Thermal waste treatment plants
In chronological order

Clean Energy Solutions - Worldwide
China, Shangai Laogang
Capacity: 4 x 32Mg/h
Fuel: domestic waste
Start-up: 2013

Japan, Bekki Hayami, Oita Pref.
Capacity: 2 x 5Mg/h
Fuel: domestic waste
Energy recovery: electricity
Features: Flue gas recirculation
Start-up: 2013

Japan, Matsuyama City, Ehime Pref.
Capacity: 3 x 6Mg/h
Fuel: domestic waste
Energy recovery: electricity
Features: Flue gas recirculation
Start-up: 2013

China, Haikou
Capacity: 2 x 25Mg/h
Fuel: domestic waste
Energy recovery: electricity
Features: Flue gas recirculation
Start-up: 2012

Finland, Vaasa
Capacity: 1 x 20Mg/h / 61MW
Fuel: domestic waste, industrial waste
Energy recovery: electricity, hot water
Features: Aquaroll ®, Flue gas recirculation, Tang. nozzle 2
Start-up: 2012

Japan, Hatano & Isehara Union, Kanagawa Pref.
Capacity: 2 x 5Mg/h
Fuel: domestic waste
Energy recovery: electricity
Features: Flue gas recirculation
Start-up: 2012
China, Dalian
Capacity: 3 x 21Mg/h
Fuel: domestic waste
Start-up: 2011

China, Wuxi
Capacity: 4 x 21Mg/h
Fuel: domestic waste
Energy recovery: electricity
Features: Flue gas recirculation
Start-up: 2011

France, Noyelles s/Lens Remplacement
Capacity: 2 x 6Mg/h
Fuel: domestic waste
Energy recovery: electricity
Start-up: 2011

Netherlands, Roosendaal
Capacity: 2 x 19Mg/h
Fuel: domestic waste
Energy recovery: electricity, hot water
Features: Aquaroll ®, Flue gas recirculation, Tang. nozzle 2
Start-up: 2011

Norway, Oslo
Capacity: 1 x 24Mg/h
Fuel: domestic waste, industrial waste
Energy recovery: electricity, hot water
Features: Aquaroll ®, Flue gas recirculation
Start-up: 2011

United Kingdom, Newhaven
Capacity: 2 x 14Mg/h / 36MW
Fuel: domestic waste
Energy recovery: electricity
Features: Aquaroll ®, Flue gas recirculation, Tang. nozzle 2
Start-up: 2011
<table>
<thead>
<tr>
<th>Country</th>
<th>Location</th>
<th>Capacity</th>
<th>Fuel</th>
<th>Energy recovery</th>
<th>Features</th>
<th>Start-up</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>Riverside, London</td>
<td>3 x 32Mg/h / 80MW</td>
<td>Domestic waste, industrial waste</td>
<td>Electricity</td>
<td>Flue gas recirculation</td>
<td>2011</td>
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<tr>
<td>Austria</td>
<td>Dürnrohr L3</td>
<td>1 x 33Mg/h / 90MW</td>
<td>Domestic waste, refuse derived fuel</td>
<td></td>
<td></td>
<td>2010</td>
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<tr>
<td>Japan</td>
<td>Iwata (Bannan), Shizuoka Pref.</td>
<td>2 x 5Mg/h</td>
<td>Domestic waste</td>
<td>Electricity</td>
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<td>2010</td>
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<tr>
<td>Japan</td>
<td>Osaka Higashiyodo II</td>
<td>2 x 9Mg/h</td>
<td>Domestic waste</td>
<td>Electricity, steam</td>
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<td>2010</td>
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<tr>
<td>Luxembourg</td>
<td>Leudelange</td>
<td>1 x 20Mg/h</td>
<td>Domestic waste</td>
<td>Electricity</td>
<td>Aquaroll ®, Tang. nozzle 2</td>
<td>2010</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Delfzijl</td>
<td>2 x 22Mg/h / 60MW</td>
<td>Domestic waste, refuse derived fuel</td>
<td></td>
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<td>2010</td>
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<tr>
<td>Thermal waste treatment plants</td>
<td>Netherlands, Harlingen</td>
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<td>Capacity: 1 x 28Mg/h</td>
<td>Start-up: 2010</td>
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<td>Fuel: domestic waste</td>
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<table>
<thead>
<tr>
<th>Norway, Bergen (Line 2)</th>
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<tbody>
<tr>
<td>Capacity: 1 x 16Mg/h</td>
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<tr>
<td>Fuel: domestic waste</td>
</tr>
<tr>
<td>Energy recovery: electricity, hot water</td>
</tr>
<tr>
<td>Features: Aquaroll®, Flue gas recirculation, Tang. nozzle 2</td>
</tr>
<tr>
<td>Start-up: 2010</td>
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</table>

