

MEDICAL WASTE RECYCLING

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What is Medical Wastes?

Medical waste (clinical/hospital waste):

waste produced from healthcare institutions/premises, such as hospitals, clinics, doctors offices, veterinary hospitals and labs, which include:

- ✓ Sharps
- ✓ Infectious
- ✓ Pathological
- ✓ Radioactive
- ✓ Pharmaceuticals
- ✓ Others

→ Medical wastes are classified as *infectious* or *biohazardous* could lead to the spread of **infectious disease** and causing **environmental pollution**



Medical waste management in Japan



Transportation

Treatment



Incineration (90%), autoclave, chemical disinfection, irradiation



Recycling factory

Econovate HIBIKI project in Kitakyushu Eco Town

Project group: ASO MINING COMPANY

Start: Sep. 2002

Processing capacity: 25 ton/day (waste from 6,000 clinic institutions in Kyushu area)

Activity: Medical instrument are pulverized, sorted after being treated by **electro thermal deactivation** treatment (ETD), and make into plastic-recycle containers, solid fuels, and concrete materials.

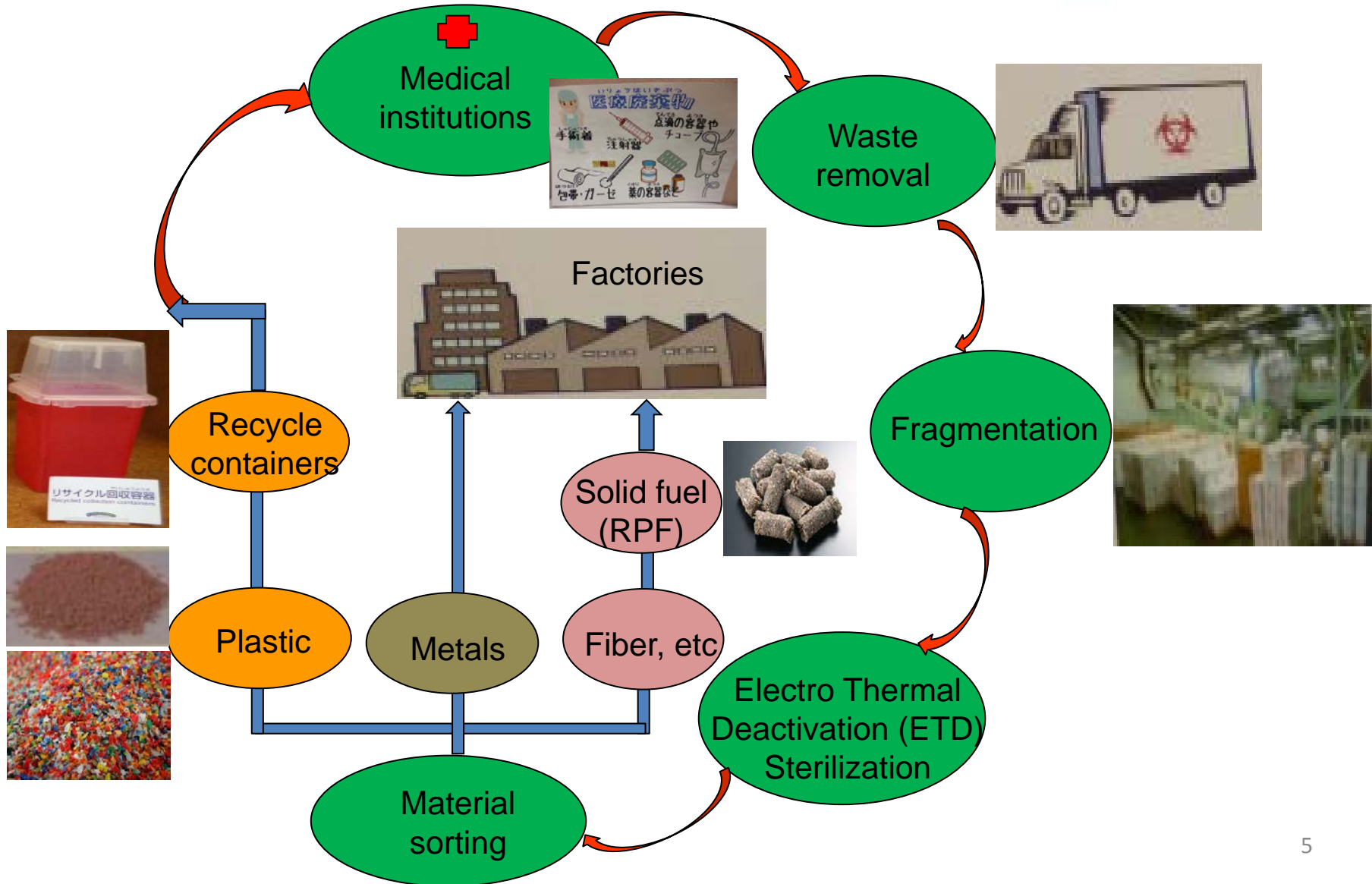
Aims: Achieve the realization of a **resource recycling-based society**

The Hibiki Recycling Area



Source: City of Kitakyushu.

Treatment of Econovate HIBIKI project



Conclusions

- **Medical waste** causes serious adverse effects to human health and environment → **appropriate treatment** system is essential
- **Econovate HIBIKI** is one of the ideal project provided specialized **environmental friendly recycling** process, which significantly contributes to reduction of environmental burdens for the society

Thank you for your kind attention!  FOLENS

