



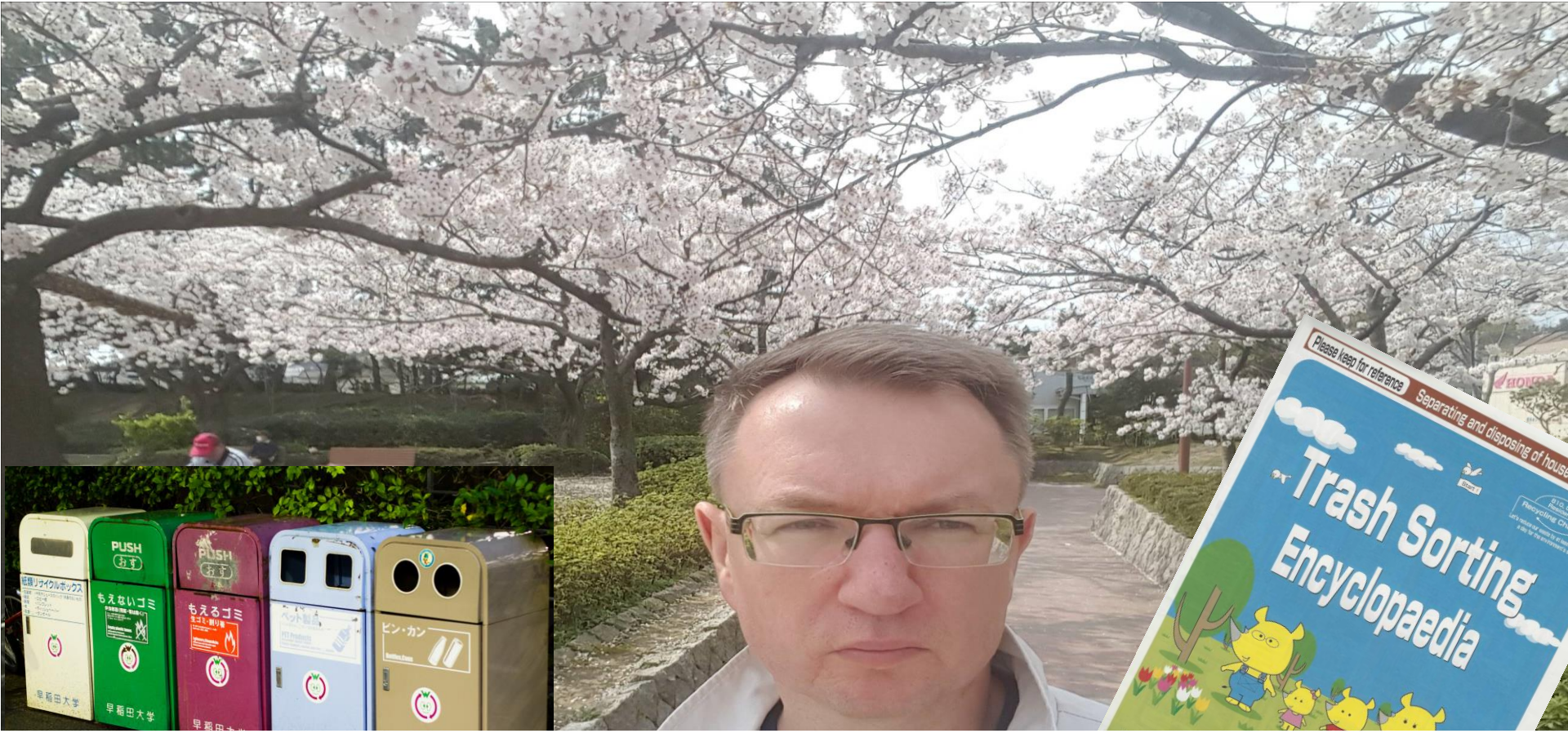
WYDZIAŁ
**INFRASTRUKTURY
I ŚRODOWISKA**
POLITECHNIKA CZĘSTOCHOWSKA

Japońskie rozwiązania w efektywnym, selektywnym zbieraniu odpadów

dr hab. inż. Jurand BIEN, prof. PCz

www.is.pcz.pl

*Racjonalizacja gospodarki odpadami w
kontekście gospodarki o obiegu zamkniętym
08 maja 2018
Polska Izba Ekologii*



