

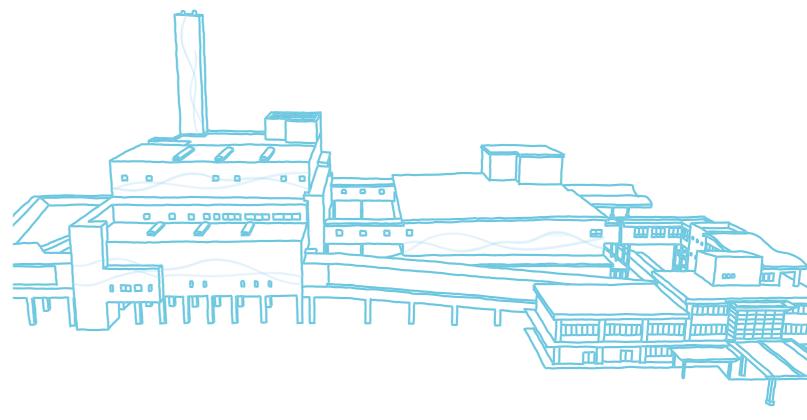
Eco-Eight Yatsushiro

[Yatsushiro Environment Center]



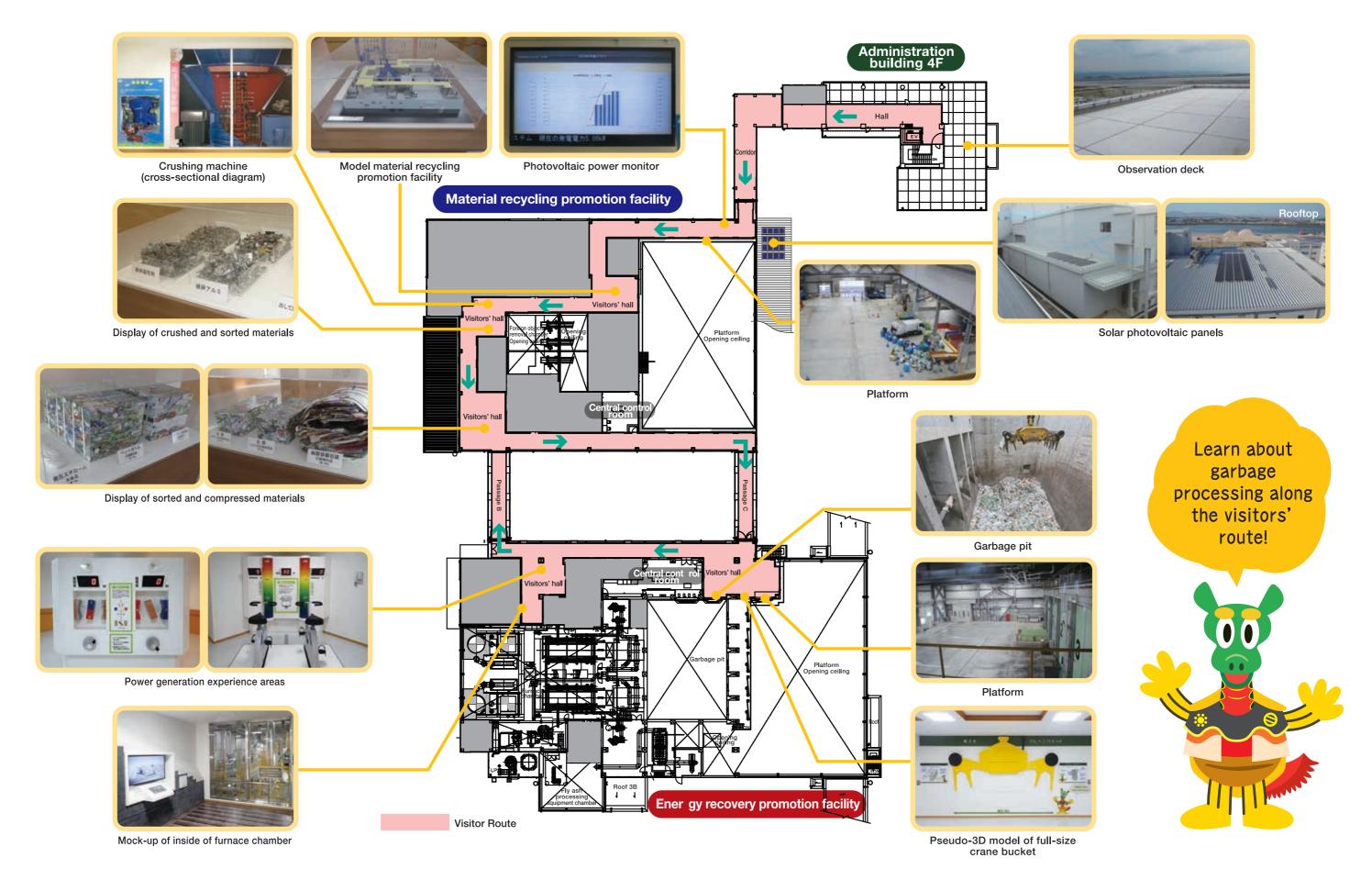
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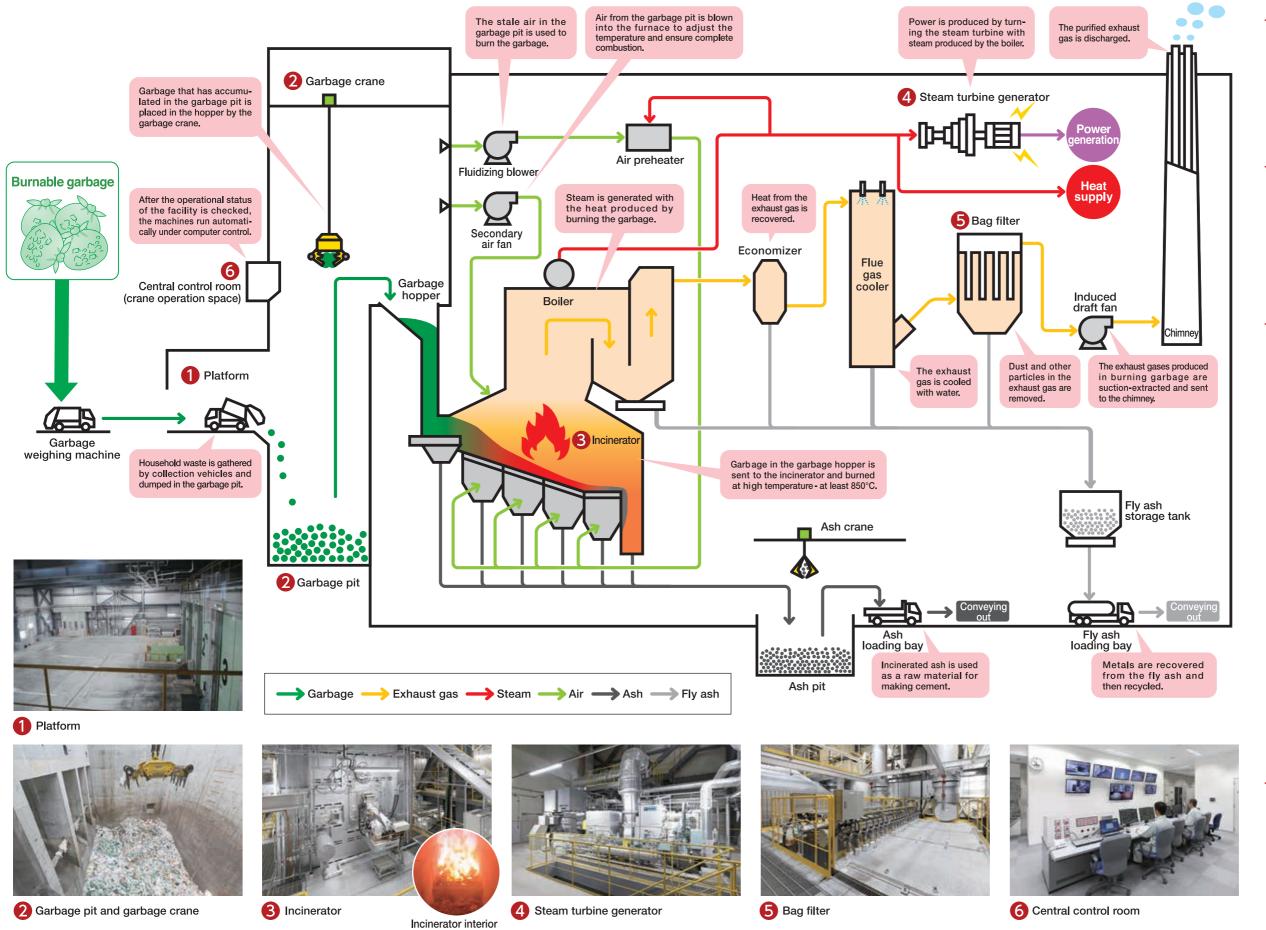




Visitor Route (details of the facility tour)



Energy Recovery Promotion Facility (Garbage Incineration Facility) Processing Flow



Garbage Flow →

Your household waste is gathered by collection vehicles and dumped in the garbage pit. Accumulated waste is transferred by the crane from the garbage pit to the garbage hopper. Then, it is conveyed to the incinerator and burned at high temperature (at least 850°C).

Ash/Fly Ash Flow → →

Ash produced by burning of the garbage is stored in the ash pit before being transported off-site. Transported ash is used to good effect as a raw material for making cement. In addition, particulates recovered from the exhaust gas (fly ash) are transported off-site and metals such as lead and cadmium are recovered from the particulates and recycled.

Exhaust Gas Flow ->

Because the exhaust gas generated by burning garbage is at such a high temperature, heat is recovered via a boiler and superheater to lower the temperature. Steam produced by this recovered heat is used to generate power. The temperature of the exhaust gas is lowered to about 150°C using the economizer and flue gas cooler and the particulates in the exhaust gas are removed by the bag filter. The purified exhaust gas is discharged into the atmosphere via the chimney.