<table>
<thead>
<tr>
<th>Austria, Zistersdorf</th>
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<tr>
<td>Capacity: 1 x 20Mg/h</td>
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<tr>
<td>Fuel: domestic waste</td>
</tr>
<tr>
<td>Features: Aquaroll®, Flue gas recirculation, Tang. nozzle 2</td>
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<td>Start-up: 2009</td>
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</table>

<table>
<thead>
<tr>
<th>Germany, Hameln L4</th>
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<tbody>
<tr>
<td>Capacity: 1 x 22Mg/h / 60MW</td>
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<tr>
<td>Fuel: domestic waste, refuse derived fuel</td>
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<td>Start-up: 2009</td>
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<table>
<thead>
<tr>
<th>Germany, Mannheim (MK6)</th>
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<tbody>
<tr>
<td>Capacity: 1 x 25Mg/h / 87MW</td>
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<tr>
<td>Fuel: domestic waste, refuse derived fuel</td>
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<td>Start-up: 2009</td>
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<table>
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<tr>
<th>Japan, Aira</th>
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<tbody>
<tr>
<td>Capacity: 2 x 2Mg/h</td>
</tr>
<tr>
<td>Fuel: domestic waste</td>
</tr>
<tr>
<td>Start-up: 2009</td>
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</tbody>
</table>
Japan, Yamagata in Gifu Prefecture
Capacity: 2 x 1Mg/h
Fuel: domestic waste
Start-up: 2009

South Korea, Iksan
Capacity: 2 x 5Mg/h
Fuel: domestic waste
Energy recovery: electricity
Start-up: 2009

Spain, Mallorca
Capacity: 2 x 27Mg/h / 70MW
Fuel: domestic waste, sewage sludge
Energy recovery: electricity
Features: Aquaroll ®, Tang. nozzle 2
Start-up: 2009

Switzerland, Buchs SG Line 2
Capacity: 1 x 9Mg/h / 27MW
Fuel: domestic waste, industrial waste
Energy recovery: electricity, hot water, steam
Start-up: 2009

United Kingdom, Cleveland (Line 3)
Capacity: 1 x 19Mg/h / 46MW
Fuel: domestic waste
Energy recovery: electricity
Features: Tang. nozzle 2
Start-up: 2009

United States, Olmsted
Capacity: 1 x 8Mg/h
Fuel: domestic waste
Energy recovery: electricity
Features: Flue gas recirculation, Tang. nozzle 2
Start-up: 2009
Thermal waste treatment plants
In chronological order

Austria, Pfaffenau
Capacity: 2 x 16Mg/h / 40MW
Fuel: domestic waste, refuse derived fuel
Start-up: 2008

Belgium, Liège (Intradel)
Capacity: 2 x 21Mg/h
Fuel: domestic waste
Energy recovery: electricity
Features: Aquaroll ®, Flue gas recirculation, Tang. nozzle 2
Start-up: 2008

China, Chengdu Luodai
Capacity: 3 x 17Mg/h
Fuel: domestic waste
Energy recovery: electricity
Start-up: 2008

China, Xiamen Garbage Treatment
Capacity: 2 x 9Mg/h
Fuel: domestic waste
Energy recovery: electricity
Features: Spraydryer
Start-up: 2008

Germany, Grossräschen (EBS-KW)
Capacity: 1 x 30Mg/h / 102MW
Fuel: domestic waste, refuse derived fuel
Start-up: 2008

Germany, Hürth Knapsack (EBS-KW)
Capacity: 2 x 16Mg/h / 65MW
Fuel: domestic waste, refuse derived fuel
Start-up: 2008
Germany, Premnitz (EBS-KW)
Capacity: 1 x 19Mg/h / 56MW
Fuel: domestic waste, refuse derived fuel
Start-up: 2008

Germany, Witzenhausen
Capacity: 1 x 35Mg/h
Fuel: Pulp sludge, refuse derived fuel
Energy recovery: electricity, steam
Features: Flue gas recirculation
Start-up: 2008