Japonia zwykła się kojarzyć, pomijając oczywiście kwitnące wiśnie, z wysokim rozwojem technologicznym, także tym dotyczącym działań w zakresie gospodarki odpadami



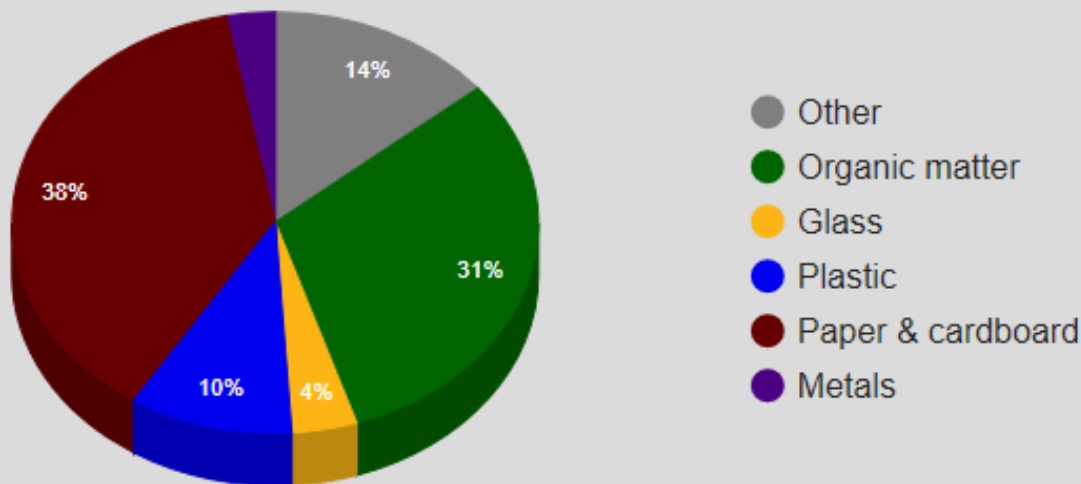
Liczba ludności (2017)	10. na świecie
• całkowita	126 451 398 ^[1]
• gęstość zaludnienia	335 osób/km ²

Country Waste Profile

Waste Indicators	Values	Units	Rank	Countries Counted
Generation Per Capita	356.2	kg/yr	63	164
Municipal Waste Generation	45,360,000	t/yr	8	164
Environmental Stress	124.40	t of MSW/km ²	24	164
Waste Intensive Consumption	0.01	kg/\$	156	157

Waste Management Performance	Values	Units
Collection coverage	100	%
Recycling rate	20,8	%
Unsound disposal	0	%

