Environmental Performance Report 2021

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1 Introduction

The scope of this report is related on the German IGEL locations in Augsburg and Bremen. Both locations have a significant responsibility for the design and manufacture of IGEL products. The following environmental aspects will be addressed in this report:

- Water use (SDG 6)
- Energy use (SDG 7)
- Scope 1 and Scope 2 greenhouse gas emissions (SDG 13)

All of them are related on the sustainable development goals (SDGs[1], see title page) and the IGEL Code of Ethics.[2]

The environmental data for each of these aspects have been assured by the independent third-party ISO 9001 and ISO 14001 audits in October 2022 (verification of the IGEL Integrated Management System for Quality and Environment).

2 Environmental Performance

2.1 Water Use (SDG 6)

2.1.1 Augsburg

After a decrease from 2016 to 2017 the consumption has been increased in 2018 due to higher number of employees (see Figure 1). Due the increased mobile office use caused by the Corona pandemic in 2020 and 2021 there was a stronger reduction of water consumption.

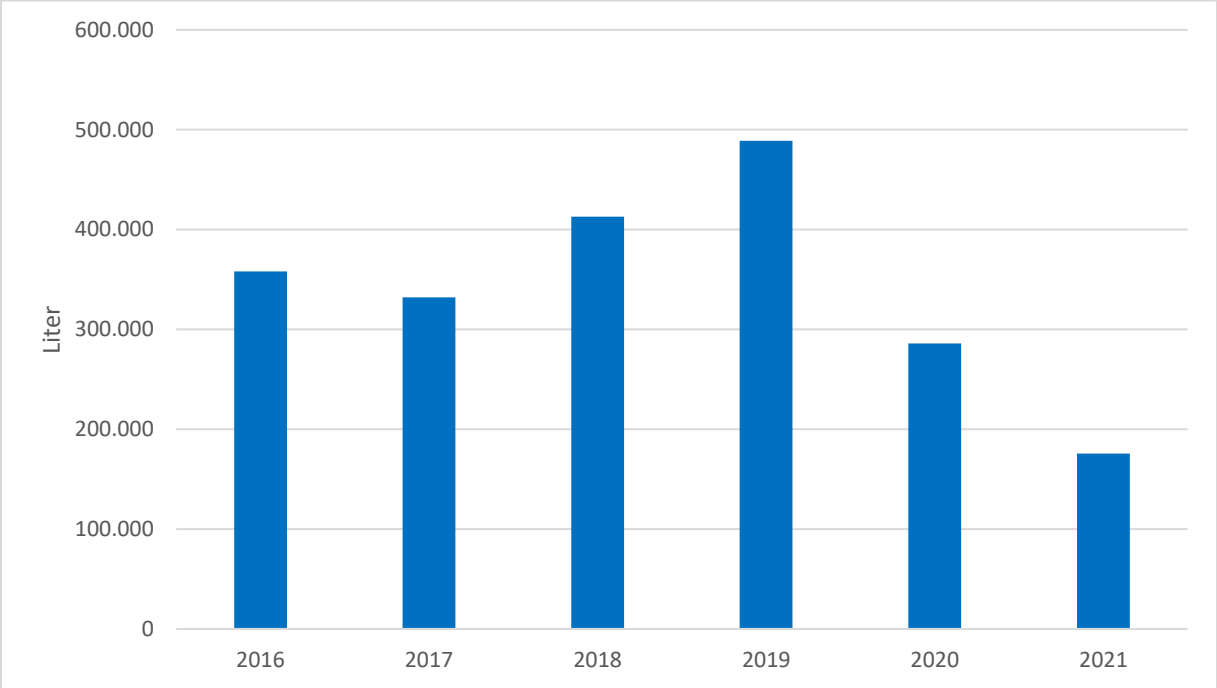

Figure 1: Water consumption Augsburg

[1] https://sdgs.un.org/goals
[2] https://www.igel.com/company/vision

2.1.2 Bremen

Like in Augsburg the strong reduction of water use was caused by the mobile office use in 2020 and 2021. Additionally, the production and warehouse facilities in Bremen had been closed in 2021.

