



Environmental Performance Report

IGEL Technology GmbH
Hanna-Kunath-Str. 31
28199 Bremen, Germany

Bremen, 10/03/2017

1 Introduction

This report is based on the first three reporting requirements of the U.S. EPA National Environmental Performance Track program¹ and has a focus on our location in Bremen (see Figure 1).



Figure 1: IGEL Technology Bremen

2 IGEL Environmental Management System (EMS)

2.1 Policy

Environmental and hence also climate protection concerns all aspects of our business activities, including the development and manufacturing of our products, delivering of services, the design of our workflows as well as the awareness of our company's larger social responsibility.

Energy conservation is no less than preventive, proactive environmental protection. At IGEL, we ensure that our company's activities always minimize our environmental impact. Accordingly, we are committed to creating excellent, high-quality products and services in a safe, cost-effective and environmentally friendly manner.

2.2 Planning

We make sure that we employ processes that stress a green approach, beginning with research and development, procurement and production, then throughout the service lives of our products and continuing on down to their final recycling and ultimate disposal. In this respect, our goal is to keep our environmental impact at an absolute minimum – even more than legally required – by applying a continuous improvement process. In manufacturing, our policy is to avoid accumulation of residual materials. However, should this be unavoidable, they are reused as much as possible as recyclable resources. Figure 2 shows our goals to meet our policy commitments and legal requirements.

2.3 Implementation and Operation

One of our management's top concerns is ensuring that practices promoting employee occupational health and safety as well as environmental protection are applied throughout the company's entire value-added chain. This means that providing decent, respectable and safe working conditions is a high priority for us throughout our international supply chain, and that also includes the initial production and supply of raw materials. Transparency, along with open internal and external lines of communication, make it easier for our company to promote environmental awareness and understanding among our employees as well as our customers and suppliers. Furthermore, it also helps to promote social acceptance of our products.

¹ <https://archive.epa.gov/performancectrack/web/html/index.html>

IGEL Quality & Environmental Goals

- ▶ Increasing the usability and internationalization of the IGEL Management System
- ▶ 5% reduction of CO2 emissions per year
- ▶ Climate neutrality by 2020 at the locations Bremen, Augsburg and Reading
- ▶ 5% reduction of paper and toner consumption per year
- ▶ Introduction and implementation of a unified business continuity plan (BCP)
- ▶ Increasing the resource efficiency



Figure 2: IGEL Quality & Environmental Goals

2.4 Checking and Corrective Action

All of our employees are fully committed to comply with all applicable legal requirements and voluntary commitments. At IGEL, producing the highest-quality products is our standard operating procedure. Our company, which is certified per ISO 9001 and ISO 14001, designs, develops, produces and markets software and hardware products. In doing so, we adhere to a quality, environmental, operational safety and health management program that involves all employees and is applied throughout all company areas and departments. The management system at IGEL undergoes regular external audits, a step that provides us with a regularly updated basis for measuring our continuous improvement.

2.5 Management Review

Our top management reviews the organization's quality and environmental management system on a yearly basis. This shall ensure its continuing suitability, adequacy and effectiveness. This review includes assessing opportunities for improvement and the need for changes to the quality and environmental management system, including the quality and environmental policy and the quality and environmental objectives.

This review is parted in review input (as-is situation) and review output (to-be situation). Main attention will be given on the following IGEL Quality & Environmental Goals (see Figure 2) and our future environmental commitments (see following chapter).

3 Environmental Performance and Commitment to Continuous Improvement

3.1 Past Achievements

3.1.1 Energy Use

In 2013 IGEL has started a program for improving the awareness of energy saving measurements (Green Transformation). Based on this program IGEL organized a climate protection day in 2014 for all employees (see Figure 3).



Figure 3: Climate Protection Day in Bremen

In 2015 IGEL has changed the illumination of the warehouse and production hall from metal halide lamps and neon tubes to LED lamps and tubes. Based on these measurements IGEL has reduced the total energy use until end of 2015 by 29 % (see Figure 4).