Waste Composition

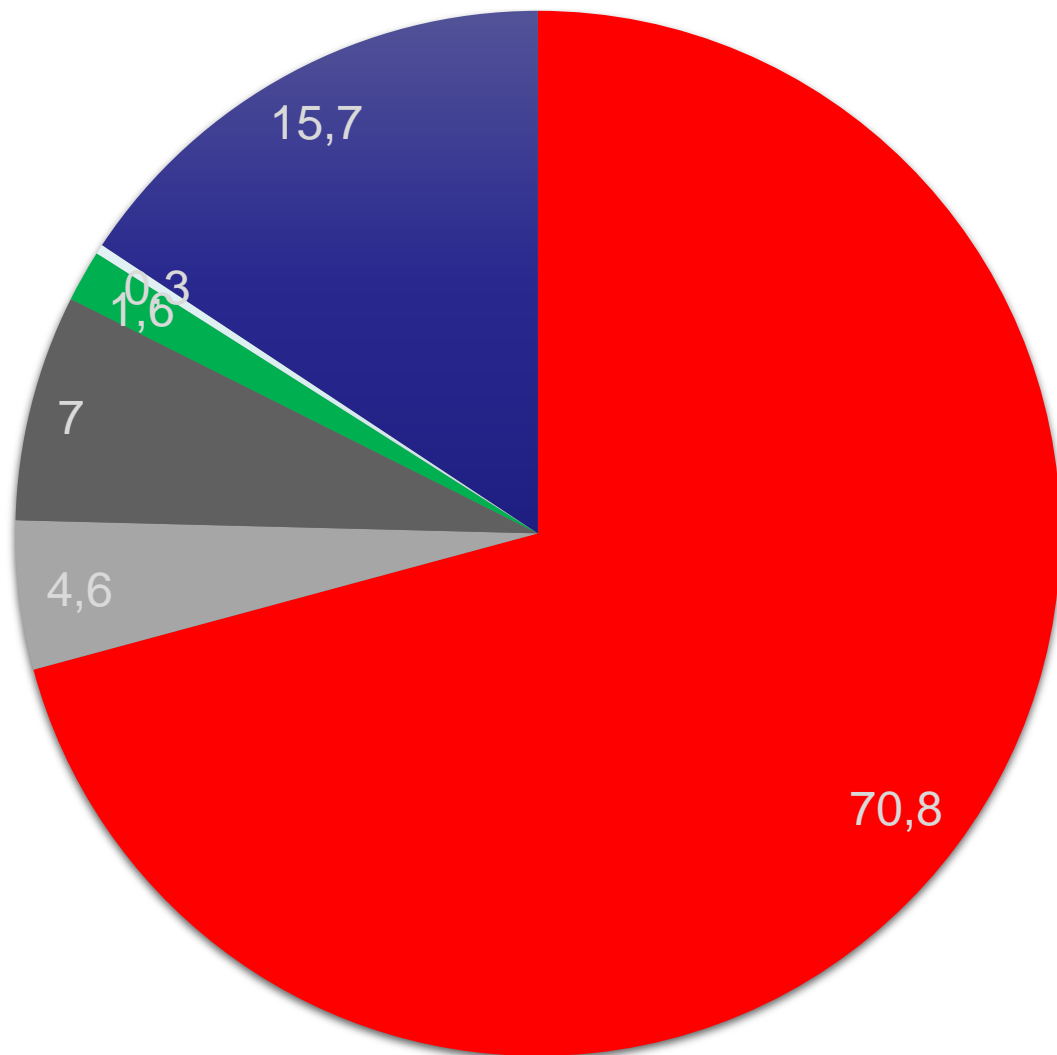


2013:
44,870,000
20,6%

2014:
44,320,000
20,6%

2015:
43,980,000
20,4%

Morfologia:



SZEŚĆ KATEGORII podział zbieranych odpadów komunalnych:

- odpady palne
- odpady niepalne
- odpady zmieszane
- odpady wielkogabarytowe
- inne
- do recyklingu

Trash

See page 13

Burnable Trash



Three times a week
official city trash bags

See page 15

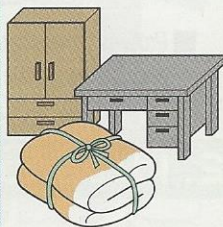
Non-Burnable
Trash



Once a month
official city trash bags

See page 16

Large-Sized
Trash



As required Individual
household applications
"Large-size trash disposal coupons"

"official city trash bags" and "Large-size trash disposal coupons" are on sale in supermarkets, convenience stores and so on.

ODPADY PALNE

Jak zbieramy?

Official city trash bags
(Semi-transparent yellow bags)



※You may still use the current specified bags after June.

Trash bag prices

Category	1 set (10bags)
Large (45 liters)	¥450
Medium (30 liters)	¥300
Small (20 liters)	¥200
Mini (10 liters)	¥100

On sale at:

- Retailers such as supermarkets and convenience stores, ward offices, branch offices and information offices.



Look for this sticker.

