

## Glass LCI Dataset

**Functional unit: 1000 kg molten emerald glass**

<b>1 Material Inputs</b>		<b>Unit</b>
<b>Main material inputs</b>		
Dredged sand	1.07E+02	kg
Crushed Quartz	2.48E+02	kg
Limestone	1.02E+02	kg
Soda Ash	1.17E+02	kg
Syenite	2.70E+01	kg
Saltcake	4.00E+00	kg
Cullet	4.87E+02	kg
Carbocite	2.20E-01	kg
Detergent	3.00E-02	kg
Iron Chromite	2.38E+00	kg
<b>Land use</b>		
<b>Primary ancillary materials</b>		

<b>2 Energy</b>		<b>Unit</b>
Total	1.17E+04	MJ
Process - Nonelectric	8.23E+03	MJ
Process - Electric	2.76E+03	MJ
Transportation	6.61E+02	MJ
Feedstock	1.30E+01	MJ
Non-Fossil Energy	1.51E+03	MJ
Fossil Energy	1.01E+04	MJ
Coal	6.15E+02	MJ
Petroleum	3.72E+03	MJ
Natural gas	5.26E+03	MJ
Nuclear	5.42E+02	MJ
Feedstock	1.30E+01	MJ

<b>3 Water Use</b>		<b>Unit</b>
Total water	9.16E+02	L
Fuel related water	5.90E+01	L
Process related water	8.57E+02	L

<b>4 Emissions to Air</b>		<b>Unit</b>
Carbon dioxide	5.84E+02	kg
CO2 fossil fuel		
CO2 biomass		
Carbon monoxide	2.72E+02	kg
Sulphur oxides (reported as SO2)	4.79E+00	kg
Nitrogen oxides (reported as NO2)	2.31E+00	kg
Methane	1.19E+00	kg
Dust & particles (includes metals) (1)	1.29E+00	kg
Acid gases	7.15E-02	kg
NMHC (non-methane hydrocarbons)	2.65E-01	kg
VOC		
Hydrocarbons (unspecified)		
Nitrogen		
Other organic compounds		
Other		

<b>5 Emissions to Water</b>		<b>Unit</b>
Phosphates and ammonia	1.20E-03	kg
Oils and greases	1.36E-02	kg
Suspended solids	1.08E-01	kg
Other organics	1.19E-05	kg
Other		
Hydrocarbons		
Metals		
Heavy Metals	2.86E-01	kg
Acids		
BOD	2.37E-02	kg
COD	2.00E-01	kg
Salinity		
Dissolved solids	2.83E+00	kg

<b>6 Wastes</b>		<b>Unit</b>
Total waste	1.92E+02	kg
Process related wastes	1.92E+02	kg
Municipal wastes	4.70E-01	kg
Emissions to Land		
RCRA D		
RCRA C		
Emissions to Deepwell		
RCRA D		
RCRA C		

Footnotes

(1) Total of Particulate Matter and Lead.