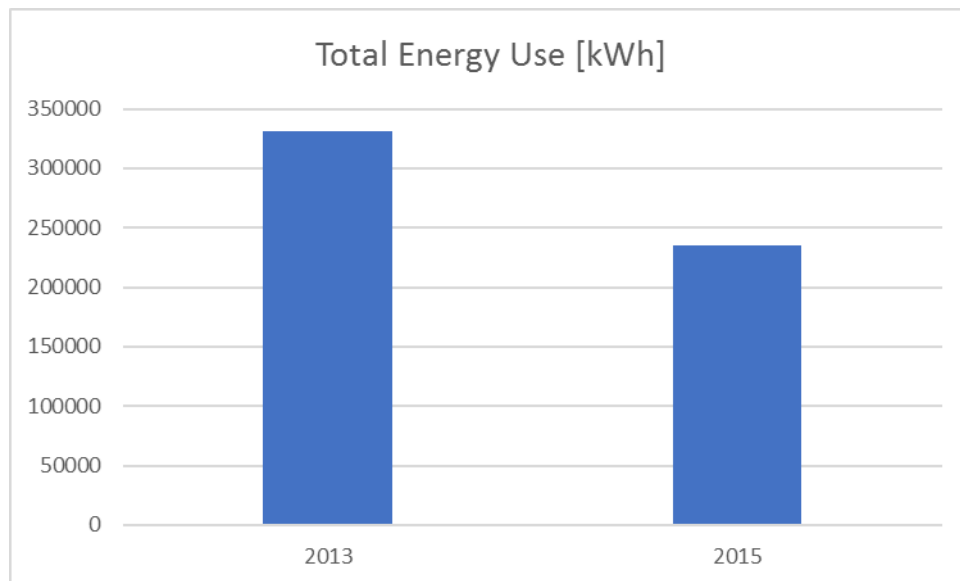


Figure 4: Reduction of Energy Use²

² Normalizing factor: Number of sold hardware units

3.1.2 Packing Material

In 2013 IGEL introduced the bulk packing (1 box for more than one Thin Client). This has reduced the packing material by 12 % (see Figure 5 for the German market).

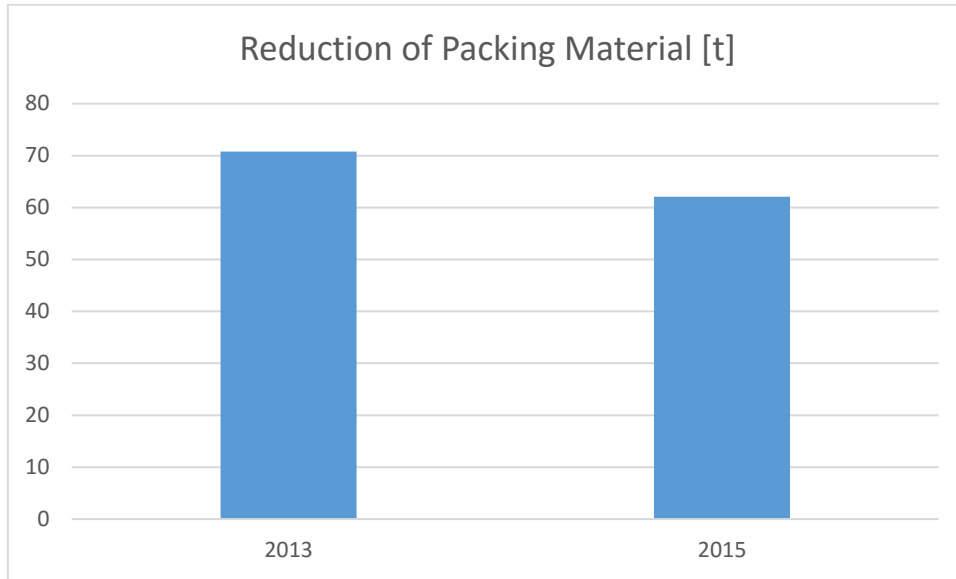


Figure 5: Reduction of packing material (German market)³

3.2 Future Commitments

3.2.1 Energy Use

IGEL plans a total (non-transportation) Energy Use reduction from 291.545 kWh in 2016 by 20 % until 2020 (233.236 kWh for the Bremen location, see Figure 6). This is an absolute goal (i.e., demonstrates improvement even if production increases).