Co zbieramy?

2 Items collected

Kitchen and paper waste



Clothing and rags



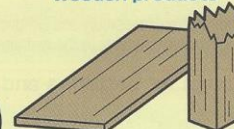
Leather products



Rubber products



Wooden products



(only if 50 cm or less in length and 10 cm or less in thickness)

Plastic products

(anything other than plastic containers and packaging or PET bottles)



Trash

See page 13



Burnable Trash



Three times a week
official city trash bags

See page 15



**Non-Burnable
Trash**



Once a month
official city trash bags

See page 16



**Large-Sized
Trash**



As required Individual
household applications
"Large-size trash disposal coupons"

"official city trash bags" and "Large-size trash disposal coupons" are on sale in supermarkets, convenience stores and so on.

ODPADY NIEPALNE

Jak zbieramy?

Official city trash bags (Transparent bags)



※ You may still use the current specified bags after June.

Trash bag prices

Category	1 set (10bags)
Large (45 liters)	¥450
Medium (30 liters)	¥300
Small (20 liters)	¥200
Mini (10 liters)	¥100

On sale at:

- Retailers such as supermarkets and convenience stores, ward offices, branch offices and information offices.

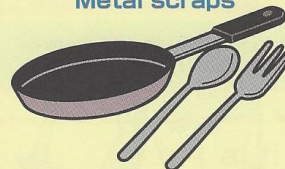


Look for this sticker.

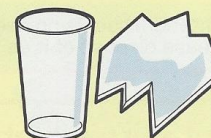
Co zbieramy?

2 Items collected

Metal scraps



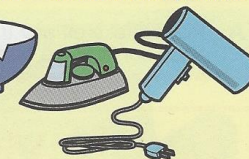
Glass products



Ceramic products



Small electrical appliances



Please wrap broken glass or ceramic items in newspaper or something and write "Danger" on it.

ODPADY WIELKOGABARYTOWE

See page 16

Large-Sized
Trash

As required individual household applications "Large-size trash disposal coupons" are on sale

2 How to dispose of them

<Request in advance by phone, fax or the Internet.>

Requests taken from June 2, 2008

1 Requests



Make a request by telephone, for example, for the item to be collected. You will be told the charge and the collection date.

By telephone

□ Large-size trash Center
TEL 025-290-5353

Open: Mon~Sat
9:00~17:00 (Except for national holidays and Dec. 29 ~Jan. 3)

※FAX025-290-5371
For people with hearing, speech or language difficulties.

The Internet

You can make a request via the Niigata City homepage.
(The request form page will open.)
Requests taken around the clock

2 Buying Large-size trash disposal coupons



Buy Large-size trash disposal coupons from a shop.
(There are four kinds: ¥100, ¥200, ¥300 and ¥500)

Large-size
disposal co

● Buy Large-size trash disposal coupons before the collection date from a retailer such as a supermarket or convenience store.

3 Putting out Large-size trash

On the collection date, attach the Large-size trash disposal coupon and put it out at the agreed collection point (for example, in front of your house).



● Write your name, address, and phone number on the coupon.
※It will not be returned.

Where to ask

Sale of Large-size trash disposal coupons

2 Furniture and bedding

(1) Furniture

① Tables, desks, chairs and sofas

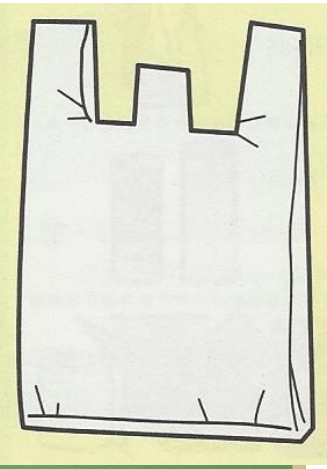
No.	Item	Charge
1	Benches (for use by two or more persons)	¥200
2	Chairs (for use by one person)	¥100
3	Desks	¥200
4	Desks with drawers	¥500
5	Sofas	¥500
6	Tables (or low tables) (less than 1 m in length on the largest side or diameter of the top board)	¥200
7	Tables (or low tables) (1 m or more in length on the largest side or diameter of the top board)	¥300

