



SCHLEIFENBAUER

Business operations ecological footprint



Environmental, Social en Governance

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1. About Schleifenbauer

Schleifenbauer is a Dutch manufacturer of intelligent power distribution systems (Power Distribution Units). The intelligence lies in energy measurement and remotely switchable hardware per outlet, particularly for data centre applications. Schleifenbauer custom-builds these PDUs in 's-Hertogenbosch for its clients. Since 2008, Schleifenbauer Products B.V. has existed in its current form.

One of the positive aspects of our PDUs is that the configuration is tailored to the infrastructure of our customers, rather than the other way around. This is because we believe that the PDU is a critical element at the intersection of our clients' infrastructure and IT environment—a junction where we feel there is no room for compromise. To achieve this, our production process is software driven. We have grown by providing customised solutions without the drawbacks of high sales prices or long lead times.

We design and manufacture PDUs with integrated energy meters for total power, by branch group, by phase, or individually per outlet, along with the capability to switch outlets on and off remotely. Our intelligent PDUs offer the convenience of quick and easy installation and the assurance of communication with open platforms.



Socially Responsible Aspects of the Managed PDU

Our Managed PDU provides advanced energy measurement and insights into power consumption, including the Power Usage Effectiveness (PUE) of your data centre. This helps in identifying servers that consume power without being used. Once identified, these servers can be switched off via the PDU, contributing to energy efficiency and waste reduction. Choose a customised Managed PDU to enhance both your energy management and your ecological footprint.



Socially Responsible Aspects of the Inline Meter PDU

Upgrade your existing basic PDU to a smart, measurable PDU without the need for replacement. This prevents waste by extending the lifespan of your current equipment and reducing waste. Additionally, it saves costs and maximises the efficiency of your data centre by monitoring and optimising energy consumption. Choose a sustainable and cost-effective solution with the Inline Meter PDU.



2. ESG

Environmental, Social, and Governance (ESG) is the new Corporate Social Responsibility (CSR). Although CSR has been a point of focus for many years, ESG has now emerged and is primarily viewed as an international term for CSR. However, ESG has different focal points, represented by the 17 Sustainable Development Goals (SDGs), which are objectives established by the United Nations to be achieved by 2030.



ESG is deeply embedded in the DNA of Schleifenbauer, and concrete steps have already been taken towards pursuing several SDGs. For instance, Schleifenbauer is actively working on reducing its ecological footprint, minimising packaging, and even offering packaging-free delivery, as well as ensuring equal opportunities for everyone and finding the right partners to achieve these objectives.

3. Products

The ICT sector is estimated to be responsible for 5% to 10% of global electricity consumption. The nature of our products encourages our customers to achieve energy savings. Think of it as a fuel gauge in a car; the driver is prompted to use fuel more efficiently (as evidenced in various publications). The savings that follow are not directly measurable, but estimates from similar situations involving consumption meters indicate that 5-10% savings can be attributed solely to the act of measuring. By providing our technology to our customers, the savings realised through the use of our PDUs with energy meters can be considered substantial.



As a pioneer in the PDU industry, we have been the first to market several energy- and environmentally-saving innovations:

Bi-stable relays: These relays consume no energy, resulting in up to 90% energy savings compared to conventional relays.

LCD display with auto power-off: This feature reduces unnecessary energy consumption by automatically switching off when not in use.

PVC-free PDUs: Our PDUs are completely free of PVC, minimising environmental impact.

Halogen-free cables: Standard on all our PDUs, promoting a safer and more environmentally friendly working environment.

Other manufacturers have now adopted these groundbreaking innovations, highlighting our commitment to sustainability and energy efficiency.

Sustainability is also a key consideration in the design of our PDUs. For instance, when creating the plastic casing, we strive to use as much recycled material as possible. Naturally, the product must meet certain quality standards, so there are times when it is unavoidable to use less sustainable materials. However, as our Head of Engineering, René van Haarst, says: "If you're going to design it, design it so well that it doesn't break."

Schleifenbauer PDUs play a leading role in energy efficiency. Given the high energy consumption in data centres, every penny saved can make a significant difference. In data centres where hundreds, and sometimes even thousands, of PDUs are used, this can translate to a savings difference of 35,000 kWh to 500,000 kWh, equating to approximately €5,000 to €75,000 per year!