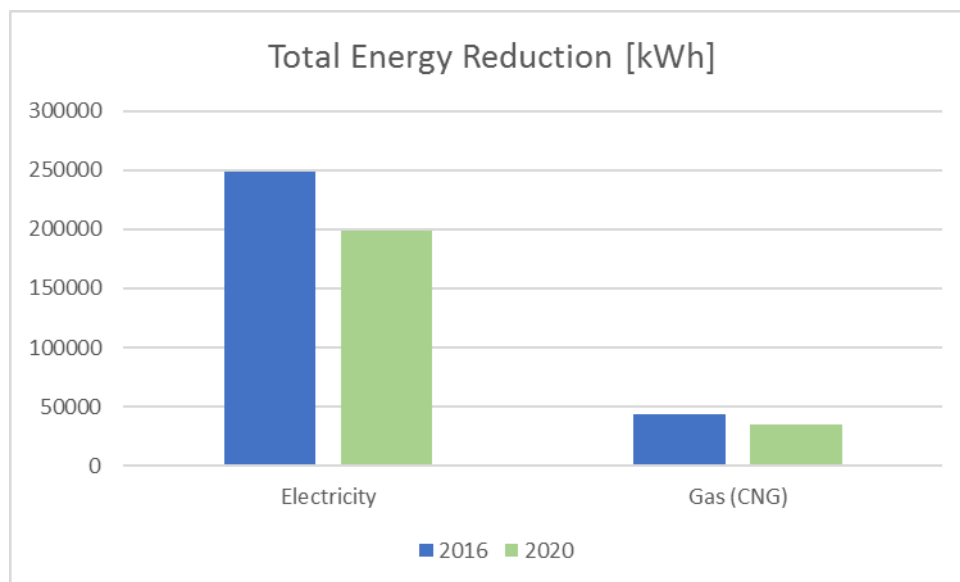


Figure 6: Reduction goal of total energy (non-transportation) in Bremen

The following activities are planned to undertake at our Bremen facility to accomplish our commitment:

- Additional Energy Measuring Points for an improved energy controlling

³ Normalizing factor: Number of sold hardware units in Germany

- Employee Training (including the usage of our Idea Management System)
- Reduction and switch off of control monitors
- Reduction of printers
- Usage of shared work places
- Monthly adjustment control of heating / cooling systems

3.2.2 Materials Use

One important goal in our environmental management system is the reduction use of printer paper and toner. In 2016 we have printed on 38.774 pages. Our goal is to reduce this until 2020 by 20% on 31.019 pages (see Figure 7). This goal is an normalized goal (depends on the number of sold hardware and software units).

The following activities and process changes are planned to undertake at our Bremen facility to accomplish our commitment:

- Reduce the number of printers
- Implementation of paperless processes
- Employee Training

