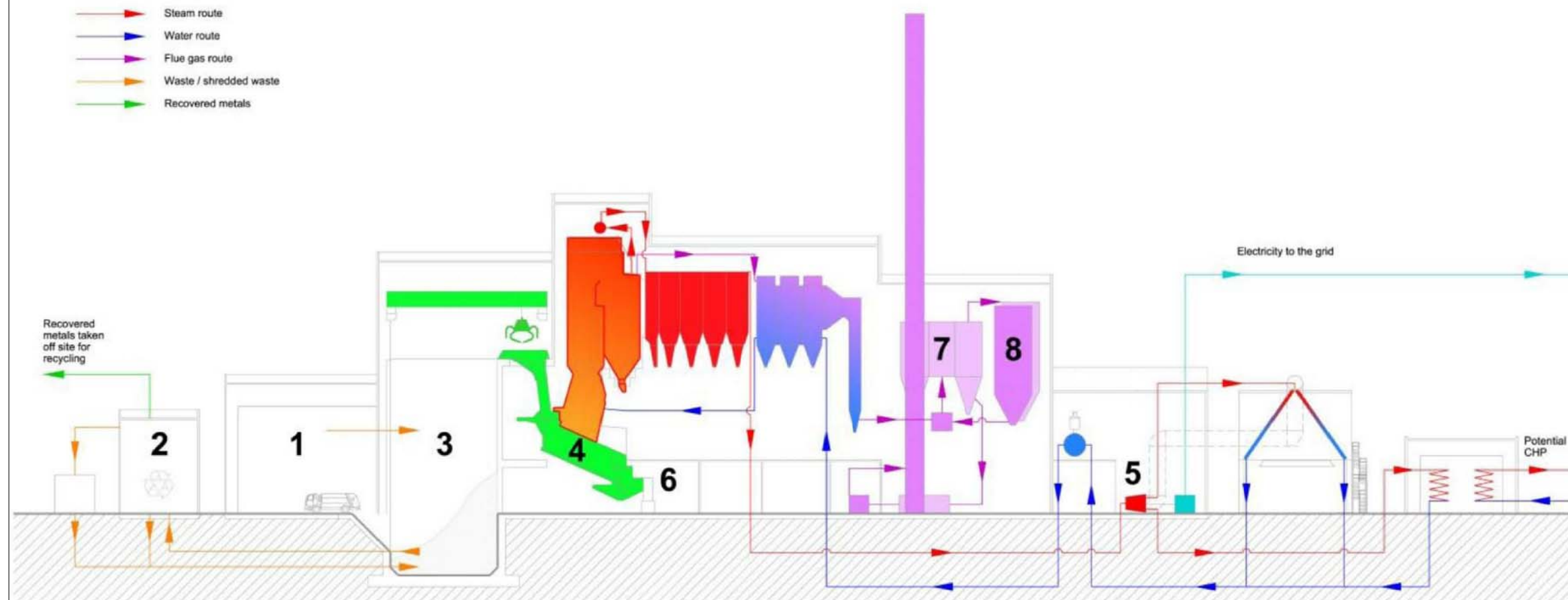


# Millerhill Recycling and Energy Recovery Centre - Process Diagram



- 1.** Residual waste is delivered to the site and deposited in the waste reception building, before being transferred by conveyor to the Mechanical Treatment Facility.
- 2.** Prior to combustion, the residual waste is processed to remove metals for recycling with the remaining waste being processed into a Solid Recovered Fuel (SRF)
- 3.** The SRF then goes along a conveyor to a Bunker where it is mixed with other SRF delivered directly to the Centre.
- 4.** Using proven Energy from Waste technology, the Solid Recovered Fuel is combusted in a furnace under controlled conditions at a high temperature to generate heat.

- 5.** This heat is then used to drive a steam turbine which generates electricity. At this point, hot water and steam can also be extracted from the process and exported for heat use or converted for cooling through heat exchangers.
- 6.** Bottom ash is produced which will be exported from the site. This material will then be processed and used as an aggregate in the local construction market.
- 7.** The gases produced in the Centre are thoroughly cleaned and monitored. As required and controlled by the Scottish Environment Protection Agency (SEPA).
- 8.** The pollution control systems use lime to clean the gases which is removed as air pollution control residues and transported in sealed containers from the site to a specialist treatment facility.

MILLERHILL RECYCLING AND  
ENERGY RECOVERY CENTRE

Figure 4

Schematic Process Flow Diagram

Scale  
N/a

Date  
March 2015