

Waste Recycling Plant

- **Low-environmental-impact waste treatment by converting waste into recycled fuel**

Main Features

- Can recycle a wide range of waste materials into reclaimed fuels as an alternative to fossil fuels.
- Highly reliable plants. We are proud of our operational track record in Japan of approx. 100,000 tons/year.
- Also have successful technology transfer projects in Korea and Taiwan.



Technology/Product Overview

• Features of the Plant

By combining high-performance mixing with the expertise of our company, our waste recycling plant is capable of recycling waste into reclaimed fuel as an alternative to fossil fuel. We treat a wide range of industrial waste, including waste oil and sludge discharged from various types of factories such as petroleum refineries, chemical plants, and steel plants.

This plant can recycle waste with low environmental impact without generating secondary pollution. For example, since there is no need to burn waste in our treatment process, no waste gas is emitted. There is also no wastewater generated because almost 100% of the waste is recycled.

• Features of Recycled Fuel

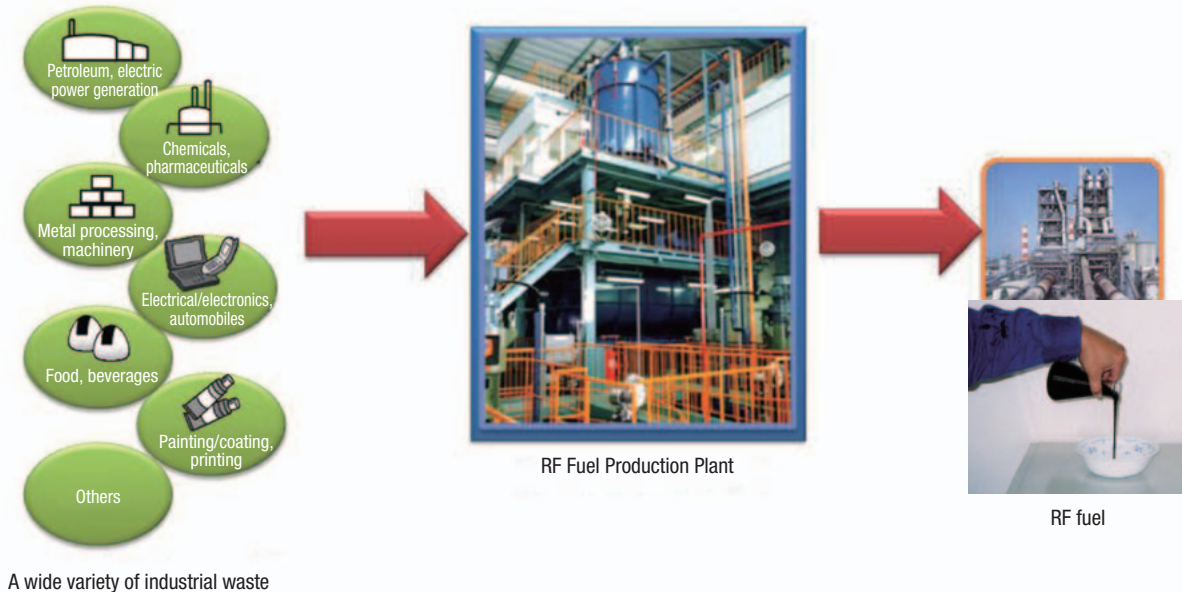
Waste that forms the raw material for the recycled fuel is typically inconsistent in terms of quantity and quality. But by employing strict quality management and using our years of expertise, we can produce recycled fuel of uniform quality in terms of caloric content, viscosity, flash point, chloride concentration, and other characteristics.

In Japan, we are currently producing recycled fuel using industrial waste as a raw material, and are selling approximately 100,000 tons per year to cement plants and chemical plants as an alternative to fossil fuels.

• Profitability Assessment

Because the quantity and quality of generated waste vary depending on the country/region and type of industry, feasibility studies must be carried out to achieve the optimal business size, processing capability, and recycled fuel quality.

We also carry out feasibility studies on business models in order to make the best use of this recycling plant technology.



Installation Examples

In Japan

- Our Osaka plant
- Our Kyushu plant
- Plant O of Company T, a major cement manufacturer

International

- Ulsan, Korea
- Kaohsiung, Taiwan

Benefits

- Approximately 96% of waste input is recycled as fuel (our results).
- Treating approximately 80,000 tons of waste per year results in a reduction of 65,000 tons of coal on a caloric equivalent basis (based on the caloric equivalent calculation).
- Can develop various new businesses by using our recycling plant technology.
 - Greater reduction in waste and improved recycling rates at factories and in industrial parks.
 - A new recycling processing method to replace incineration at waste treatment companies.
 - Reduced fuel costs at petroleum and coal-consuming facilities.
 - Other benefits

Inquiries

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