

Technical Information Sheet

1. Name of technology	Conversion of waste plastic to RPF (Refuse Paper & Plastic Fuel)
2. Type of technology	Industrial waste contains a lot of waste plastic, most of which has thus far been incinerated or landfilled. The waste paper and wooden scrap that have not been recycled like waste plastic, can be crushed, mixed with waste plastic, and recycled as solid fuel called RPF. RPF uses waste, but has energy equivalent to coal. Thus its use contributes to waste recycling, is an alternative to fossil fuels, and reduces CO ₂ emissions.
3. Description of technology	<p>[Objective and application of the technology] This technology is used to recycle the waste plastic, waste paper, wooden scrap, and fabric scrap that have been incinerated and landfilled as RPF. All RPF produced is transported to paper manufacturing companies and is used as an alternative to the conventional boiler fuel, heavy oil C.</p> <p>[Characteristics of the technology] Industrial waste contains a lot of waste plastic, most of which has thus far been incinerated or landfilled. The waste paper and wooden scrap that have not been recycled like waste plastic, can be crushed, mixed with waste plastic, and recycled as solid fuel called RPF. The RPF facility has contributed to the promotion of recycling. Although RPF is nothing more than waste, it has energy equivalent to coal. Earth Support has been producing RPF at their RPF facility at a rate of 72 tons per day (24-hour operation) and delivering all the RPF to paper manufacturing companies. The paper manufacturing companies are using the RPF as an alternative to the conventional boiler fuel known as heavy oil C and have reduced CO₂ emissions to about 25% of the level of fossil fuels. This contributes to the promotion of recycling waste, creating alternatives to fossil fuels, and reducing CO₂ emissions.</p> <p>[Delivery record] Treatment capacity: 72 tons per day (24-hour operation) Amount of RPF produced: 240 tons monthly (average)</p> <p>[Price and other inquiries] Contact: Sales Department TEL: (0852) 37-2890 FAX: (0852) 37-2892 E-mail: earth@earth-support.jp</p>
4. Classification of technology	
(1) Applicable fields	Municipal solid waste treatment, Industrial waste treatment, Recycling
(2) Target waste	Paper/cardboard, Waste plastic, Plastic bottles, Styrene foam, Construction waste, Other (scrap wood and scrap fabric)
(3) Services provided	Waste treatment service
5. Countries to which this technology can be provided	China
6. Keywords	RPF, recycling, solid fuel
7. Contact information	<p>Earth Support Corporation Keisuke Nishimura, General Affairs and Planning Department TEL: 0852-37-2890 FAX: 0852-37-2892 E-mail: earth@earth-support.jp http://www.earth-support.jp/</p>