All Schleifenbauer PDUs delivered in a year save approximately 1.5 tonnes of CO2 emissions compared to other PDUs. This is based on an average saving of 15 watts per PDU.

"We cannot ensure that all equipment connected to the PDU will consume less, but by making consumption transparent, companies can detect where high usage occurs more quickly and adjust accordingly. We certainly contribute to that." - Jan de Haan, Director of Schleifenbauer.

4. Production Process

To guarantee our quality, we manage the production process ourselves. Schleifenbauer is certified to ISO 9001:2015 according to international standards for quality management.

In 2024, Schleifenbauer Products B.V. was reassessed by EcoVadis. The purpose of an EcoVadis assessment is to gain a clear view of Schleifenbauer in terms of Corporate Social Responsibility (CSR). Practices are evaluated across four themes: Environment, Labour and Human Rights, Ethics, and Sustainable Procurement. Schleifenbauer achieved a score of over 54/100. For this performance, a bronze EcoVadis medal was awarded. A bronze EcoVadis medal is given to companies ranking in the top 35% of all companies assessed by EcoVadis. This means that with a bronze medal, you are in the 65th percentile or higher of companies that have undergone the EcoVadis assessment.



Our production process is one of the most environmentally friendly available. We only manufacture products that have been sold (build-to-order), meaning there are no stockpiles of finished products, and therefore no need for storage or additional transport. We ship our products directly from the factory to the end users. Our suppliers are selected partly based on their proximity to our assembly site, further minimising unnecessary transport.



Internally, we strive to recycle using separate bins and manage our waste stream as efficiently as possible. All types of waste are segregated and collected by specialised waste management companies for recycling. Water is not used in our production process, ensuring no waste. We are always looking for ways to improve, aiming to recycle or make recyclable every component used in the production process. Steps are also being taken in terms of customer deliveries and sourcing materials. Schleifenbauer increasingly delivers without packaging, with special trolleys developed to transport the PDU's without the need for cardboard. When sourcing materials, we prioritise local suppliers, reducing transport distances. We are also working with suppliers to deliver without packaging, which is made easier by our long-term contracts with them. Initial steps have been taken with the purchase of reusable containers for continuous use.

"Delivering without packaging saves us paper, cardboard, and time, but it also saves time and reduces waste for the customer. This has been a huge success, and we're looking to expand it further." – Edward Goudsmits, Head of Operations

"Customers must set high standards for power distributors and energy meters; once installed, Schleifenbauer products are in use 24/7. Therefore, Schleifenbauer sets the bar high for its own products and all processes and activities. To uphold our mission, any (potential) improvements will be thoroughly followed up. In our weekly Management Team (MT) meetings, continuous improvements and actions are discussed, determined, and followed up."



5. Suppliers

Schleifenbauer's PDUs are produced in the Netherlands. Alongside our product quality, this is an attractive proposition for data centres and industries where 'buy local' is a key focus.

Schleifenbauer primarily works with regional suppliers. Our suppliers are required to source their raw materials, semi-finished products, and goods in an ethical manner. Companies that procure materials such as tin, tungsten, tantalum, or gold are expected to disclose this information publicly.

In the selection of components and semi-finished products, we consciously seek high quality from regional suppliers and partners, with whom we often have long-standing and successful collaborations. Our PDU's are comprised of various parts, primarily sourced from the Netherlands. In other cases, components are sourced from Germany, Belgium, and the United Kingdom. Wherever possible, suppliers deliver in bulk and without packaging.



6. People and Society

One of the defining characteristics of Schleifenbauer is flexibility. We are highly adaptable, not only in terms of product and configuration flexibility but also in our relationships with customers and suppliers. This level of flexibility is only possible because, as an organisation, we remain flexible ourselves. By adopting a flexible approach as employers, we can expect the same flexibility from our team members. Schleifenbauer is neither bureaucratic nor strictly hierarchical; everyone has their own responsibilities and contributes value to the company. A key aspect of our culture is the high level of interaction we encourage. For example, we all share lunch together in the canteen everyday, fostering a positive and enjoyable working atmosphere.

Schleifenbauer encourages its team to find joy in their work within a professional setting. Our employees are motivated to give their best in a modern and friendly work environment. Schleifenbauer feels a responsibility to open doors for individuals with disabilities, diverse ethnic backgrounds, various sexual orientations, older age, and those distanced from the job market.