② Storage furniture

No.	Item	Charge
1	Bookshelves (Total of width, depth and height less than 2 m)	¥200
2	Bookshelves (Total of width, depth and height 2 m or more and less than 2.5 m)	¥300



ODPADY SUROWCOWE



Speedy
index

Separating and disposing of "recyclable"

Recyclable Materials

→ See page 5

Plastic containers and packaging

Once a week
Plastic bags

→ See page 7

Plastic (PET) bottles

Twice a month
Plastic bags*^①

→ See page 7

Empty glass bottles

Twice a month
Container boxes

→ See page 8

Empty cans

Twice a month
Plastic bags*^②

→ See page 9

Used paper

① Newspapers
② Magazines and miscellaneous paper
③ Cardboard
④ Cartons

Twice a month
Tied with string or in plastic bags

→ See page 11

Plants (incl. branches, leaves and grass)

Once a week
Tied with string or in plastic bags

→ See page 12

Detrimental and Dangerous articles

Once a month
Plastic bags

*^①The Niitsu district : Container boxes
The Kameda district: Nets

*^②The Niitsu, Yokogoshi and Kameda districts: Container boxes

HARMONOGRAM ODBIORU

3月 2018 MARCH						
日 Sun	月 Mon	火 Tue	水 Wed	木 Thu	金 Fri	土 Sat
25	26	27	28	1 燃やすごみ 枝葉・草	2 プラマーク 容器包装	3 燃やすごみ
4	5 飲食用・化粧品びん 飲食用缶	6 燃やすごみ	7	8 燃やすごみ 枝葉・草	9 プラマーク 容器包装	10 燃やすごみ
11	12 ペットボトル 古紙類 特定5品目	13 燃やすごみ	14	15 燃やすごみ 枝葉・草	16 プラマーク 容器包装	17 燃やすごみ
18	19 飲食用・化粧品びん 飲食用缶	20 燃やすごみ	21 春分の日	22 燃やすごみ 枝葉・草	23 プラマーク 容器包装	24 燃やすごみ
25	26 ペットボトル 古紙類 燃やさないごみ	27 燃やすごみ	28	29 燃やすごみ 枝葉・草	30 プラマーク 容器包装	31 燃やすごみ

Odpady palne wystawiane są trzy razy w tygodniu, w każdy wtorek, czwartek i sobotę, a odpady niepalne w każdy czwarty poniedziałek miesiąca.

Packaging marked

Please use colorless, transparent/semi-transparent plastic bags

Every Fri

Plastic (PET) bottles

Please use colorless, transparent/semi-transparent plastic bags

*Niitsu Area → Plastic Crate
Kameda Area → Netting
Maki Area → Netting

2nd & 4th Mon

Empty glass bottles

Plastic Crate

If your neighborhood does not have a plastic crate, use a plastic bag.

1st & 3rd Mon

Empty cans

Please use colorless, transparent/semi-transparent plastic bags

*Niitsu・Yokogoshi・Kameda Area・Maki Area → Plastic Crate

1st & 3rd Mon

Paper products (4 categories)

Sort & tie according to type

Use colorless, transparent/semi-transparent plastic bags for paper that can't be easily tied.

2nd & 4th Mon

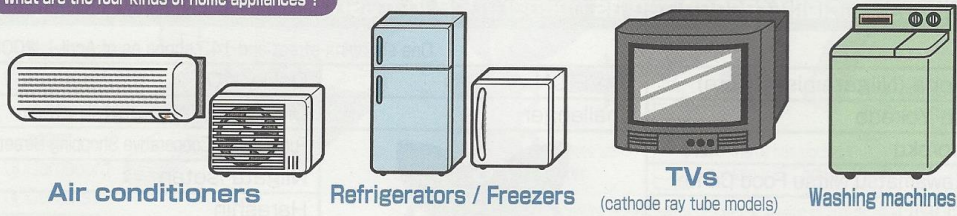
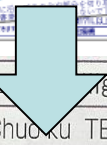


