



# Approved Environmental Profile

Characterised and Normalised Data for 1 tonne of:

## Furnace Bottom Ash - 2007 Data

### Quality of Data for Profiled Material (Data for other constituent materials are available from BRE)

Start Date	01 January 2006
End Date	31 December 2006
Source of Data	UKQAA
Geography	UK
Representativeness	100% of Industry
LCA Methodology	BRE Environmental Profiles 2007
Allocation	100% to Product
Date of Data Entry	01 August 2007
Boundary	Cradle to Gate
Comments	

Issue	Characterised Data	Unit
Global Warming (GWP100)	140	kg CO <sub>2</sub> eq. (100yr)
Water Extraction	1.3	m <sup>3</sup>
Minerals Extraction	0.0011	tonnes
Ozone Depletion	0.0000095	kg CFC11 eq.
Human Toxicity	19	kg 1,4-DB eq.
Freshwater Aquatic Toxicity	3	kg 1,4-DB eq.
Nuclear Waste	0.000000017	m <sup>3</sup> high level waste
Terrestrial Ecotoxicity	0.18	kg 1,4-DB eq.
Waste Disposal	2.2E-10	kg
Fossil Fuel Depletion	2400	MJ
Eutrophication	0.04	kg PO <sub>4</sub> eq.
Photochemical Oxidation	0.028	kg ethene eq.
Acid Deposition	0.67	kg SO <sub>2</sub> eq.

Issue	Normalised Data	Western European Citizen's Impacts
Global Warming (GWP100)	0.012	12300 kg CO <sub>2</sub> eq. (100yr)
Water Extraction	0.0034	378 m <sup>3</sup>
Minerals Extraction	0.000044	24.4 tonnes
Ozone Depletion	0.000044	0.217 kg CFC11 eq.
Human Toxicity	0.00098	19700 kg 1,4-DB eq.
Freshwater Aquatic Toxicity	0.0023	1320 kg 1,4-DB eq.
Nuclear Waste	0.00073	2.37E-05 m <sup>3</sup> high level waste
Terrestrial Ecotoxicity	0.0015	123 kg 1,4-DB eq.
Waste Disposal	5.8E-14	3750 kg
Fossil Fuel Depletion	0.0089	273 GJ
Eutrophication	0.0012	32.5 kg PO <sub>4</sub> eq.
Photochemical Oxidation	0.0013	21.5 kg ethene eq.
Acid Deposition	0.0094	71.2 kg SO <sub>2</sub> eq.

<b>BRE Ecopoints Score</b>	<b>0.37</b>	<b>Ecopoints</b>
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# Approved Environmental Profile

Characterised and Normalised Data for 1 tonne of:

## Pulverised Fuel Ash - 2007 Data

### Quality of Data for Profiled Material (Data for other constituent materials are available from BRE)

Start Date	01 January 2006
End Date	31 December 2006
Source of Data	UKQAA
Geography	UK
Representativeness	100% of Industry
LCA Methodology	BRE Environmental Profiles 2007
Allocation	100% to Product
Date of Data Entry	01 August 2007
Boundary	Cradle to Gate
Comments	

Issue	Characterised Data	Unit
Global Warming (GWP100)	25	kg CO <sub>2</sub> eq. (100yr)
Water Extraction	0.23	m <sup>3</sup>
Minerals Extraction	0.00019	tonnes
Ozone Depletion	0.0000017	kg CFC11 eq.
Human Toxicity	3.4	kg 1,4-DB eq.
Freshwater Aquatic Toxicity	0.54	kg 1,4-DB eq.
Nuclear Waste	3.1E-09	m <sup>3</sup> high level waste
Terrestrial Ecotoxicity	0.032	kg 1,4-DB eq.
Waste Disposal	3.9E-11	kg
Fossil Fuel Depletion	430	MJ
Eutrophication	0.007	kg PO <sub>4</sub> eq.
Photochemical Oxidation	0.0049	kg ethene eq.
Acid Deposition	0.12	kg SO <sub>2</sub> eq.

Issue	Normalised Data	Western European Citizen's Impacts
Global Warming (GWP100)	0.0021	12300 kg CO <sub>2</sub> eq. (100yr)
Water Extraction	0.00061	378 m <sup>3</sup>
Minerals Extraction	0.0000078	24.4 tonnes
Ozone Depletion	0.0000077	0.217 kg CFC11 eq.
Human Toxicity	0.00017	19700 kg 1,4-DB eq.
Freshwater Aquatic Toxicity	0.00041	1320 kg 1,4-DB eq.
Nuclear Waste	0.00013	2.37E-05 m <sup>3</sup> high level waste
Terrestrial Ecotoxicity	0.00026	123 kg 1,4-DB eq.
Waste Disposal	1E-14	3750 kg
Fossil Fuel Depletion	0.0016	273 GJ
Eutrophication	0.00022	32.5 kg PO <sub>4</sub> eq.
Photochemical Oxidation	0.00023	21.5 kg ethene eq.
Acid Deposition	0.0017	71.2 kg SO <sub>2</sub> eq.

<b>BRE Ecopoints Score</b>	<b>0.066</b>	<b>Ecopoints</b>
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