Thermylis™ 2S

2-stage sludge incineration process

- **innovation**
  a combination of an incinerator and a sludge dryer supporting the system’s energy self-sufficiency

- **savings**
  near-zero fuel consumption

- **environment**
  reduced environmental impact through sustainable development energy recovery

- **drastically reduce energy costs using the heat value of sludge**

Thermylis™ 2S, sustainable technology based on energy recovery, provides one of the most efficient, the most economical and the most environmentally-friendly means to reduce sludge volume.

**key figure**

up to 0 fossil fuel energy consumption
Thermylis™ 2S technology . . .

The most optimal solution in terms of volume reduction, thereby reducing costs (transport and / or landfill disposal), the Thermylis™ 2S (“2 steps”) process is the last-step in a sludge treatment process. Comprising of a high-temperature incinerator (850°C) unit and a thermal drying unit placed immediately before it, the dryer unit can feed the incinerator with partially dried sludge. The Thermylis™ 2S is fitted with all the necessary feed or storage equipment (Archimedes screw or pumps for semi-solid sludge, pneumatic or screw conveyers for ash and silos for storage).

A winning combination which significantly reduces energy consumption: its main economic and environmental advantages lie in the recovery of residual energy produced by the incinerator’s flue-gas which is then used to power the thermal drying with free energy.

. . . what it can do for you

- near-zero fuel consumption (fuel, gas) due to recovered energy
- transport and landfill costs reduced through optimal reduction of volumes
- ultimate sludge volume reduction (between 7-10% of the volume of dehydrated sludge)
- maximum combustion yield
- automatic, non-stop operation (24 / 7)

environment
- very low environmental impact
- near-zero primary energy consumption
- reduction in CO₂ emissions
- complete elimination of pathogens and hormonal molecules thus strengthening health and safety

SUEZ treatment infrastructure
innovation.mailin@degremont.com
www.degremont.com

among our references

<table>
<thead>
<tr>
<th>Location</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kielce, Poland</td>
<td>300,000 PE</td>
</tr>
<tr>
<td>Gdansk, Poland</td>
<td>800,000 PE</td>
</tr>
<tr>
<td>Valenton, France</td>
<td>1,200,000 PE</td>
</tr>
</tbody>
</table>