

Appendix 2

Estimated energy consumption per cremation.

These calculations are based on government emission factors for various fuels. It is recommended that further work will be required to provide more detailed information on energy consumption and local position.

Electricity Cremators

Only electricity is used to operate the units.

15 kWh per hour for three cremations a day gives 2520 kWh for 15 cremations a week or 360 kWh for three cremations (24 hours)

Therefore 120 to 168 kWh per cremation

At 16p/kWh cost is £19 to £27 per cremation

If more than three cremations can be processed a day (more than in brochure) then the calculation would change

Electricity unit cost is currently higher than gas. However, this is likely to change in the future.

Gas

Estimated 256 kWh consumption per cremation

At 4p/kWh cost is £10 per cremation

Emissions

Emission factors:

Gas 0.2 kg/kWh CO₂ and 0.00011 kg/kWh of N₂O (nitrogen dioxide)

Electrical: 0.255 kg/kWh CO₂ and 0.0014 kg/kWh of N₂O

Gas

51 kg CO₂ and 28g/kWh NO₂

Electricity

31 – 43 kg/kWh CO₂ and 170 – 240 g/kWh NO₂

Levels of NO₂ for electrical are not local pollution and are based on government guidance on electrical generation.