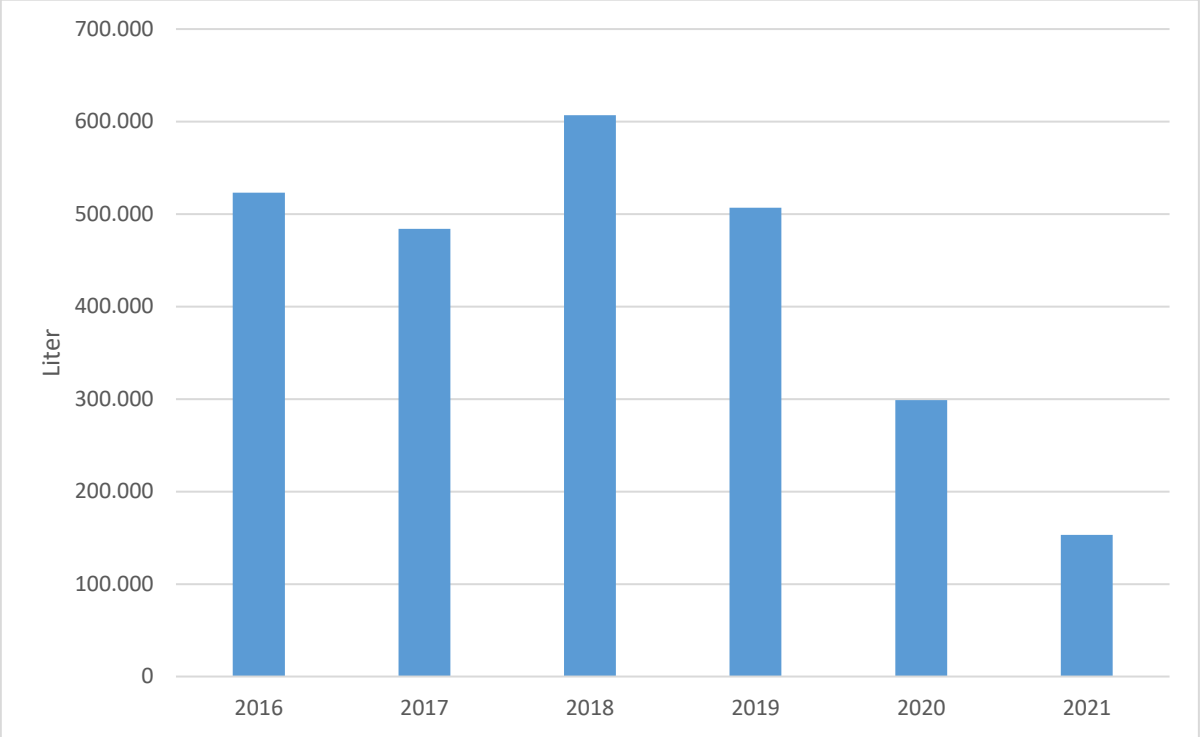

Figure 2: Water consumption Bremen

2.2 Energy Use (SDG 7)

2.2.1 Augsburg

The total energy use has increased since 2016 slightly. This is mainly due to the extension of the Research & Development part and computing power needed for development tasks. In 2021 there is an increase of heating energy due to the lower yearly average temperature (2020: 6,7°C / 2021: 5,3°C).

