



## Greenhouse Gas Protocol

The Scope 1, 2 and 3 system was developed by the **Greenhouse Gas Protocol**. There are different categories of greenhouse gas (**GHG**) emissions and businesses and organizations are under pressure to reduce them. The Scopes system supports the measurement of progress in the reduction of GHG emissions and ultimately climate change (**global warming**).

The „**Global Warming Potential**“ (**GWP**) system was developed to allow comparisons of the global warming impacts of various GHGs, e.g. methane (CH<sub>4</sub>) and nitrous oxide (N<sub>2</sub>O) alongside carbon dioxide (CO<sub>2</sub>). Since CO<sub>2</sub> accounts for more than 75% of all GHG emissions, its global warming potential is used as a reference for all other GHGs and has a GWP value of 1.

The GWP of Scope 1, 2 and 3 GHG emissions are therefore expressed as **equivalent** to the GWP of one metric ton of CO<sub>2</sub> and is expressed as **CO<sub>2</sub>e**.

### Scope 1

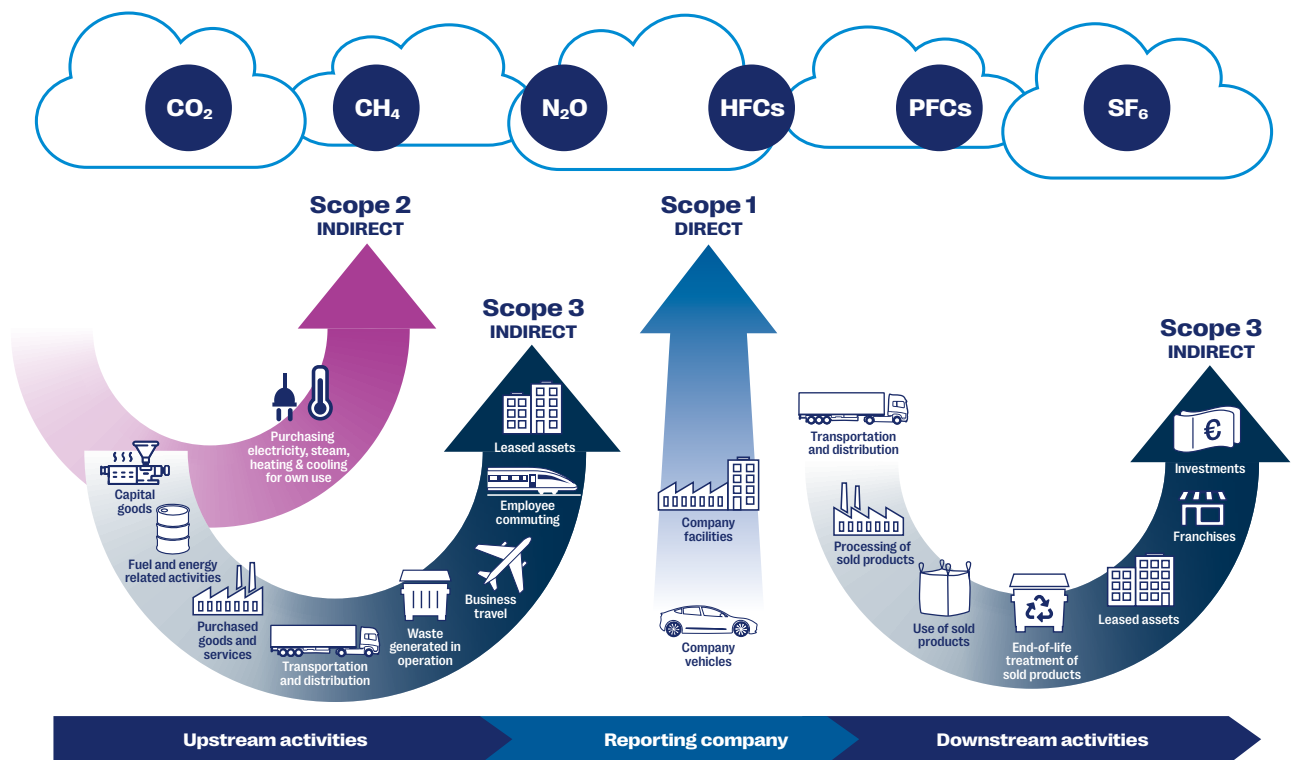
covers „direct“ emissions from company-owned and operated resources and equipment, e.g. running boilers, production lines or combustion engine vehicles

### Scope 2

are „indirect“ emissions resulting from the purchase and consumption of energy, e.g. heating, cooling and electricity.

### Scope 3

encompasses emissions generated by upstream and downstream activities i.e. not directly at the company, e.g. emissions that result from sourcing products from suppliers, emissions from its products when customers use them or emissions from business activities such as goods transportation and business travel.



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