

Polyflor China – Green House Gas (GHG) Emissions 2021

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	3,208.76
	litres	2.70553
	kWh (Net CV)	0.26955
	kWh (Gross CV)	0.25338

Diesel used (Fleet) = 0.0183 kgCO₂e/m²

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	2020	0.5374

Electricity used = 0.9533 kgCO₂e/m²

Steam

Activity	Fuel Source	Unit	Year	Kg CO ₂ e ^[1]
Steam Production	Natural gas (100% mineral blend)	cubic metres	2021	2.02135

Steam production = 1.6437 kgCO₂e/m²

Direct GHG Totals = 0.0183 kgCO₂e/m²

Energy Indirect GHG Total = 2.5970 kgCO₂e/m²

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^[1] Department for Environment Food & Rural Affairs (2022, January 24). *Conversion factors 2021: full set (for advanced users)*. Retrieved from: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1049333/conversion-factors-2021-full-set-advanced-users.xlsm

^[2] Carbon Footprint Ltd (2022, March). *Country Specific Electricity Grid Greenhouse Gas Emission Factors*. Retrieved from: https://www.carbonfootprint.com/docs/2022_03_emissions_factors_sources_for_2021_electricity_v11.pdf