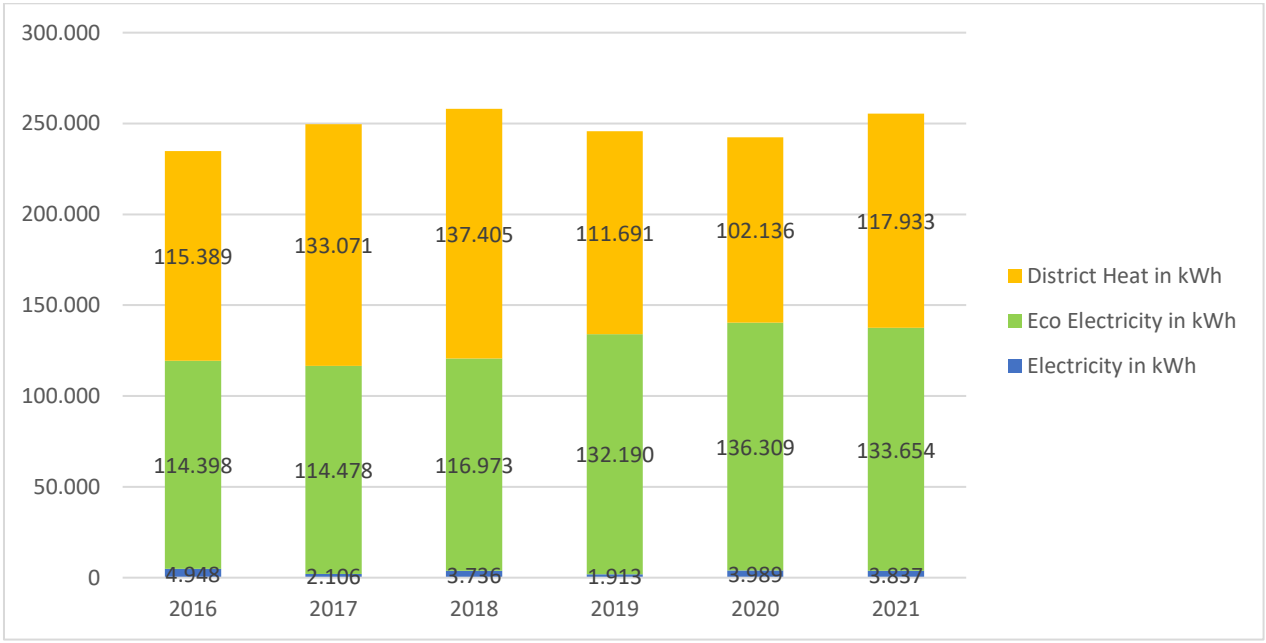

Figure 3: Total Energy Use Augsburg

2.2.2 Bremen

In 2021 has moved to a new location and stopped the shipment of hardware. That's the reason why the electric energy consumption has declined. The heating has increased because the new building is heated completely with district heat (powered by gas). The old building had heating pumps powered by eco electricity.

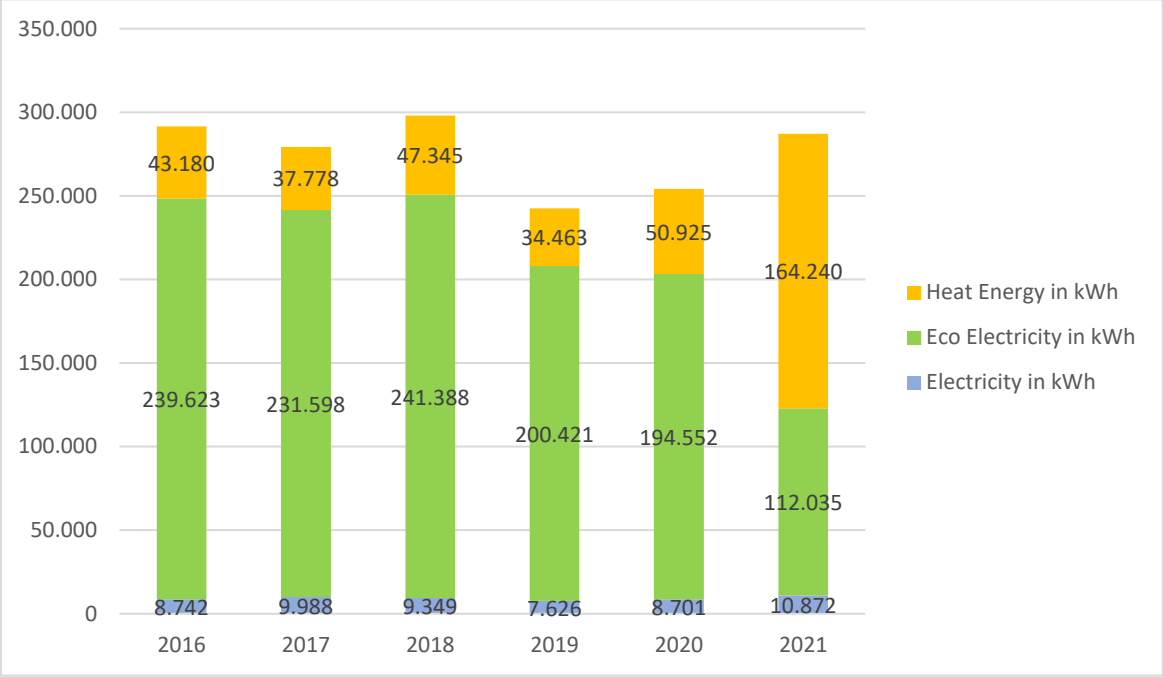

Figure 4: Total Energy Use Bremen

2.3 Air Emission (SDG 13)

2.3.1 Green-House-Gas (GHG) Scopes

Figure 5 gives an overview of GHG Protocol scopes and emissions across the value chain. This will be addressed in the following GHG emission assessment of the locations in Augsburg and Bremen.