Netherlands, Moerdijk Line 4
Capacity: 1 x 39Mg/h
Fuel: domestic waste
Energy recovery: electricity, steam
Features: Aquaroll®, Flue gas recirculation
Start-up: 2008

France, Dunkerque
Capacity: 1 x 12Mg/h
Fuel: domestic waste
Energy recovery: electricity
Features: Flue gas recirculation, Tang. nozzle 2
Start-up: 2007

France, Issy-les-Moulineaux
Capacity: 2 x 31Mg/h
Fuel: domestic waste
Energy recovery: electricity
Features: Aquaroll®, Flue gas recirculation, Tang. nozzle 2
Start-up: 2007

Germany, Bamberg
Capacity: 3 x 6Mg/h
Fuel: domestic waste, industrial waste
Energy recovery: hot water
Thermal waste treatment plants
In chronological order

Germany, Leuna 2
Capacity: 1 x 25Mg/h / 77MW
Fuel: domestic waste, refuse derived fuel
Start-up: 2007

Germany, Stassfurt
Capacity: 2 x 20Mg/h / 56MW
Fuel: domestic waste, industrial waste
Energy recovery: electricity, steam
Features: Aquaroll ®, Tang. nozzle 2
Start-up: 2007

Norway, Trondheim (Line 3)
Capacity: 1 x 18Mg/h
Fuel: domestic waste
Energy recovery: hot water
Features: Aquaroll ®, Flue gas recirculation, Tang. nozzle 2
Start-up: 2007

Belgium, Antwerp
Capacity: 3 x 20Mg/h / 48MW
Fuel: domestic waste, refuse derived fuel, sludge
Start-up: 2006

Germany, Erfurt
Capacity: 1 x 10Mg/h / 26MW
Fuel: domestic waste, refuse derived fuel
Energy recovery: electricity, hot water, steam
Features: Aquaroll ®, Tang. nozzle 2
Start-up: 2006

Germany, Frankfurt
Capacity: 4 x 20Mg/h / 57MW
Fuel: domestic waste
Start-up: 2006
Germany, Magdeburg-Rothensee (L3+4)
Capacity: 2 x 22Mg/h / 67MW
Fuel: domestic waste, refuse derived fuel
Start-up: 2006

Germany, Stuttgart-Münster
Capacity: 2 x 20Mg/h / 62MW
Fuel: domestic waste, refuse derived fuel
Features: Spraydryer
Start-up: 2006

Guernsey, Guernsey
Capacity: 1 x 9Mg/h
Fuel: domestic waste
Start-up: 2006

Japan, Jonan Haseyama II
Capacity: 2 x 5Mg/h
Fuel: domestic waste
Energy recovery: electricity
Start-up: 2006

Japan, Otaru
Capacity: 2 x 5Mg/h
Fuel: domestic waste
Energy recovery: electricity
Start-up: 2006

Japan, Tamura, Fukushima Pref.
Capacity: 1 x 2Mg/h
Fuel: domestic waste
Energy recovery: steam
Start-up: 2006
Switzerland, Lausanne (Tridel)
Capacity: 2 x 10Mg/h / 40MW
Fuel: domestic waste
Energy recovery: electricity, hot water
Features: Aquaroll ®, Flue gas recirculation, Tang. nozzle 2
Start-up: 2006

United Kingdom, Allington
Capacity: 3 x 22Mg/h / 54MW
Fuel: domestic waste
Start-up: 2006

France, Rennes (Line 1+2)
Capacity: 2 x 5Mg/h
Fuel: domestic waste
Energy recovery: electricity, steam
Features: Spraydryer
Start-up: 2005

France, Rennes (Line 3)
Capacity: 1 x 8Mg/h
Fuel: domestic waste
Energy recovery: electricity, steam
Features: Spraydryer
Start-up: 2005

Germany, Buschhaus (K3)
Capacity: 1 x 23Mg/h / 58MW
Fuel: domestic waste, refuse derived fuel
Start-up: 2005

Germany, Hannover-Lahe
Capacity: 2 x 14Mg/h / 53MW
Fuel: domestic waste, refuse derived fuel
Start-up: 2005
Thermal waste treatment plants
In chronological order

**Germany, Leuna 1**
Capacity: 1 x 25Mg/h / 77MW
Fuel: domestic waste, refuse derived fuel
Start-up: 2005

**Germany, Ludwigslust**
Capacity: 1 x 6Mg/h / 16MW
Fuel: domestic waste
Energy recovery: electricity
Features: Aquaroll ®, Tang. nozzle 2
Start-up: 2005