In 2021, Schleifenbauer released a new employee handbook that thoroughly outlines the company's policies. It includes extensive information on employee rights and human rights. Improving society is also a hallmark of Schleifenbauer. One or two times a year, we strive to donate to a charity in some way. An example of a charity that Schleifenbauer has funded is the Nioki project in the Democratic Republic of the Congo. This funding has led to the construction of a workshop and the donation of a laboratory for blood testing. Additionally, we organised the funding for a new X-ray machine, along with furniture, tools, and materials to make the workshop fully operational.

By being operational, the waiting time for on-site adjustments and placements of prosthetics, such as artificial legs and other aids, is significantly reduced. Furthermore, patients can recover much faster. The prosthetics are now made in the Congolese capital, Kinshasa, and flown to Nioki. If a prosthetic does not fit properly or other issues arise, they can now be resolved in Nioki without the need to send the prosthetic back to Kinshasa. This provides a significant benefit to the patient. More information and images of the project can be found at: <http://nioki.schleifenbauer.eu>.



7. Sustainability

There are several more ways in which Schleifenbauer contributes to ESG policies. Schleifenbauer uses sustainable materials as much as possible for the production of its PDUs. Aluminium is a material that can be 100% recycled once the product's lifecycle has ended. Our suppliers are also selected based on quality, sustainability, and their environmental impact. Schleifenbauer goes a step further by being the first PDU manufacturer to ensure that its products are 100% halogen-free.

Schleifenbauer believes that cheap production in countries with low ethical wages is wrong and produces its products using as many regionally sourced components as possible. Through our specialisation in customised PDUs, we can offer a product that contains only the right components without waste.

Furthermore, all documents used within the company are digital. All correspondence, such as quotes, packaging, and invoices, is sent digitally, and printing on paper is always avoided. Limiting travel as much as possible is also a policy within Schleifenbauer, with encouragement to use public transport, electric vehicles, or bicycles whenever feasible. The Schleifenbauer fleet primarily consists of electric and Hybrid cars.



8. CO2 - Emissions

At Schleifenbauer, we have gained insight into our CO2 emissions by analysing our activity data, revenue, and sector information through Ecovadis. This allows us to accurately estimate our ecological footprint and take targeted actions to minimise our environmental impact.

Total CO2 Emissions

The total CO2 emissions of Schleifenbauer amount to 2,089.87 tCO2e, distributed across three different scopes:

- **Scope 1:** 8.35 tCO2e
- **Scope 2:** 3.21 tCO2e
- **Scope 3:** 2,078.32 tCO2e

Scope 1 Emissions: Scope 1 emissions are direct emissions that originate from sources owned or controlled by Schleifenbauer. This includes the combustion of fuels in vehicles, facilities, and machinery.

- **Total Scope 1 emissions:** 8.35 tCO2e
 - **Stationary combustion:** N/A
 - **Mobile combustion:** 8.35 tCO2e

Our Scope 1 emissions primarily come from mobile combustion, such as the use of transport vehicles and mobile equipment. No stationary combustion emissions have been reported.

Scope 2 Emissions: Scope 2 emissions are indirect emissions resulting from the energy that Schleifenbauer consumes, but from sources located outside our operational boundaries.

- **Total Scope 2 emissions:** 3.21 tCO2e
 - **Market-based emissions:** 3.21 tCO2e
 - **Location-based emissions:** 3.21 tCO2e

We prefer market-based calculations because they account for the purchase of renewable energy and other measures to utilise cleaner energy. For Schleifenbauer, the market-based and location-based emissions are equivalent.

Scope 3 Emissions: Scope 3 emissions encompass all other indirect emissions that result from our business activities and represent the largest portion of our total CO2 footprint.

- **Total Scope 3 emissions:** 2078.32 tCO2e
 - **Downstream emissions:** 142.32 tCO2e
 - **Upstream emissions:** 1936 tCO2e

These emissions arise from various sources, including upstream and downstream activities in our value chain, employee commuting, business travel, waste disposal, and the transportation of our products.

Conclusion

Our CO₂ footprint is primarily driven by Scope 3 emissions, which constitute a significant portion of our total emissions. The data from 2023 reflects a particularly notable year during which we completed a move to a new factory and acquired a major piece of machinery. This machine represents a one-time investment and has contributed to the high Scope 3 emissions for that year.