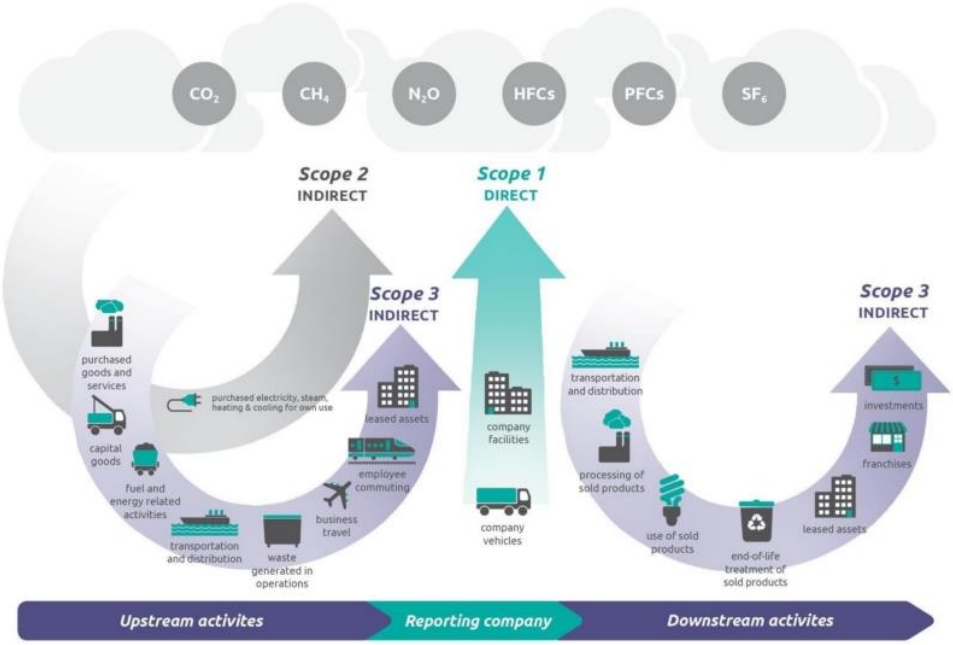

Figure 5: Overview of GHG Protocol scopes and emissions across the value chain (Source: GHG Protocol[3])

[3] https://www.ghgprotocol.org/sites/default/files/ghgp/standards/Scope3_Calculation_Guidance_0.pdf

2.3.2 Augsburg

Until 2020 District heat (Fernwärme) for heating the building has the main impact on the GHG emissions in Augsburg. Due to another calculation basis of the district heat provider the emissions have been reduced on zero. Therefore, Electricity has the main impact of the office building since 2021. Other emissions (like Waste) are in lower level and have decreased since 2019. Due to a strongly reduced emission factor[4] for Drink and Wastewater the emission reduction (74 kg CO_2) is lower than the water consumption reduction.