Zużyty sprzęt elektryczny i elektroniczny

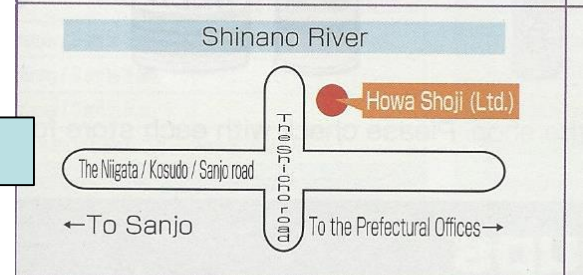
Poza systemem miejskiego odbioru

1 Four kinds of home appliances

What are the four kinds of home appliances ?

Howa Shoji (Niigata branch)
Misaki-cho 2-2-63, Chuoh-ku TEL: 025-284-0131
Mon~Sat 8:30~12:00 / 13:00~16:00
※Some sections closed on Saturdays. Closed on Sundays and national holidays.



- LG Electronics Japan, Inc.
- Orion Electric Co., Ltd.
- Corona Corporation
- Daikin Industries, Ltd.
- Toshiba Corporation
- SAMSUNG Japan Corporation
- Victor Company of Japan, Ltd.
- Matsushita Electric Industrial Co., Ltd.

Recycling charges

●The main manufacturers' charges
Air conditioners ¥3,150 Refrigerators/Freezers ¥4,830
TVs ¥2,835 Washing machines ¥2,520
※Please check at the shop or on the "RKC" homepage.
<http://www.rkc.aeha.or.jp>



Collection and transport charges

●These vary according to the shop.
※The collection/transport charges are displayed in the shop. Please check with the shop.
※These are not required if you take the appliances to the designated hand-over point yourself.



Charges required for recycling the four home appliances





Japońskie „Zerowaste”



Kamikatsu

Powierzchnia: 206,8 km²
Pogoda: 17 °C, wiatr ptn-wsch., 3 km/h, wil
Liczba ludności: 1 482 (1 paź 2016)



Koszt

Dokąd jest
przekazywany

Co z niego
będzie

上勝町資源分別方法

2010年 3月発行

毎日の収集 場所・日比ヶ谷ゴミステーション
時間・毎日 午前7時30分～午後2時まで
(年末年始は 12月31日～1月2日まで 休みです)

空きかん

- ① アルミ缶 (飲料用)
- ② スプレー缶 (家庭用)
- ③ スプレー缶 (業務用)
- ④ 缶詰
- ⑤ 調味料
- ⑥ 洗剤
- ⑦ 歯磨き粉
- ⑧ 歯ブラシ
- ⑨ 歯ブラシの柄
- ⑩ 歯ブラシの毛
- ⑪ 歯ブラシのケース
- ⑫ 歯ブラシの包装紙
- ⑬ 歯ブラシの箱
- ⑭ 歯ブラシの蓋
- ⑮ 歯ブラシの底
- ⑯ 歯ブラシの側面
- ⑰ 歯ブラシの先端
- ⑱ 歯ブラシの根元
- ⑲ 歯ブラシの全体

空きびん

- ① 透明びん
- ② 茶色びん
- ③ 緑色びん
- ④ 紫色びん
- ⑤ 黄色びん
- ⑥ 赤色びん
- ⑦ 黒色びん
- ⑧ 白色びん
- ⑨ 灰色びん
- ⑩ 青色びん
- ⑪ 緑色びん
- ⑫ 茶色びん
- ⑬ 透明びん
- ⑭ 茶色びん
- ⑮ 緑色びん
- ⑯ 透明びん
- ⑰ 茶色びん
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- ㊽ 緑色びん
- ㊾ 透明びん
- ㊿ 茶色びん

