

(Unit:JPY/kg)

	Ni-Cd	Ni-MH	Li-ion		SSLA
			Co based	Mn based	Consumer use
Battery Mftrs.	45.0	8.9	14.0	31.4	32.7
Appliance Mftrs.	33.0	14.6	23.1	23.1	22.3

- Membership fee shall be re-calculated each year by JBRC with considering every factors.