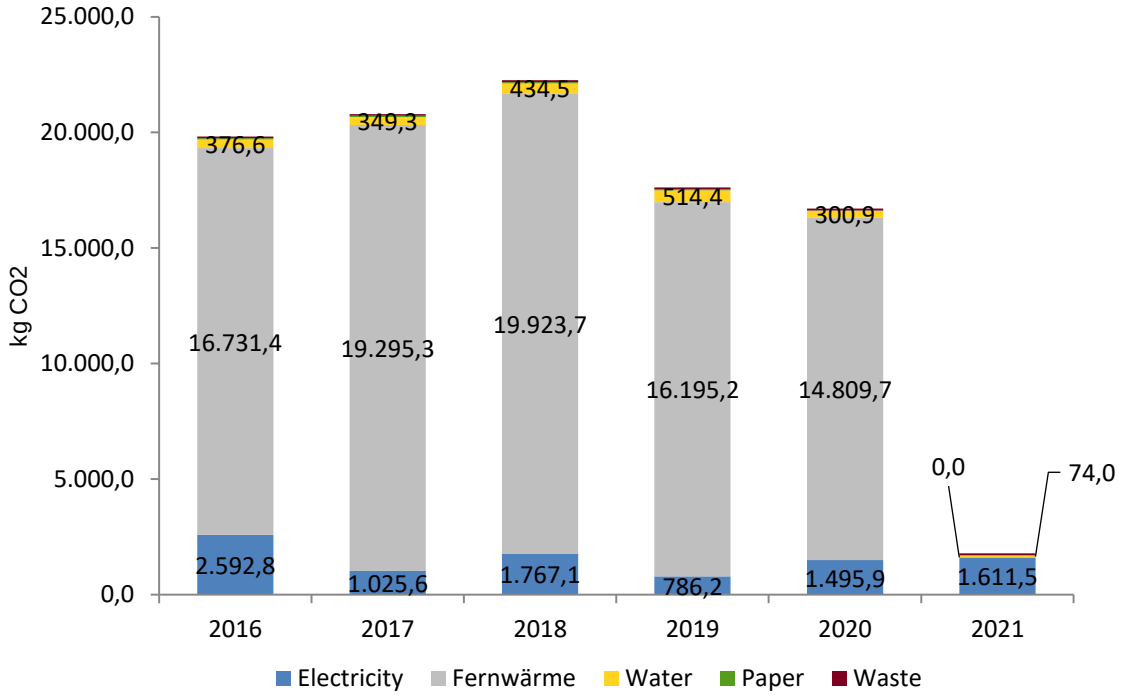

Figure 6: Scope 1, 2 GHG Emissions Augsburg Office

2.3.3 Bremen

Like in Augsburg mainly eco electricity is in use (carbon neutral). That's the reason for the low GHG rate in relationship to Gas. Beside electricity other emissions were reduced from 2020 to 2021. Main reason for this reduction was the office move and the pandemic situation with an increased use of mobile work.

[4] https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting

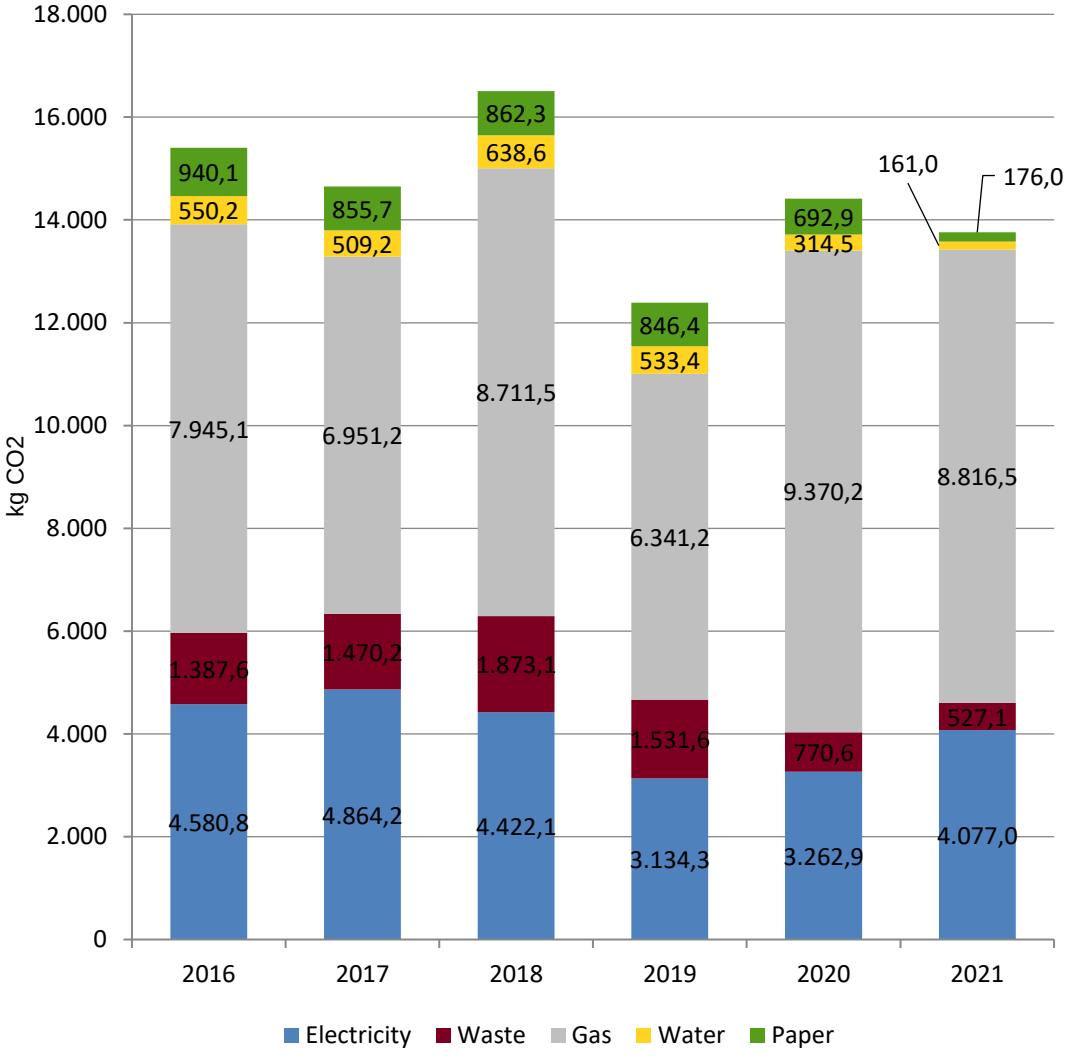

Figure 7: Scope 1, 2 GHG Emissions Bremen Office & Production

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