その他

- ① 布、毛布、カーテン
- ② 紙、紙パック
- ③ プラスチック製容器や包装紙
- ④ 洗剤
- ⑤ 歯磨き粉
- ⑥ 歯ブラシ
- ⑦ 歯ブラシの柄
- ⑧ 歯ブラシの毛
- ⑨ 歯ブラシのケース
- ⑩ 歯ブラシの包装紙
- ⑪ 歯ブラシの箱
- ⑫ 歯ブラシの蓋
- ⑬ 歯ブラシの底
- ⑭ 歯ブラシの側面
- ⑮ 歯ブラシの先端
- ⑯ 歯ブラシの根元
- ⑰ 歯ブラシの全体
- ⑱ 歯ブラシの部品
- ⑲ 歯ブラシの材料
- ⑳ 歯ブラシの製造者
- ㉑ 歯ブラシのブランド
- ㉒ 歯ブラシの価格
- ㉓ 歯ブラシの品質
- ㉔ 歯ブラシのデザイン
- ㉕ 歯ブラシの機能
- ㉖ 歯ブラシの用途
- ㉗ 歯ブラシの歴史
- ㉘ 歯ブラシの未来
- ㉙ 歯ブラシの文化
- ㉚ 歯ブラシの芸術
- ㉛ 歯ブラシの科学
- ㉜ 歯ブラシの技術
- ㉝ 歯ブラシの革新
- ㉞ 歯ブラシの進化
- ㉟ 歯ブラシの発展
- ㊱ 歯ブラシの繁栄
- ㊲ 歯ブラシの栄華
- ㊳ 歯ブラシの盛衰
- ㊴ 歯ブラシの興衰
- ㊵ 歯ブラシの盛衰
- ㊶ 歯ブラシの興衰
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- ㊽ 歯ブラシの盛衰
- ㊾ 歯ブラシの興衰
- ㊿ 歯ブラシの盛衰

毎週日曜日の収集物
午前7時30分～午後2時まで

- ① 袋状の廃紙
- ② 粗大ゴミ
- ③ 家電製品
- ④ 生ゴミ
- ⑤ 廃食油



Dobre praktyki w materiałach informacyjnych

2. Ideas to reduce Trash

● Take your own shopping bag rather than using plastic ones from the shop.



△ 10g

● Choose containers that can be reused.



△ 20g

● Recycle materials that can be recycled.



Newspapers (one day's worth)

△ 140g

● Eat up all your food.



△ 140g

● Buy from flea markets and second-hand shops.



△ 130g

● Buy refills.



Recyclable materials

Items



Plastic containers and packaging



Plastic (PET) bottles



Empty glass bottles



Empty cans



Used paper



Plants (incl. branches, leaves and grass)



Detrimental and Dangerous articles

After the recycling process

Examples of recycled products

Raw material for plastic products
Blast furnace reducing agents Etc.



