


## Technical Information Sheet

<b>1. Name of technology</b>	Production and sales of solid fuel using waste as a raw material (Refused Paper and Plastic Fuel: RPF)
<b>2. Type of technology</b>	This technology produces alternative fuel to coal from materials such as waste plastic, waste paper and sludge discharged from paper production process.
<b>3. Description of technology</b>	<p><b>[Objective and application of the technology]</b>  This technology uses waste plastic as the main raw material to produce "RPF." RPF can be used as fuel for boilers, which normally use coal. The calorific value of RPF can be adjusted to suit its use by mixing in other materials such as wood, paper, and paper sludge, which have lower calorific values than plastic. This business promotes the 3 R's (Reduce, Reuse, Recycle).</p> <p><b>[Characteristics of the technology]</b></p> <ul style="list-style-type: none"> <li>Materials that are unsuitable for RPF are separated and removed in advance, so the quality of the product is stable.</li> <li>This technology can be used to produce fuel that produces heat equivalent to coal.</li> <li>RPF is an alternative fuel to coal made using energy from waste, which contributes to reducing CO<sub>2</sub> emissions and extending the service life of final disposal sites.</li> </ul> <p>Objective, application, characteristics, delivery record, and price of technology</p>  <p>Gyotoku Plant, Ichikawa Kankyo Engineering Co., Ltd. (IKE)</p> <p><b>[Implementation record]</b>  RPF production equipment and similar equipment</p> <ul style="list-style-type: none"> <li>IKE Gyotoku Plant: Treatment capacity 12 tons per hour (thermal recycling)</li> <li>M.M. Plastic Inc.: Treatment capacity 1.5 tons per hour (material recycling)</li> </ul> <p><b>[Price and other inquiries]</b>  Please contact the office and person in charge below.</p>
<b>4. Classification of technology</b>	
(1) Applicable fields	Municipal solid waste treatment, Industrial waste treatment, Recycling (thermal)
(2) Target waste	Waste paper, Waste plastic, Other(Papermaking sludge, scrap wood, scrap fabric)
(3) Services provided	Plant construction, Waste treatment service, Technical cooperation/licensing, Consulting, Survey/data processing
<b>5. Countries to which this technology can be provided</b>	ASEAN countries
<b>6. Keywords</b>	Recycling, RPF, solid fuel, waste plastic, waste paper, papermaking sludge
<b>7. Contact information</b>	<p>ICHIKAWA KANKYO ENGINEERING CO., LTD.</p> <p>Department: Innovation Business Department</p> <p>Person in charge: Takano and Ishizuka</p> <p>Contact: +81-3-5540-4220</p>