

Polyflor China – Green House Gas (GHG) Emissions 2019

Direct GHG ‘emissions from sources that are owned or controlled by the organization’, such as:

- **Stationary Combustion:** from the combustion of fossil fuels (e.g. natural gas, fuel oil, propane, etc.) for comfort heating or other industrial applications.
- **Mobile Combustion:** from the combustion of fossil fuels (e.g. gasoline, diesel) used in the operation of vehicles or other forms of mobile transportation.
- **Process Emissions:** emissions released during the manufacturing process in specific industry sectors (e.g. cement, iron and steel, ammonia).
- **Fugitive Emissions:** unintentional release of GHG from sources including refrigerant systems and natural gas distribution.

Diesel

Fuel	Unit	Kg CO ₂ e ^[1]
Diesel (100% mineral diesel)	tonnes	3,205.55
	litres	2.68697
	kWh (Net CV)	0.26880
	kWh (Gross CV)	0.25267

Diesel used (Fleet) = 23.03 tonnes = 73.85 tonnes CO₂

Energy Indirect GHG ‘emissions from the consumption of purchased electricity, steam, or other sources of energy (e.g. chilled water) generated upstream from the organization’.

Electricity

Activity	Country	Unit	Year	Kg CO ₂ e ^[2]
Electricity generation	Electricity: China	kWh	2019	0.555

Electricity used = 6,341,473.76 kWh = 3519.52 tonnes CO₂

Steam

Activity	Fuel Source	Unit	Year	Kg CO ₂ e ^[1]
Steam Production	Natural gas (100% mineral blend)	cubic metres	2019	2.03693
	Biofuel: plank husks	Tonnes	2019	33.06449

Steam production (natural gas) = 2514083.64 m³ = 5104.92 tonnes CO₂

Steam production (plank husks) = 736.42 tonnes = 24.35 tonnes CO₂

Direct GHG Totals = 73.85 Tonnes CO₂

Energy Indirect GHG Total = 8648.79 Tonnes CO₂

Date of Issue: 31/01/2022

^[1] Department for Environment Food & Rural Affairs (2020, July 28). *Conversion factors 2019: full set (for advanced users)*. Retrieved from: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/904213/conversion-factors-2019-full-set-v01-02.xls

^[2] Carbon Footprint Ltd (2020, July). *Country Specific Electricity Grid Greenhouse Gas Emission Factors*. Retrieved from: https://www.carbonfootprint.com/docs/2020_07_emissions_factors_sources_for_2020_electricity_v1_3.pdf