**Germany, Magdeburg-Rohensee (L1+2)**
Capacity: 2 x 20Mg/h / 67MW
Fuel: domestic waste, refuse derived fuel
Start-up: 2005

**Germany, Zorbau**
Capacity: 2 x 21Mg/h / 54MW
Fuel: domestic waste
Energy recovery: electricity
Features: Aquaroll ®
Start-up: 2005

**Japan, Ohdate**
Capacity: 2 x 2Mg/h
Fuel: domestic waste
Start-up: 2005

**Japan, Tokyo Ohi II**
Capacity: 2 x 13Mg/h
Fuel: domestic waste
Energy recovery: electricity
Start-up: 2005
### Thermal waste treatment plants

**In chronological order**

<table>
<thead>
<tr>
<th>Location</th>
<th>Capacity</th>
<th>Fuel</th>
<th>Energy recovery</th>
<th>Start-up</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Korea, Incheon South</td>
<td>2 x 11 Mg/h</td>
<td>Domestic waste</td>
<td>Steam</td>
<td>2005</td>
</tr>
<tr>
<td>Spain, Cantabria</td>
<td>1 x 12 Mg/h / 41 MW</td>
<td>Refuse derived fuel</td>
<td>Steam</td>
<td>2005</td>
</tr>
<tr>
<td>Sweden, Uppsala</td>
<td>1 x 27 Mg/h</td>
<td>Domestic waste</td>
<td>Hot water, steam</td>
<td>2005</td>
</tr>
<tr>
<td>Taiwan, Yunlin</td>
<td>2 x 13 Mg/h</td>
<td>Domestic waste</td>
<td>Electricity</td>
<td>2005</td>
</tr>
<tr>
<td>Austria, EBS Wien</td>
<td>1 x 13 Mg/h / 39 MW</td>
<td>Domestic waste, sewage sludge</td>
<td>Electricity</td>
<td>2004</td>
</tr>
<tr>
<td>Germany, Freiburg im Breisgau</td>
<td>1 x 20 Mg/h / 61 MW</td>
<td>Domestic waste</td>
<td>Electricity</td>
<td>2004</td>
</tr>
</tbody>
</table>
Germany, Lauta (K1+2)
Capacity: 2 x 15Mg/h / 40MW
Fuel: domestic waste, refuse derived fuel
Start-up: 2004

Germany, Salzbergen
Capacity: 1 x 16Mg/h / 47MW
Fuel: domestic waste, refuse derived fuel
Start-up: 2004

Germany, Solingen (MK1)
Capacity: 1 x 8Mg/h / 27MW
Fuel: domestic waste, refuse derived fuel
Start-up: 2004

Hungary, Budapest
Capacity: 4 x 15Mg/h / 36MW
Fuel: domestic waste
Start-up: 2004

Japan, Kashiwa
Capacity: 2 x 6Mg/h
Fuel: domestic waste
Energy recovery: hot water
Start-up: 2004

Netherlands, Alkmaar Line 4
Capacity: 1 x 28Mg/h
Fuel: domestic waste
Energy recovery: electricity
Features: Aquaroll ®, Flue gas recirculation, Spraydryer, Tang. nozzle 2
Start-up: 2004
Thermal waste treatment plants
In chronological order

**Portugal, Madeira**
- Capacity: 2 x 8Mg/h / 18MW
- Fuel: domestic waste
- Start-up: 2004

**Taiwan, Taitung**
- Capacity: 2 x 7Mg/h
- Fuel: domestic waste
- Energy recovery: electricity
- Start-up: 2004

**Austria, Dürnrohr**
- Capacity: 2 x 24Mg/h / 60MW
- Fuel: domestic waste, refuse derived fuel
- Start-up: 2003

**France, Dijon Retrofit combustion/boiler**
- Capacity: 2 x 10Mg/h
- Fuel: domestic waste
- Start-up: 2003

**France, Evreux**
- Capacity: 2 x 6Mg/h
- Fuel: domestic waste, sewage sludge
- Energy recovery: electricity
- Features: Tang. nozzle 2
- Start-up: 2003

**France, Perpignan**
- Capacity: 2 x 11Mg/h
- Fuel: domestic waste
- Energy recovery: electricity
- Features: Tang. nozzle 2
- Start-up: 2003
**Italy, E.P. Sistemi, Colleferro**
Capacity: 1 x 12Mg/h / 55MW  
Fuel: refuse derived fuel  
Start-up: 2003

