

# GLOUCESTER-SHIRE

WASTE-TO-ENERGY PLANT, GLOUCESTERSHIRE (UK)



## Key information:

- Installation: New Plant
- Capacity: 23t/h
- Upstream Equipment: Grate, SNCR, Steam Boiler
- FGC process: SecoLAB™
- Commissioning: 2019

## TECHNICAL HIGHLIGHTS

- REDUCED OPERATING COSTS AND LOW LIME CONSUMPTION
- EASY TO MAINTAIN AND OPERATE
- SAFE RESPECT OF EMISSIONS LIMITS
- PREPARED FOR STRICTER EMISSIONS LIMITS



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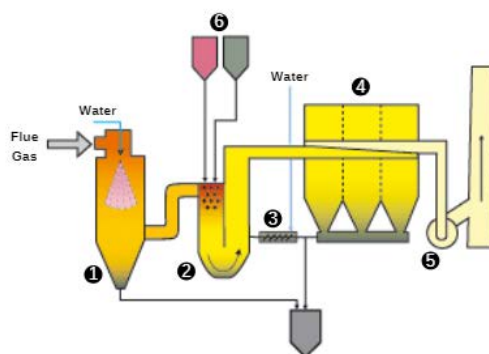
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## SECOLAB™ SYSTEM

SecoLAB™ is an efficient dry system based on hydrated lime reagent.

It includes 3 steps:

- Flue gas conditioning: to assure optimum process temperature by conditioning tower.
- Injection of dry reagents: for a powerful removal of acid pollutants by hydrated lime and removal of heavy metals, mercury and dioxins by activated carbon.
- Reactivation and recirculation of residues (directly through ACTILAB™ screw), buffering of pollutant peaks, minimization of reagents consumption.



- ① Conditioning Tower
- ② Reactor
- ③ Actilab
- ④ Bag filter
- ⑤ ID Fan
- ⑥ Reagents (Activated carbon / Lime)

Volume flow	135'000 Nm <sup>3</sup> /h wet	
Inlet Temperature	170°C	
<b>Pollutants (mg/Nm<sup>3</sup>)</b>	<b>Before FGT</b>	<b>After FGT</b>
Dust	2000	5
HCl	600	10
SO <sub>2</sub>	300	50
HF	10	1
Hg	0,25	0,05
Heavy metals	60	0,5
Cd + Tl	1,8	0,05

The facility will provide many benefits for waste recovery in Gloucestershire:

- 50% of energy produced by the plant can be classed as renewable.
- Generate enough electricity to power the equivalent of around 25,000 homes.



- Recover over 90% of Gloucestershire's incoming residual waste from landfill.
- Produce over 30,000 tonnes of sustainable aggregates.
- Recover around 3,000 tons of metals.



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