

# CO<sub>2</sub>-Report 2024

## 1. CO<sub>2</sub> Balance Sheet of PRIMES GmbH

### 1.1. Base year

The emissions were recorded for the period from January 1<sup>st</sup>, 2024 to December 31<sup>st</sup>, 2024.  
The carbon footprint for 2023 was without coronavirus-related restrictions compared to previous years, which is why 2023 will be used as the base year for this report.

### 1.2. Location

Pfungstadt (Germany)  
PRIMES has 2 company buildings on this site. Both are included in the calculation.

### 1.3. Scope

This CO<sub>2</sub> report takes emissions from the following sources into account:

- Heating,
- Electricity consumption (minus the electricity generated by our own solar systems),
- Business travel,
- Company cars (business use)

Most of the cooling systems for the LASERs and the heating and cooling of the building is provided by two cisterns outside the building in combination with a heat pump and concrete core activation of the ceilings. The remaining heating requirements are covered by gas heating. The consumption for additional air conditioning systems is included in as power consumption.

With the exception of business trips, emissions from the upstream and downstream value chain are not included in the balance sheet, as PRIMES has no direct influence on them.

### 1.4. Data sources

The data for the preparation of the balance sheet was determined or estimated from the gas and electricity invoices, business trip bookings and the mileage of company cars. The calculation factors for air/bus/rail transport were derived from data from the Federal Environment Agency ([www.probas.umweltbundesamt.de/einblick/](http://www.probas.umweltbundesamt.de/einblick/)).

## 2. CO<sub>2</sub> Calculations

Typ	amount	factor	Total, kg CO <sub>2</sub>	Comparison to reference year
Heating (gas)	894 m <sup>3</sup>	2,0 kg CO <sub>2</sub> /m <sup>3</sup>	1.788	-52%
Power usage	196.616 kWh	0,405 kg CO <sub>2</sub> /kWh	79.629	+4%
Power generation (photovoltaic)	-218.394 kWh	0.405 kg CO <sub>2</sub> /kWh	-88.450	+4%
Business trips by air	220.299 km	0,117 kg/Person*km	25.775	-12%
Business trips by car	97.670 km	Car specific	14.080	+5%
Total			33.552	-12%

### 3. Summery

We offset around 72% of emissions with our own electricity generation from solar systems.

PRIMES GmbH had a total of 131 employees (including trainees) as at the reporting date of 31.12.2024.

We had emissions of less than 258 kg CO<sub>2</sub>/year per employee. On average, every German emits over 10,500 kg of CO<sub>2</sub> per year.

The CO<sub>2</sub> balance for 2023 is the base year for this report. Travel activities in sales have returned to normal after coronavirus. The higher electricity consumption is mainly due to increased production and the switch from gas to heat exchange pumps as the main heat supplier.

It is expected that the CO<sub>2</sub> emission value in the mobility sector will remain approximately the same in 2024 and that the overall value will continue to fall due to newly installed photovoltaic systems.

### 4. Goals for 2025

- Reduction of CO<sub>2</sub> emissions by optimizing business trips
- Reduction in electricity consumption through targeted switching off night time consumers.
- Reduction of reactive current by revising the device infrastructure