**Italy, EALL San Vittore**
Capacity: 1 x 12Mg/h / 55MW  
Fuel: refuse derived fuel  
Start-up: 2003

**Italy, MOBIL Service, Colleferro**
Capacity: 1 x 12Mg/h / 55MW  
Fuel: refuse derived fuel  
Start-up: 2003

**Italy, Strongoli**
Capacity: 2 x 21Mg/h / 60MW  
Fuel: biomass  
Start-up: 2003

**Switzerland, Thun**
Capacity: 1 x 19Mg/h / 46MW  
Fuel: domestic waste  
Energy recovery: electricity, hot water  
Features: Aquaroll®, Flue gas recirculation, Tang. nozzle 2  
Start-up: 2003

**France, Le Mans III (Line 2bis)**
Capacity: 1 x 11Mg/h  
Fuel: domestic waste  
Energy recovery: electricity  
Features: Tang. nozzle 2  
Start-up: 2002
**Italy, Terni TAD-Energia**  
Capacity: 1 x 12Mg/h / 55MW  
Fuel: refuse derived fuel  
Start-up: 2002

**Japan, Higashi-Izu**  
Capacity: 2 x 2Mg/h  
Fuel: domestic waste  
Start-up: 2002

**Japan, Nasu**  
Capacity: 2 x 3Mg/h  
Fuel: domestic waste  
Start-up: 2002

**Japan, Okinoerabu**  
Capacity: 2 x 2Mg/h  
Fuel: domestic waste  
Start-up: 2002

**Japan, Shimonoseki Honshu**  
Capacity: 1 x 8Mg/h  
Fuel: domestic waste  
Start-up: 2002

**Switzerland, Emmenspitz Line 4**  
Capacity: 1 x 10Mg/h / 29MW  
Fuel: domestic waste, industrial waste, sewage sludge  
Energy recovery: electricity, hot water, steam  
Features: Aquaroll®, Tang. nozzle 2  
Start-up: 2002

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**Thermal waste treatment plants**  
In chronological order
United Kingdom, Kirklees, Huddersfield
Capacity: 1 x 17Mg/h
Fuel: domestic waste
Start-up: 2002

France, Maubeuge
Capacity: 2 x 6Mg/h
Fuel: domestic waste
Energy recovery: electricity, hot water, steam
Features: Tang. nozzle 2
Start-up: 2001

France, Mulhouse (Lentjes)
Capacity: 2 x 12Mg/h / 27MW
Fuel: domestic waste, sewage sludge
Start-up: 2001

France, Rouen
Capacity: 3 x 15Mg/h
Fuel: domestic waste
Energy recovery: electricity
Start-up: 2001

France, Salaise III
Capacity: 1 x 19Mg/h
Fuel: domestic waste, industrial waste
Energy recovery: electricity, steam
Features: Aquaroll ®, Tang. nozzle 2
Start-up: 2001

Germany, Nürnberg TAN
Capacity: 3 x 11Mg/h / 35MW
Fuel: domestic waste
Energy recovery: steam
Features: Aquaroll ®, Flue gas recirculation, Tang. nozzle 4
Start-up: 2001
<table>
<thead>
<tr>
<th><strong>Germany, Premnitz</strong></th>
<th>Capacity: 1 x 10Mg/h</th>
<th>Start-up: 2001</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Fuel: refuse derived fuel</td>
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<tr>
<th><strong>Italy, Trezzo</strong></th>
<th>Capacity: 2 x 11Mg/h</th>
<th>Start-up: 2001</th>
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<tbody>
<tr>
<td></td>
<td>Fuel: domestic waste</td>
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<tr>
<td></td>
<td>Energy recovery: electricity</td>
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<td>Features: Aquaroll®, Tang. nozzle 2</td>
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<thead>
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<th><strong>Japan, Nishimurayama</strong></th>
<th>Capacity: 2 x 3Mg/h</th>
<th>Start-up: 2001</th>
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<td>Fuel: domestic waste</td>
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</table>

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<tr>
<th><strong>Japan, Tokyo Chuo</strong></th>
<th>Capacity: 2 x 13Mg/h</th>
<th>Start-up: 2001</th>
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<tbody>
<tr>
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<td>Fuel: domestic waste</td>
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<td>Energy recovery: electricity</td>
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</table>

