

Document B2.7.5 Environmental Risk Assessment H1 annex (h) – Global warming potential

Table 1 -Greenhouse gas emissions (direct releases)

Energy source	Annual delivered mWh	Primary conversion factor	Annual primary mWh	Carbon dioxide emission factor t/mWh	Carbon dioxide emissions tonnes
Natural gas for combustion activities Apr-09 to Mar-10	8,356	1	8,356	0.190	1,588

Table 2 -Greenhouse gas emissions (indirect releases)

Energy source	Annual Delivered mWh	Primary conversion factor	Annual primary mWh	Carbon dioxide emission factor t/mWh	Carbon dioxide emissions tonnes
Electricity from public supply Apr-09 to Mar-10	8,858	2.4	21,259	0.166	3,529

Table 3 – Net global warming potential of emissions relative to CO₂ over 100 years

Emissions	Emission tonnes	Global warming potential	Net global warming potential
Carbon dioxide from direct releases Apr-09 to Mar-10	1,588	1	1,588
Carbon dioxide from indirect releases Apr-09 to Mar-10	3,529	1	3,529
HCFC-22 fugitive releases Nov-09 to Oct-10	0.525	1700	893
total			6,010

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Notes

- a) Operators continue to improve energy efficiency (MWh/tonne), in line with both parent holding's policies to reduce carbon emissions.
- b) The Carbon Trust continues to be used for measuring carbon footprint (tCO₂e/tonne product) and progress towards meeting targets.
- c) The Carbon Trust provided an initial assessment of actions to save carbon and reduce the overall energy spend in April 2006.
- d) Installation of replacement packaged boilers for raising steam for cooking planned in early 2011. The equipment is eligible for enhanced capital allowance on the basis of meeting energy-saving criteria and inclusion in the Energy Technology List managed by the Carbon Trust.
- e) Whole of the installation is covered by a climate change agreement (Facility number FDF/00483/737).