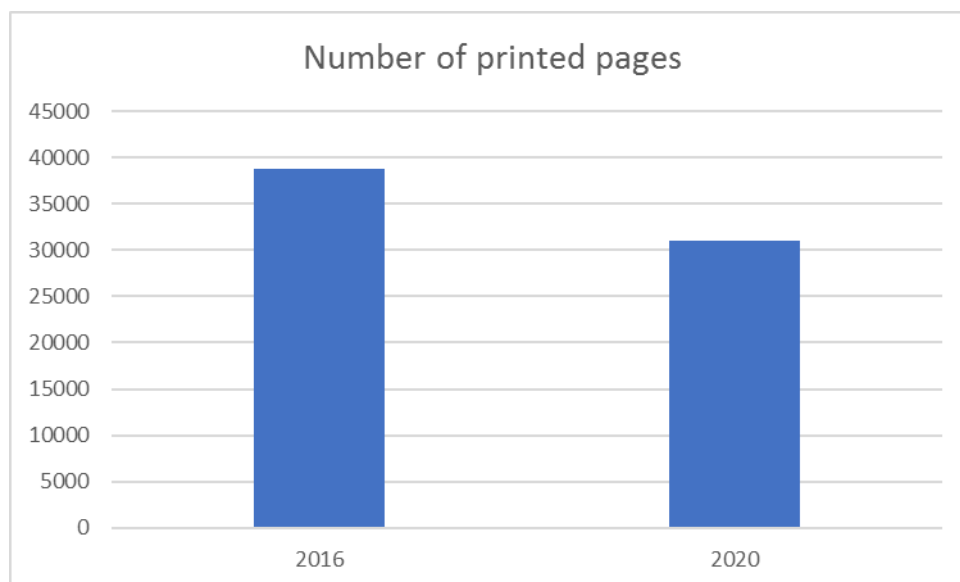


Figure 7: Reduction goal of printed pages in Bremen

3.2.3 Waste

Solid waste is one further significant aspect in our environmental management system. In 2016 we needed to dispose 57,2 m³ in total in our Bremen location. Our goal is the reduction by 20 % until 2020 (45,8 m³, see Figure 8). Like for the total energy reduction this is an absolute goal (i.e., demonstrates improvement even if production increases).

The following activities are planned to undertake at our Bremen facility to accomplish our commitment:

- Employee training
- Installation of a recycling station
- Better separation of recyclable fractions (e.g. glass)
- Promotion of our idea management system

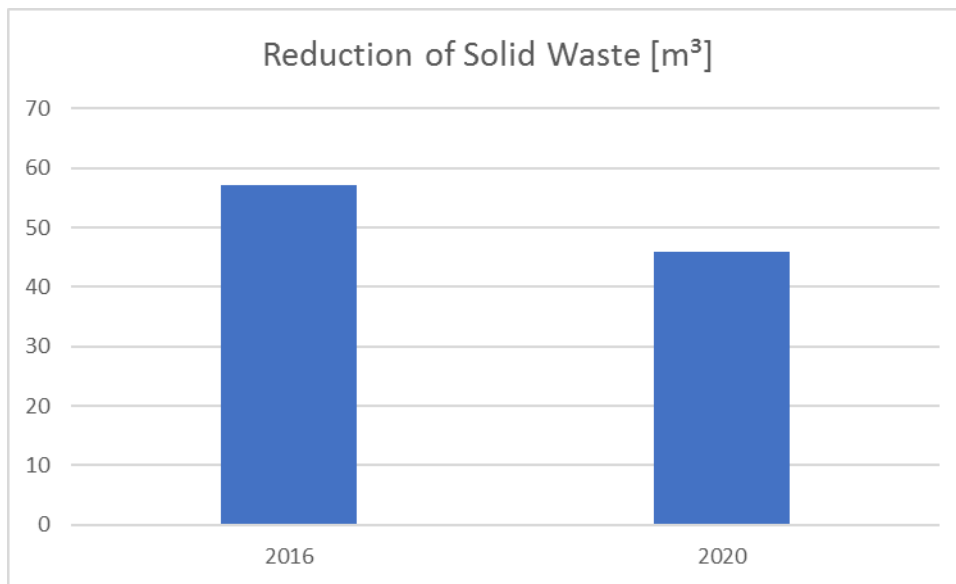


Figure 8: Reduction goal of Solid Waste until 2020 in Bremen

3.2.4 Air Emission

In 2013 the Bremen site had greenhouse gas emissions of 668 tons CO_{2e}. Figure 9 shows that around 75% of these emissions are related on mobility.