Textile products / PET bottles



Glass bottles / Construction materials



Aluminum cans / Steel cans / Metal products

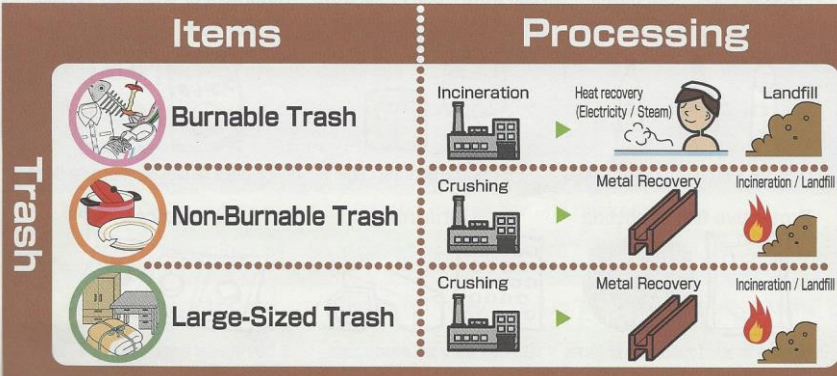


Paper products

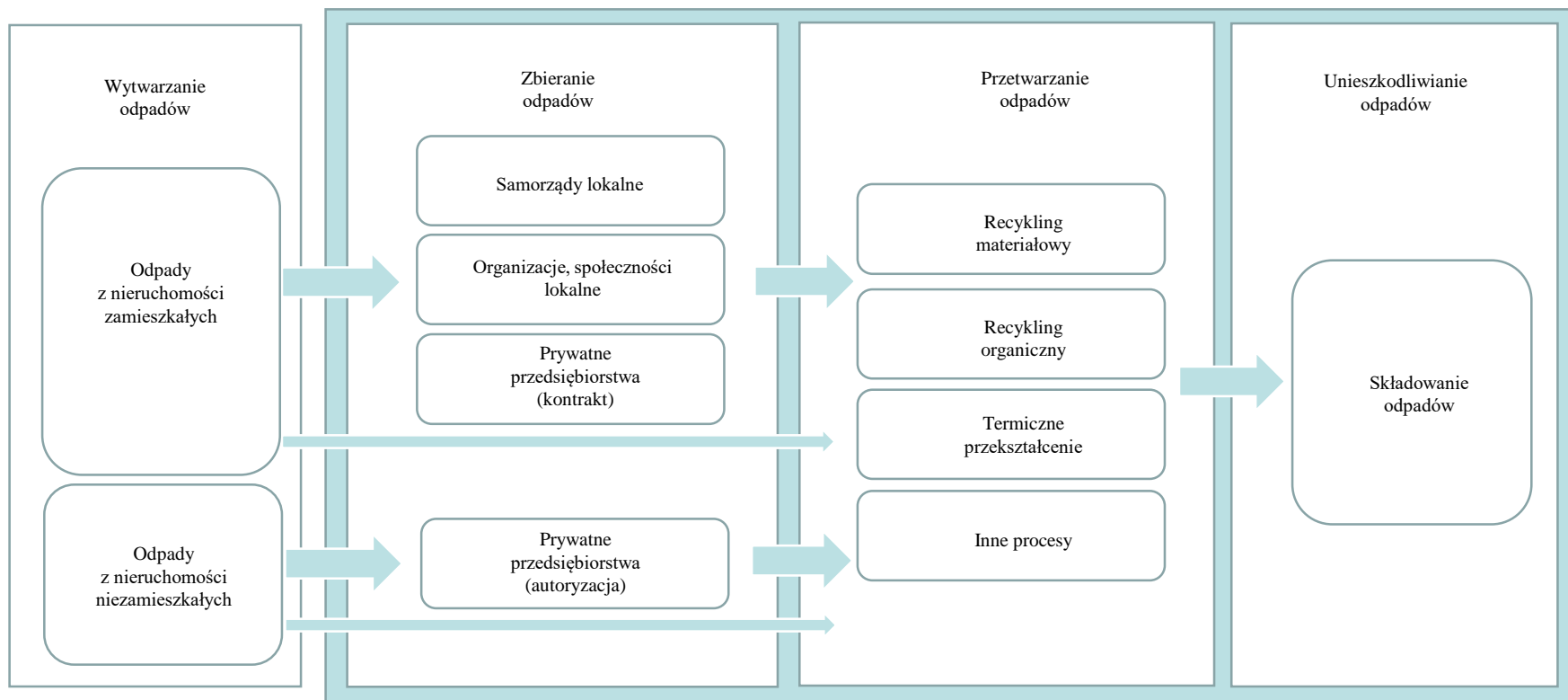


Compos

Mercury



Schemat gospodarowania odpadami komunalnymi



Okolo 30,5% wytwarzanych odpadów komunalnych z nieruchomości zamieszkałych jest zbieranych przez samorządy, pozostała ilość zbierana jest przez firmy prywatne na podstawie kontraktu.



Japońskie rozwiązania w efektywnym, selektywnym zbieraniu odpadów

ありがとうございました