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<tr>
<th><strong>Taiwan, HYEC Taoyuan</strong></th>
<th>Capacity: 2 x 28Mg/h</th>
<th>Start-up: 2001</th>
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<tbody>
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<td>Fuel: domestic waste</td>
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<thead>
<tr>
<th><strong>France, Gien</strong></th>
<th>Capacity: 2 x 5Mg/h / 14MW</th>
<th>Start-up: 2000</th>
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<tbody>
<tr>
<td></td>
<td>Fuel: domestic waste, hospital waste, sewage sludge</td>
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</tbody>
</table>
Thermal waste treatment plants
In chronological order

**Japan, Amagasaki II, Hyogo Pref.**
- Capacity: 1 x 7Mg/h
- Fuel: domestic waste
- Start-up: 2000

**Japan, Fukuoka**
- Capacity: 3 x 13Mg/h
- Fuel: domestic waste
- Energy recovery: electricity
- Start-up: 2000

**Japan, Hitachi City II**
- Capacity: 3 x 5Mg/h
- Fuel: domestic waste
- Start-up: 2000

**Japan, Minami-Kawachi II, Osaka Pref.**
- Capacity: 2 x 4Mg/h
- Fuel: domestic waste
- Start-up: 2000

**Japan, Nishi-Kaigan**
- Capacity: 1 x 3Mg/h
- Fuel: domestic waste
- Start-up: 2000

**Japan, Osaka Maishima**
- Capacity: 2 x 19Mg/h
- Fuel: domestic waste
- Energy recovery: electricity
- Start-up: 2000
South Korea, Buchon Daejang-Dong
Capacity: 1 x 13Mg/h
Fuel: domestic waste
Energy recovery: electricity
Start-up: 2000

Taiwan, Changhua Hsichou
Capacity: 2 x 19Mg/h
Fuel: domestic waste
Energy recovery: electricity
Start-up: 2000

Czech Republic, Liberec
Capacity: 1 x 12Mg/h / 31MW
Fuel: domestic waste
Energy recovery: electricity, steam
Features: Flue gas recirculation
Start-up: 1999

Japan, Ariake, Kumamoto Pref.
Capacity: 2 x 3Mg/h
Fuel: domestic waste
Start-up: 1999

Japan, Chosei II
Capacity: 2 x 3Mg/h
Fuel: domestic waste
Start-up: 1999

Japan, Ichijima
Capacity: 2 x 1Mg/h
Fuel: domestic waste
Start-up: 1999
Thermal waste treatment plants
In chronological order

Japan, Maniwa
Capacity: 2 x 2Mg/h
Fuel: domestic waste
Start-up: 1999

Japan, Urakawa
Capacity: 2 x 2Mg/h
Fuel: domestic waste
Start-up: 1999

Norway, Bergen
Capacity: 1 x 16Mg/h / 45MW
Fuel: domestic waste
Energy recovery: electricity, steam
Features: Flue gas recirculation, Tang. nozzle 4
Start-up: 1999

Sweden, Umea II
Capacity: 1 x 24Mg/h
Fuel: domestic waste
Energy recovery: electricity, hot water
Features: Aquaroll ®, Flue gas recirculation, Tang. nozzle 4
Start-up: 1999

Taiwan, Taichung Houli
Capacity: 2 x 19Mg/h
Fuel: domestic waste
Energy recovery: electricity
Start-up: 1999

United States, 3M, Cottage Grove, MN
Capacity: 1 x 8Mg/h
Fuel: industrial waste
Features: round secondary combustion chamber
Start-up: 1999
**Austria, RVL Lenzing**
Capacity: 1 x 20Mg/h
Fuel: biomasse, refuse derived fuel, sewage sludge
Start-up: 1998

**France, Bezons II (Argenteuil)**
Capacity: 1 x 9Mg/h
Fuel: domestic waste
Energy recovery: electricity, steam
Features: Flue gas recirculation
Start-up: 1998

**France, Quarville**
Capacity: 2 x 8Mg/h
Fuel: domestic waste
Start-up: 1998

**France, Vert-le-Grand**
Capacity: 2 x 14Mg/h
Fuel: domestic waste
Energy recovery: electricity
Features: Flue gas recirculation
Start-up: 1998

