



## Technical Information Sheet

<b>1. Name of technology</b>	Biomass pyrolysis kiln technology for power generation system
<b>2. Type of technology</b>	Indirect heating high temperature pyrolysis kiln for biomass thermal treatment in order to make power generation & coal substitute fuel (Carbonized fuel)
<b>3. Description of technology</b>	<p><b>[Objective and application of the technology]</b> Biomass is pyrolyzed for power generation and production of carbonized fuel (char).</p> <p><b>[Characteristics of the technology]</b></p> <ul style="list-style-type: none"> <li>• Large scale unit operation (4 t/h is our maximum delivery record)</li> <li>• Easy handling since carbonized fuel from sewage sludge is incinerated at coal firing plants in the Japanese market as “Green fuel”</li> </ul> <p>Biomass is pyrolyzed with indirect heating rotary kiln made of superalloy equipped with lifters (high temperature flue gas in the combustion furnace, a pyrolysis gas, is used as the heat source). This technology is characterized by the indirect heating kiln and downdraft high temperature furnace. Carbonized fuel from sewage sludge has been used at coal firing plant in Japan over 3 years.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Pyrolysis kiln system (for wood chips)</p> </div> <div style="text-align: center;">  <p>Carbonized fuel from sewage sludge</p> </div> </div> <p><b>[Delivery record]</b> <b>(wood chips)</b> Mie Chuo Kaihatsu 96 t/d, Maeda Road Construction Co., Ltd. 95 t/d <b>(sewage sludge)</b> Bio Fuel Co., Inc. (Sludge plant in the eastern part of Tokyo) 100 t/d × 3 lines</p> <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	Industrial waste treatment, Other (sludge, wood chips, etc.)
(2) Target waste	Other (sludge, wood chips, etc.)
(3) Services provided	Plant construction, Sales of machinery and equipment, Waste treatment service
<b>5. Expecting market</b>	Europe, Asia
<b>6. Keywords</b>	Biomass, gasification, rotary kiln, carbonization, Green fuel
<b>7. Contact information</b>	<p>Mitsubishi Heavy Industries Environmental &amp; Chemical Engineering Co., Ltd. Export Sales Group, Plant Business Department TEL: +81-45-227-1273 URL: <a href="http://www.mhiec.co.jp/">http://www.mhiec.co.jp/</a></p>