リサイクルPET原料の高付加価値化 High Value Utilization of Recycled PET

根来産業株式会社 常務取締役 根来宣幸 Negoro Sangyo Co., Ltd. Executive Managing Director Nobuyuki NEGORO

(2019.Mar.7)

会社概要 Company profile

Company's Name: Negoro Sangyo Co., LTD.

Established: 1972 in OSAKA

Office: Kaizuka, Osaka JAPAN

Related Factory: Nara Japan, Samutprakarn Thailand

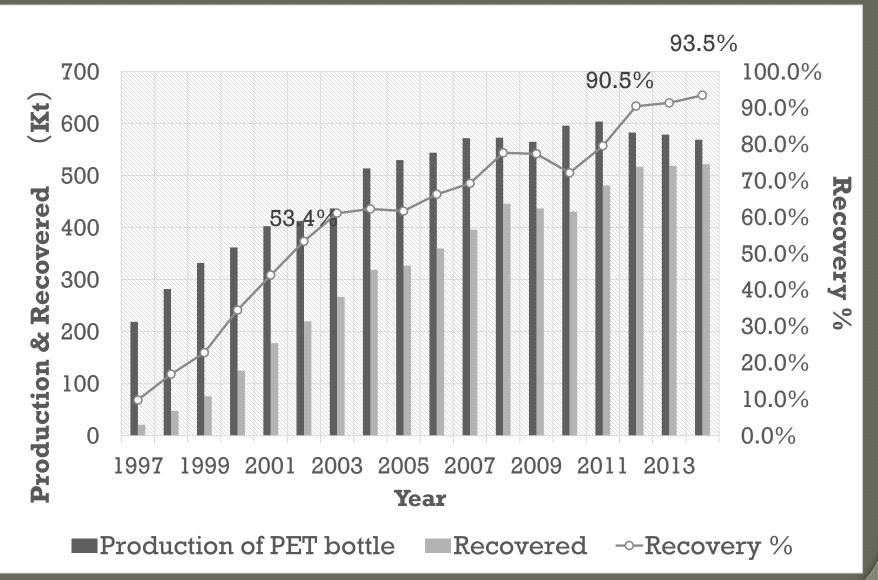
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① PET Pellets	4,000 t
2 Polyester Fiber	3,600 t
③ Nonwoven Fabric	6,000 km²

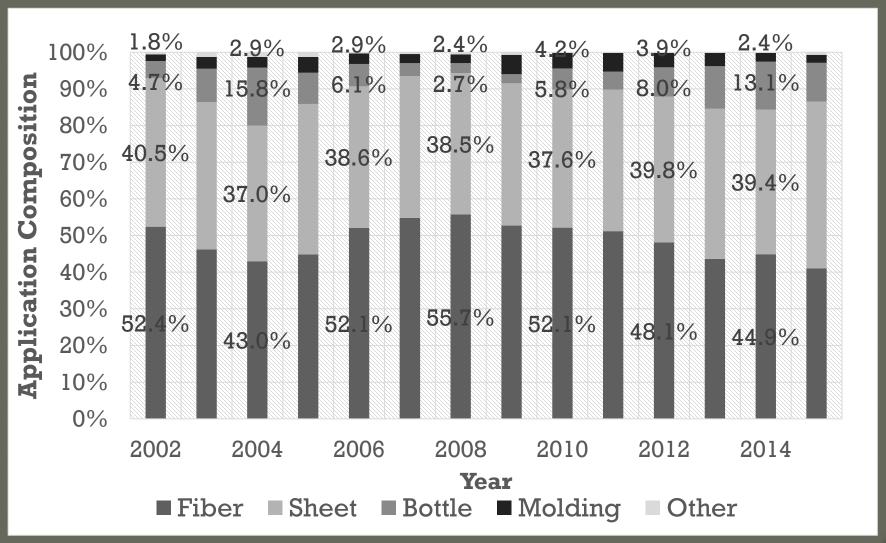
 $\stackrel{\circ}{4}$ Woven Primary Backing $12,000~\mathrm{km}^2$

5 Tufted Carpet 7,800 km²

The Recovery Rate (Japan)



Application Composition (Japan)



Source: The Japan Containers And Packing Recycling Association

Rules of Disposal at Garbage Collection Sites (Yokohama City)

Collection Day	Once a Week
Disposal Procedure	Use semi-transparent bags.
Main Items	Cans and glass bottles containing food and beverages. Plastic PET bottles with the PET bottle logo of for/of beverages, sake, "mirin" cooking wine, soy sauce products (such as "mentsuyu" noodle sauce), or salad dressing (oil free)
Caution!	Place cans, bottles, and plastic PET bottles together in one bag. Paint cans ⇒ Small Metal Items (Please empty the contents completely.) Cosmetics/medicine bottles ⇒Non-burnable Garbage



For better recycling, please separate plastic PET bottles properly. (31% of disposed plastic PET bottles have caps and labels attached.)

Recycling Process



Fiber Process



















Spinning Yarn Process



Non-Woven Process













Carpet Process

















Material and Products



Bottles (Kg)



Flakes (Kg)



Pellets(Kg)



Fiber (Kg)



Carpets (m²)



Yarn (Kg)



Non-Woven (m²)

Value

Bottles



Pellets



THB10~13/kg



THB20~26/kg (+THB11.5/kg)



THB26~32/kg (+THB17.5/kg)

Value

Fiber



THB46~57/kg (+THB38.5/kg)

*Can use only THB13/kg PET bottles for this selling price

Non-Woven Cloth



THB20/m²
200g/m²
THB102/kg
(+THB89/kg)

Value

Yarn



THB120~140/kg (+THB117/kg)

Carpet



THB147/m²
*other material cost
is deducted
600g/m²
THB245/kg
(+THB232/kg)

Added Value



- Recycling is a very costly business, but by consistently manufacturing products with high added value, it will be a business that can be fully profitable and sustainable.
- It is difficult to cover all of them with your company, it is important to find a reliable partner.

Thank you for your attention.