**Germany, Buschhaus (K1+2)**
Capacity: 2 x 23Mg/h / 58MW
Fuel: domestic waste, refuse derived fuel
Start-up: 1998

**Germany, Darmstadt V (Line 3)**
Capacity: 1 x 11Mg/h
Fuel: domestic waste
Energy recovery: steam
Features: Aquaroll ®
Start-up: 1998
<table>
<thead>
<tr>
<th>Location</th>
<th>Energy recovery:</th>
<th>Capacity</th>
<th>Fuel</th>
<th>Start-up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germany, Pirmasens</td>
<td>electricity, steam</td>
<td>2 x 12Mg/h</td>
<td>domestic waste, sewage sludge</td>
<td>1998</td>
</tr>
<tr>
<td>Japan, Kyushu Hokusei</td>
<td></td>
<td>1 x 5Mg/h</td>
<td>industrial waste</td>
<td>1998</td>
</tr>
<tr>
<td>Japan, Kyushu Sanpai</td>
<td></td>
<td>1 x 4Mg/h</td>
<td>industrial waste</td>
<td>1998</td>
</tr>
<tr>
<td>Japan, Matsumoto</td>
<td>electricity, hot water</td>
<td>3 x 7Mg/h</td>
<td>domestic waste</td>
<td>1998</td>
</tr>
<tr>
<td>Japan, Mino-Kamo</td>
<td>electricity</td>
<td>3 x 4Mg/h</td>
<td>domestic waste</td>
<td>1998</td>
</tr>
<tr>
<td>Japan, Nagaoka</td>
<td></td>
<td>2 x 4Mg/h</td>
<td>domestic waste</td>
<td>1998</td>
</tr>
</tbody>
</table>
Japan, Ohshima
Capacity: 2 x 2Mg/h
Fuel: domestic waste
Start-up: 1998

Japan, Soraku
Capacity: 2 x 2Mg/h
Fuel: domestic waste
Start-up: 1998

Japan, Tama II, Tokyo Pref.
Capacity: 2 x 9Mg/h
Fuel: domestic waste
Energy recovery: electricity
Start-up: 1998

Japan, Tosa
Capacity: 2 x 3Mg/h
Fuel: domestic waste
Start-up: 1998

South Korea, Taegu II
Capacity: 2 x 9Mg/h
Fuel: domestic waste
Energy recovery: electricity, hot water
Start-up: 1998

Germany, Hamburg
Capacity: 2 x 7Mg/h / 35MW
Fuel: industrial waste
Energy recovery: steam
Features: round secondary combustion chamber
Start-up: 1997
Germany, Kassel (K3+4)
Capacity: 2 x 10Mg/h / 31MW
Fuel: domestic waste, refuse derived fuel
Start-up: 1997

Germany, Mannheim (MK4)
Capacity: 1 x 25Mg/h / 67MW
Fuel: domestic waste, refuse derived fuel
Start-up: 1997

Germany, Ulm
Capacity: 2 x 9Mg/h
Fuel: domestic waste
Energy recovery: electricity, steam
Features: Flue gas recirculation
Start-up: 1997

Germany, Velsen
Capacity: 2 x 15Mg/h / 42MW
Fuel: domestic waste
Energy recovery: electricity
Features: Flue gas recirculation
Start-up: 1997