Nitrogen oxide

Ammonia is blown into the incinerator to break down nitrogen oxide into nitrogen and water, (This technology is known as NeoSNCR®.)

Hydrogen chloride and sulfur oxide

Removed by blowing slaked lime into the exhaust gas to induce an oxidation-reduction reaction.

Particulates

Removed with filter cloths in the bag filter.

Mercury

Activated carbon is blown into the exhaust gas to absorb and remove mercury.

Steam Flow →

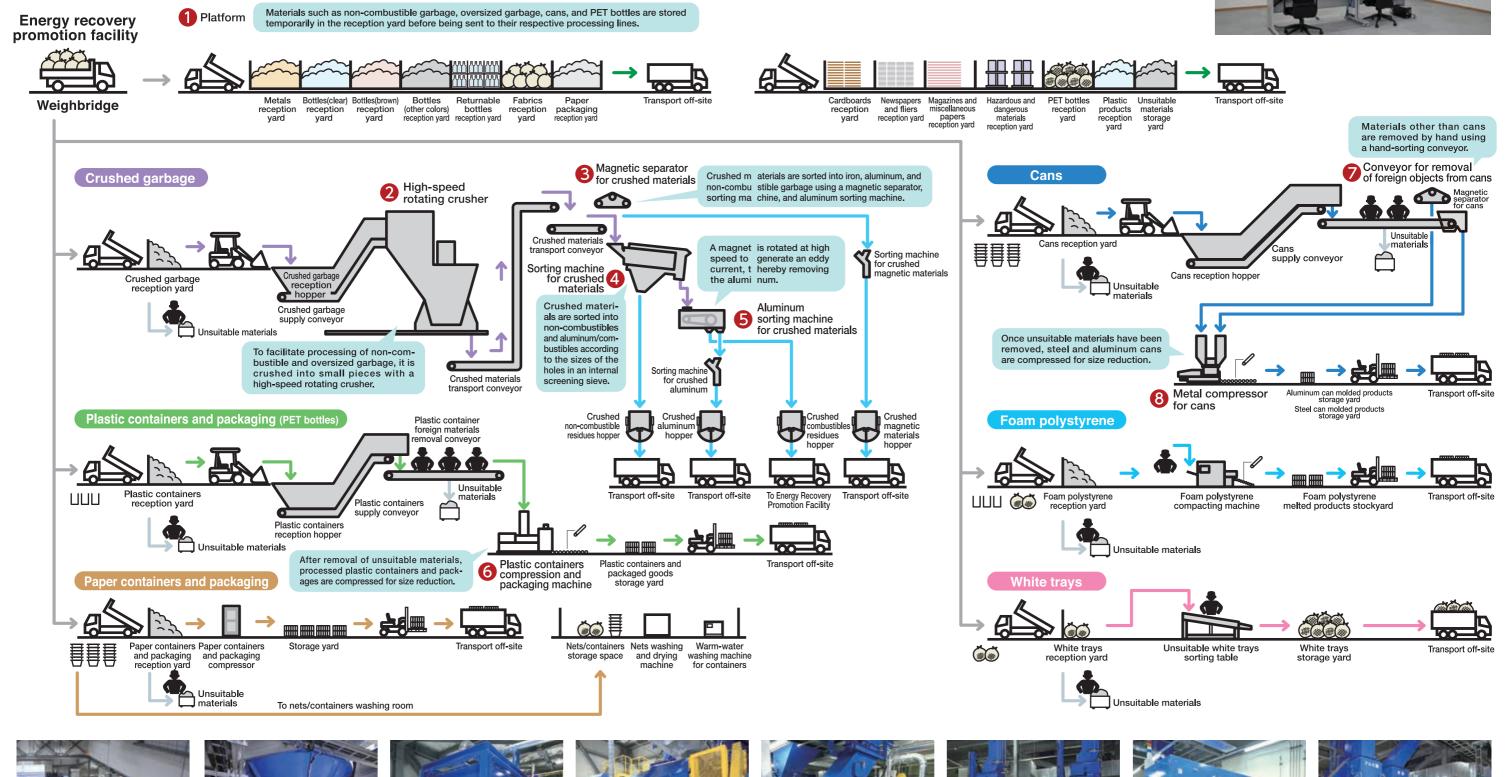
Heat recovered from the high-temperature exhaust gas is used to create steam, and power is produced by using this steam to run the steam turbine power generator. Some of the generated electricity is used to run Eco-Eight Yatsushiro as a whole and the rest is supplied to a power company.

Material Recycling Promotion Facility (Recycling Facility) Processing Flow

Central control room

Computers are used to run and halt machines in the plant, and to monitor the site interior.





















2 High-speed rotating crusher

for crushed materials

4 Sorting machine for crushed materials

for crushed materials

6 Plastic containers compression and packaging machine

foreign objects from cans

8 Metal compressor for cans

1 Platform