

## Municipal solid waste emissions and disposal in FY2019

The Ministry of the Environment conducted a survey on the emissions and disposal of municipal solid waste (solid waste and excrement) in FY2019. The survey's results are summarized as follows. The amount and cost of disaster waste disposal subsidized by the government are excluded since FY2011.

### 1. Waste generation and disposal

#### (1) Waste generation

The total volume of waste generation slightly increased and the volume of waste generation per person per day slightly decreased.

- Total waste generation: 42,740,000 t (increased 0.02% from 42,730,000 t in 2018)
- Waste generation per person per day: 918 g (decreased 0.03% from 919 g in 2018)

#### (2) Waste disposal

The amount of landfill waste decreased 1.1% from 2018, and the recycling rate slightly decreased.

- Landfill waste: 3,800,000 t (decreased 1.1% from 3,840,000 t in 2018)
- Waste reduction rate: 99.0% (98.9% in 2018)
- Landfill waste without intermediate treatment: 1.0% (1.1% in 2018)
- Total amount of recycled waste: 8,400,000 t (decreased 1.7% from 8,540,000 t in 2018)
- Recycling rate: 19.6% (19.9% in 2018)

### 2. Waste incineration plants

- The number of waste incineration plants decreased.
- The incineration capacity per plant slightly increased.
- The plants with power generation facilities increased to 36.0% of all plants, and the total power generating capacity increased.

As of March 31, 2019;

- Number of plants: 1,067 (decreased 1.4% from 1,082 in 2018)
- Capacity: 176,707 t/day (178,336 t/day in 2018)
- Capacity per plant: 166 t/day (165 t/day in 2018)
- Number of plants using residual heat: 740 (748 in 2018)
- Number of plants with power generation facilities: 384 (379 in 2018) (36.0% of total)
- Total power generating capacity: 2,078,000 kilowatts (increased 0.4% from 2,069,000 kilowatts in 2018)

### 3. Landfill sites

- Remaining landfill capacity has decreased. The number of landfills is generally decreasing and candidate sites for landfills are increasingly difficult to secure.
- The amount of landfill waste decreased, and remaining landfill capacity expressed in terms of years decreased.

As of March 31, 2019;

- Remaining landfill capacity : 99,507,000 m<sup>3</sup> (decreased 1.8% from 101,340,000 m<sup>3</sup> in 2018)
- Remaining landfill capacity expressed in terms of years : 21.4 years (21.6 years in 2018)

4. Waste disposal expenses

Cost of waste disposal slightly decreased.

- Cost of waste disposal : 2,088.5 billion yen ( 2,091.0 billion yen in 2018)

- Main contents of expenses:

Construction and improvement	415.0 billion yen (423.8billion yen in 2018)
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Disposal and running costs	1,551.8 billion yen (1,533.1 billion yen in 2018)
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