

Technical Information Sheet

1. Name of technology	Kiln-type pyrolysis gasification and melting furnace
2. Type of technology	This technology is used to modify waste into pyrolysis gas and char and allow the waste to melt thermally by itself, which reduces the consumption of fuel for combustion. This technology uses a kiln as a gasification furnace.
3. Description of technology	<p>[Objective and application of the technology] Waste is gasified, melted, and recycled as ash for high-efficiency power generation.</p> <p>[Characteristics of the technology] An indirectly heated kiln is used to pyrolyze and gasify waste.</p> <p style="text-align: center;">Flow chart</p> <p>[Delivery record] Domestic: 7 facilities Overseas: 2 facilities (licensed)</p> <p>[Price and other inquiries] Please contact the office and person in charge below.</p>
4. Classification of technology	
(1) Applicable fields	Municipal solid waste treatment, Industrial waste treatment, Hazardous waste treatment, Recycling
(2) Target waste	Paper/cardboard, Waste plastic, Plastic bottles, Glass bottles, Steel cans, Aluminum cans, Styrene foam, Food waste/raw garbage, Construction waste, Medical waste, Waste oil, Other
(3) Services provided	Plant construction, Other (plant operation and maintenance)
5. Countries to which this technology can be provided	Korea, Southeast Asia, Eastern Europe
6. Keywords	Gasification and melting furnace, kiln, slag, high-temperature air, pyrolysis, carbonization
7. Contact information	MITSUI ENGINEERING & SHIPBUILDING CO., LTD. Takehiko Ogura, Energy Solutions & Public Infrastructure Sales Department, Engineering Headquarters