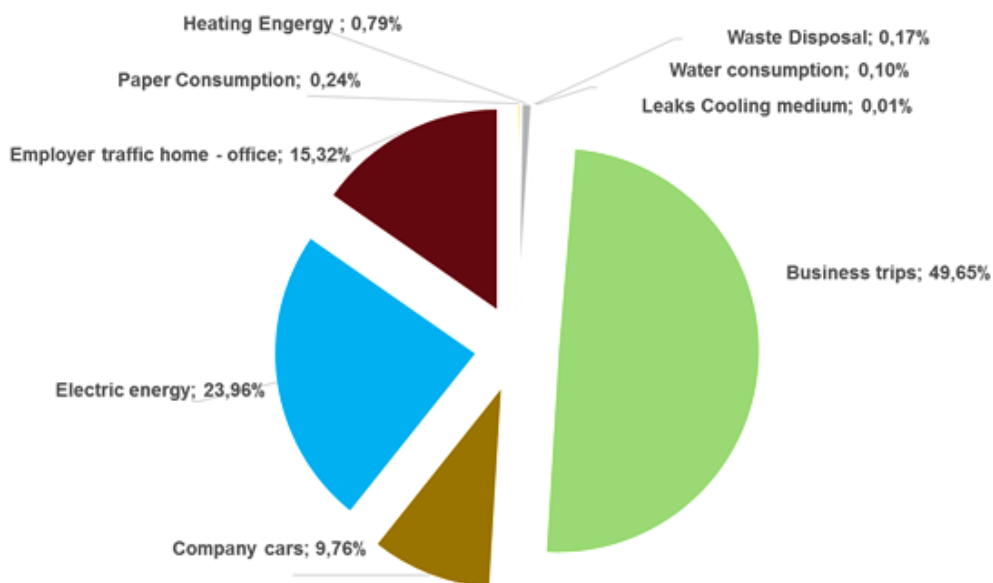


Figure 9: Emissions Bremen in 2013⁴

In 2020 IGEL will make its site in Bremen climate-neutral. This will apply to everything from the building to the fleet of vehicles and will be achieved with significant involvement on the part of all employees. A first start for reducing these emission has been done by using natural gas powered cars for the Bremen location. Further activities for promoting an eco-friendly mobility are planned:

- Bicycle Day in Bremen
- Eco Travel policy for the whole group

⁴ EWE CO₂-Check. Internal report, Bremen / Oldenburg 2014

- Car passenger information platform
- Usage of a third party CO2-check system for an external monitoring of our yearly achievements

4 Public Outreach and Performance Reporting

4.1 Respond to the community's environmental concerns

Based on our yearly environmental stakeholder analyses we are identifying the environmental concerns of our Bremen community. Due to our membership in a local company partner environmental network (puu – Partnerschaft Umwelt Unternehmen⁵) and Chamber of Commerce we identify and respond on the community's environmental concerns.

4.2 Information of community members

By publication in the local press and presentations in our local area we are communicating our environmental engagement.⁶ In 2017 plans a participation in company environmental weeks in Bremen (Figure 10).



Figure 10: Bremen Environmental Companies Partnership Motto 2017 (“We are active for the Environment”)

4.3 Reporting on the Facility EMS and Performance Commitments

This performance report will be updated on a yearly basis on our website. This will be accompanied by press releases and presentations in our public community and environmental networks:

- puu – Partnerschaft Unternehmen⁷
- CSR Hanse⁸
- Chamber of Commerce Bremen⁹

⁵ <http://www.umwelt-unternehmen.bremen.de>

⁶ <http://www.energiekonsens.de/partnerveranstaltung-die-revision-der-normen-din-en-iso-9001-und-din-en-iso-14001.html>

⁷ <http://www.umwelt-unternehmen.bremen.de>

⁸ http://umwelt-unternehmen.bremen.de/themen/corporate_social_responsibility/csr_hanse-9495

⁹ <https://www.handelskammer-bremen.de/innovation-umwelt>

Contact and further information:

Dr.-Ing. Martin Schnatmeyer
Quality & Environmental
Management Representative

+49 421 52094 1103

schnatmeyer@igel.com