For 2024, we anticipate a substantial reduction in our Scope 3 emissions, as these one-time purchases will not be repeated. Schleifenbauer remains actively committed to reducing its ecological impact through sustainable initiatives and continuous improvements in our value chain. We will continue to monitor our CO₂ emissions closely and aim to minimise our contribution to climate change by integrating innovative and environmentally friendly practices into all our business processes.



9. CO2 – Target roadmap

CO2 Reduction Targets (2024-2030)

Scope 1: 25% reduction by 2030 compared to 2024.

Scope 2: 40% reduction by 2030 compared to 2024.

Scope 3: 35% reduction by 2030 compared to 2024.

Targets Achieved by 2026

- Scope 1: CO2 reduction of 5%-15%
- Scope 2: CO2 reduction of 5%-15%
- Scope 3: CO2 reduction of 10%-25%

CO2 Reduction at Schleifenbauer Products BV (2024-2025)

Scope 1 (Direct Emissions)

1. 2024 Vehicles:

- Replacement of all petrol cars completed in 2023, switching to fully electric or hybrid models. This is expected to reduce current CO2 emissions by up to 50%.
- Optimisation of usage rules for company cars (for more efficient energy consumption, use of alternative CO2-optimised fuels). Expected reduction of up to 20%.

2. 2025 Heating and Buildings:

- Maintenance and monitoring of the efficiency of heated spaces, reduction of building temperature where possible. Expected reduction of 5% to 20%.
- Evaluation of further optimisation of the heating system. Provision of warm workwear to staff.

Mobility:

- Implementation of carpooling initiatives and further promotion of home working for employees who do not need to be on-site, reducing work-related travel. This can reduce work-related travel by up to 30%.

Scope 2 (Indirect Emissions from Purchased Energy)

1. 2024 Electricity:

- Full use of green electricity, purchasing energy from solar farms and wind power plants.
- Ongoing monitoring and reporting of energy savings with the already installed energy-efficient laser machine, which can contribute to a reduction of 15%.

2. 2025 Energy Management:

- Further optimisation of outdated lighting through the increased use of LED technology across all facilities. This can lead to savings of up to 5% on energy consumption.

Equipment & Lighting:

- Optimisation of zones and sensor switches to minimise energy consumption (e.g., toilets). This can lead to a reduction of 5%.
- Maintenance and evaluation of energy-saving equipment, with a focus on long-term performance, which could contribute to a further reduction of up to 15%.

Scope 3 (Other Indirect Emissions)

1. 2024 Transport & Logistics:

- Further outsourcing of transport to CO2-neutral carriers, which can lead to a reduction of up to 25%.
- Expansion of the pick-up station concept to deliver more ex-works shipments. This can lead to a further reduction of 10%.

Production:

- Maintaining waste-free production and recycling of minimal residual waste streams, which can contribute to a further reduction of up to 20%.
 - Further development of processes to produce packaging-free products and collaborating with customers to deliver packaging-free, with an estimated reduction of 15%.
2. 2025 Procurement & Products:
- Encouraging suppliers to deliver sustainable materials, which can lead to a 10% reduction in CO2 emissions from purchased materials.
 - Promoting build-to-order production to minimise unnecessary waste, which can contribute to a further reduction of up to 20% in waste.

Process Optimisation:

- Continuing the digital transformation: digital invoice receipts, no more printing. This can result in a 5% saving in paper usage.

Mobility & Visits:

- Minimising business travel (no unnecessary client visits, digital meetings as the norm). This can reduce air travel by up to 50%.
- Continued promotion of train travel instead of flying when international visits are necessary, with an expected reduction of 30%.

CO2 Impact Summary

Largest Reductions:

- Electrification of the vehicle fleet, 50% CO2 reduction (Scope 1).
- Transition to 100% green electricity (Scope 2).
- Collaboration with CO2-neutral carriers (Scope 3).
- Operational Efficiency: Reduced costs through energy-efficient machines, waste minimisation, and enhanced logistical efficiency.
- Image & Social Impact: Improved company image through sustainability efforts and active CO2 reduction initiatives.

Schleifenbauer Products BV
 Het Sterrenbeeld 52
 5215 ML 's-Hertogenbosch
 The Netherlands



 + 31 73 523 0256

 info@schleifenbauer.eu

 www.schleifenbauer.eu