Japan, Hamakita
Capacity: 2 x 3Mg/h
Fuel: domestic waste
Start-up: 1997

Japan, Shintoku
Capacity: 1 x 2Mg/h
Fuel: domestic waste
Start-up: 1997
<table>
<thead>
<tr>
<th>Location</th>
<th>Capacity</th>
<th>Fuel</th>
<th>Start-up</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Japan, Tokyo Sumida</strong></td>
<td>1 x 25Mg/h</td>
<td>domestic waste</td>
<td>1997</td>
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<tr>
<td><strong>Japan, Uda</strong></td>
<td>2 x 2Mg/h</td>
<td>domestic waste</td>
<td>1997</td>
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<tr>
<td><strong>Japan, Yasu</strong></td>
<td>2 x 2Mg/h</td>
<td>domestic waste</td>
<td>1997</td>
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<tr>
<td><strong>South Korea, Kunpo, Seoul</strong></td>
<td>1 x 9Mg/h</td>
<td>domestic waste</td>
<td>1997</td>
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<tr>
<td><strong>Spain, Madrid</strong></td>
<td>3 x 13Mg/h / 39MW</td>
<td>refuse derived fuel</td>
<td>1997</td>
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<tr>
<td><strong>Taiwan, Taipei Pei-Tou</strong></td>
<td>4 x 19Mg/h</td>
<td>domestic waste</td>
<td>1997</td>
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<tr>
<td>Country</td>
<td>Plant Name</td>
<td>Capacity</td>
<td>Fuel</td>
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<tr>
<td>Germany</td>
<td>Bremerhaven RCP</td>
<td>1 x 6Mg/h</td>
<td>Domestic waste</td>
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<td>Italy</td>
<td>Macomer 2</td>
<td>1 x 3Mg/h / 9MW</td>
<td>Domestic waste, hospital waste, refuse derived fuel</td>
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<tr>
<td>Japan</td>
<td>Chichibu</td>
<td>2 x 4Mg/h</td>
<td>Domestic waste</td>
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<tr>
<td>Japan</td>
<td>Ebino</td>
<td>2 x 3Mg/h</td>
<td>Domestic waste</td>
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<td>Japan</td>
<td>Hokusou-Seibu</td>
<td>3 x 3Mg/h</td>
<td>Domestic waste</td>
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<td>Japan</td>
<td>Kameoka</td>
<td>3 x 3Mg/h</td>
<td>Domestic waste</td>
</tr>
</tbody>
</table>
Japan, Kasuga
Capacity: 2 x 1Mg/h
Fuel: domestic waste
Start-up: 1996

Japan, Kiryu
Capacity: 3 x 7Mg/h
Fuel: domestic waste
Start-up: 1996

Japan, Tanabe
Capacity: 2 x 4Mg/h
Fuel: domestic waste
Energy recovery: hot water
Start-up: 1996

Japan, Toyosaka II
Capacity: 1 x 4Mg/h
Fuel: domestic waste
Start-up: 1996

Japan, Yamanaka
Capacity: 2 x 2Mg/h
Fuel: domestic waste
Start-up: 1996

Japan, Yuki
Capacity: 2 x 5Mg/h
Fuel: domestic waste
Start-up: 1996
<table>
<thead>
<tr>
<th>Country</th>
<th>City</th>
<th>Energy recovery</th>
<th>Capacity</th>
<th>Fuel</th>
<th>Start-up</th>
<th>Features</th>
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</thead>
<tbody>
<tr>
<td>Netherlands</td>
<td>Moerdijk</td>
<td>Electricity, steam</td>
<td>3 x 27Mg/h / 81MW</td>
<td>Domestic waste</td>
<td>1996</td>
<td>Flue gas recirculation, Tang. nozzle 2</td>
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<tr>
<td>Spain</td>
<td>Melilla</td>
<td>Electricity</td>
<td>1 x 5Mg/h</td>
<td>Domestic waste</td>
<td>1996</td>
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<td>Bermuda</td>
<td>Tynes Bay</td>
<td>Electricity</td>
<td>2 x 6Mg/h</td>
<td>Domestic waste</td>
<td>1995</td>
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<tr>
<td>Japan</td>
<td>Chigasaki</td>
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<td>3 x 5Mg/h</td>
<td>Domestic waste</td>
<td>1995</td>
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<td>Japan</td>
<td>Chosei I</td>
<td></td>
<td>1 x 4Mg/h</td>
<td>Domestic waste</td>
<td>1995</td>
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<tr>
<td>Japan</td>
<td>Matsudo</td>
<td></td>
<td>3 x 5Mg/h</td>
<td>Domestic waste</td>
<td>1995</td>
<td></td>
</tr>
</tbody>
</table>
Japan, Niihari
Capacity: 2 x 4Mg/h
Fuel: domestic waste
Start-up: 1995

Japan, Nishi-Amakusa
Capacity: 2 x 2Mg/h
Fuel: domestic waste
Start-up: 1995

Japan, Saitama-Tobu
Capacity: 4 x 9Mg/h
Fuel: domestic waste
Energy recovery: electricity, hot water
Start-up: 1995

Japan, Sendai Kuzuoka, Miyagi Pref.
Capacity: 2 x 13Mg/h
Fuel: domestic waste
Energy recovery: electricity, hot water
Start-up: 1995

Netherlands, Alkmaar
Capacity: 3 x 19Mg/h
Fuel: domestic waste
Energy recovery: electricity
Features: Flue gas recirculation
Start-up: 1995

United States, Lisbon, CT
Capacity: 2 x 10Mg/h
Fuel: domestic waste
Energy recovery: electricity
Start-up: 1995