



Tokyo 2020 Olympic Medals project

- Mining urban metals to make Olympic medals -

June 2017

Ministry of the Environment, Government of Japan

Tokyo 2020 Olympic Medals Project

- The Tokyo Organising Committee of the Olympic and Paralympic Games has launched the **“Tokyo 2020 medal project”** to make the medals for the games from **recycled metals salvaged from small waste electronic equipment (SWEEE)**, including discarded mobile phones.
- Our goal is to **promote sustainability** at the Olympic and Paralympic Games by and procuring recycled metals from across Japan as **a Symbol of our participation** in the Tokyo 2020 Olympic and Paralympic Games.
- The Organising Committee has been considering proposals for projects since last November. This February, the Organising Committee selected the proposal by **NTT DOCOMO, INC.** and The **Japan Environmental Sanitation Center, a general incorporated association**※. They will work closely together with the Organising Committee.

《Main Evaluation Criteria》

- ① Measures to **procure materials** as scheduled
- ② Concrete measures to **publicly support** the Tokyo 2020 Olympic and Paralympic Games as well as any partners in this project
- ③ Promotion of the **recycling movement**, including **traceability**, as **a post-Games Legacy**

※ The Japan Environmental Sanitation Center collaborates with nationwide certified operators, mainly **Suzutoku HD Co., Ltd., Renet Japan Co., Ltd., Re-Tem Co., Ltd.**, to salvage SWEEE under the SWEEE recycling law.

※ As of April 1st 2017, collection has started in 660 local governments (43 prefectures and 603 municipalities) and 46 certified operators.

Details regarding medals made from recycled metals

Minimum necessary amounts of materials to produce medals for the Tokyo 2020 Olympic and Paralympic Games

Type of Medal	Number of medals to be produced	Gold	Silver	Copper
Gold Medal	1,666	10kg	616kg	40kg
Silver Medal	1,666	-	616kg	50kg
Bronze Medal	1,666	-	-	646kg
Total amounts of metal	-	10kg	1,233kg	736kg
Reference: Necessary quantity considering yield rate	-	Around 40kg	Around 4,900kg	Around 3,000kg

- ※ We expect the total number of medals for the Tokyo Olympic and Paralympic Games to be 5,000.
- ※ Our estimations of weights and components of medals (400g per a medal) are based on the amounts used for the London 2012 Olympic and Paralympic Games. (The Rio de Janeiro 2016 Olympic and Paralympic Games used 500g per medal.)
- ※ We expect the yield rate at the time of manufacturing to be around quadruple that of previous games.

Board of directors of the Tokyo Organising Committee of the Olympic and Paralympic Games, 09 November 2016.

Amounts of gold, silver, and copper materials recycled by certified SWEEE recycling operators in 2015

	Gold	Silver	Copper
Total amounts of metals	Around 214kg	Around 2,563kg	Around 1,469,000kg

Statements made by the Vice Minister of the
Ministry of the Environment, Government of Japan, regarding recycled medals
(from 13 January 2017 interview)

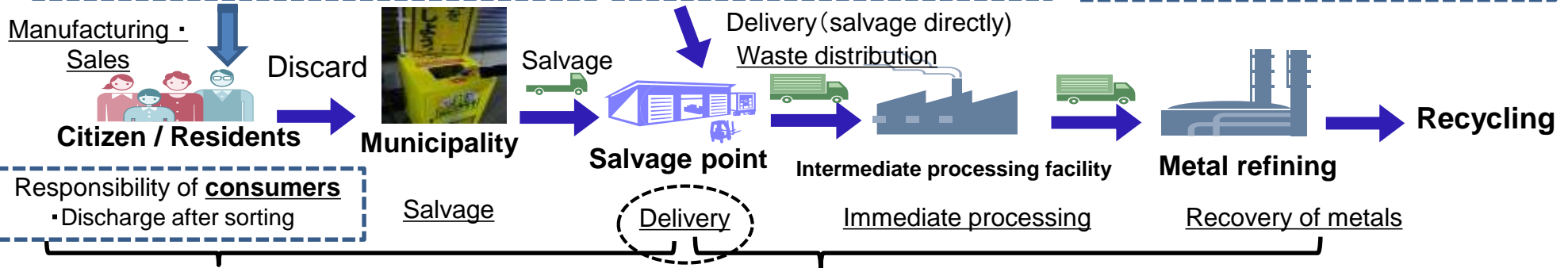
- “I think it is **very meaningful** that, of our many recycling efforts, this project will have **international appeal** and **promote the system of recycling** SWEEE, thereby **improving it’s recovery rate.**”
- “**The collaboration between the selected operators** successfully passed examination by the Organising Committee **and local governments**, proving that it can produce medals made from recycled SWEEE, and this will **establish a post-Games legacy of recycling in Japanese society.** The Ministry of the Environment, Government of Japan, **fully commits to support** this project.”

Overview of SWEEE recycling law enacted in April 2013

- Responsibilities of manufacturers**
- Reduce costs for recycling by improving design, parts, choices of raw materials
 - Using recycled materials

- Responsibilities of retailers**
- Cooperate with consumer to ensure appropriate discarding of goods.

- Responsibilities of Government**
- Provide necessary funding
 - Promote survey and R&D
 - Promote education, PR activities



- Responsibility of consumers**
- Discharge after sorting

Municipality

- Salvage after sorting
- Delivery to certified operators or other appropriate recycling operators
- ※ Select the items and manner of their salvage according to the situation of each municipality

Examples of SWEEE



Certified operators

- Every operator seeking to recycle can get **certification from the Minister in charge by submitting the implementation plan** for the recycling operation.
- Permission by municipal mayors for waste treatment operations is **not necessary for certified or consigned operators** when they recycle SWEEE.
- **If municipalities in your planned operating areas ask you to accept SWEEE** that has been salvaged after sorting, you must **do so** unless legitimate reasons for not doing so exist.

Government

- Application for certification →
- ← Certifications, directions, advices, etc.
- Certify recycling operation plans
 - Provide direction and advice, collect reports, visit and conduct administrative inspections
 - Revoke certification
- 49 operators certified by the Government as of December 2016

Reference: The location map of certified operators (49 operators in Japan)

As of December 2016

