

Polyflor China – Green House Gas (GHG) Emissions 2018

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	3,206.62
	litres	2.68787
	kWh (Net CV)	0.26891
	kWh (Gross CV)	0.25278

Diesel used (Fleet) = 18.13 tonnes = 58.15 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	2018	0.555

Electricity used = 5414194 kWh = 3004.88 tonnes CO₂

Steam

Activity	Fuel Source	Unit	Year	Kg CO ₂ e ^[1]
Steam Production	Biofuel: plank husks	Tonnes	2018	60.95408

Steam production = 5156.24 tonnes = 314.29 tonnes CO₂

Direct GHG Totals = 58.15 Tonnes CO₂

Energy Indirect GHG Total = 3,319.17 Tonnes CO₂

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^[1] Department for Environment Food & Rural Affairs (2020, June 09). *Conversion factors 2020: full set (for advanced users)*. Retrieved from: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/891106/Conversion_Factors_2020_-_Full_set_for_advanced_users_.xlsx

^[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