

# Sustainability

## REPORT 2024



Volta Energy  
Solutions Hungary

# DESIGN THE FUTURE SPARK THE GROWTH

## Content

Foreword.....	3
<b>1. About This Report.....</b>	<b>5</b>
<b>2. This is Volta .....</b>	<b>6</b>
Main Product.....	8
Manufacturing Process.....	10
Electric Vehicles.....	11
Base Materials.....	12
<b>3. Our purpose .....</b>	<b>13</b>
No.1 Material Solutions Partner.....	14
<b>4. Our approach to sustainability.....</b>	<b>15</b>
Approach to our report.....	16
Understanding what is expected from us .....	16
Our materiality assessment .....	17
Our contribution to the SDGs.....	18
<b>5. Environment .....</b>	<b>19</b>
Climate Protection .....	20
Energy Use.....	20
Carbon footprint.....	20
Carbon intensity.....	25
Life cycle assessment .....	26
Water management .....	27
Waste management.....	28
Air emissions .....	29
Noise and other nuisances.....	29
<b>6. Our sustainability governance and business ethics.....</b>	<b>30</b>
<b>7. Our commitment towards the community .....</b>	<b>31</b>
<b>8. Conclusion .....</b>	<b>32</b>
<b>9. GRI Index .....</b>	<b>33</b>
<b>10. Environmental performance metrics.....</b>	<b>34</b>

# Foreword



We are pleased to present the third sustainability report from Volta Energy Solutions Hungary (hereinafter: Volta), a subsidiary of our global organisation, Solus Advanced Materials. At Solus Advanced Materials, we are committed to becoming a global market leader by supporting our customers with advanced materials and innovative solutions based on our superior technological processes, which create future value.

This report reflects our commitment to sustainable corporate governance, demonstrating how we manage our complex business activities in a conscious and responsible manner. Sustainability has undoubtedly become a key factor in the business world, already playing a decisive role in the short-term success of companies. Our forward-thinking business offers solutions to key global challenges, such as electromobility, technological innovation, and the development of bio-based materials for use in the pharmaceutical, cosmetic, and nutraceutical industries. Although we are committed to sustainability, we recognise that our industry is inherently energy-intensive. It was this awareness that led us to conduct our first carbon footprint analysis in 2022, which covered both our products and our organisation. The 2023 update enabled us to track our progress, and we intend to publish the results in 2024. This continued focus and transparency form the basis for mitigating and reducing our environmental impact further.

In 2024, we made significant progress towards sustainable operations. While increasing our production capacity, we reduced our carbon intensity. Additionally, we used only 100% recycled copper in our production and continued to focus on increasing energy efficiency, both of which have made our operations even more responsible.

This report outlines our approach to sustainability and provides a detailed overview of our progress in managing environmental impacts and operating sustainably. We are committed to making further progress and intend to expand the overview to include social and governance aspects in the coming years.

Sustainability is a strategic priority for us, and we pay particular attention to monitoring and managing the impact of environmental, social, and governance (ESG) factors. As our company is currently in a growth phase, we must take on increased responsibility and make consistent efforts to control our environmental and social impacts.

This report is not just an internal document; it is also a transparent public statement of our commitment. We encourage you to share your views and suggestions for improvement with us and participate in this dialogue.

We hope you enjoy reading it!

**Keunman KWAK**

Volta Energy Solutions, CEO

**Sustainability**  
REPORT 2024



At Volta, we aim to provide the world with innovative, market-leading products while managing our sustainability commitments responsibly. Our company is part of a large international group. Our copper foil plant in Hungary, established in early 2020, is the only one of its kind in Europe. In 2022, we reached another milestone when we started construction on our North American factory, which will further expand our global presence.

We use world-leading technology to produce thin yet extremely strong copper foil, drawing on over 60 years of experience in copper foil manufacturing. This gives us outstanding expertise and reliability.

During our first years of operations in Hungary, we have devoted particular attention and resources to assessing the environmental and sustainability impact of our activities. For us, sustainability is not an additional activity, but an integral part of our business. Accordingly, we aim to be transparent about who we are and how we contribute to shaping the future.

Our industry is a key player in addressing one of the biggest global challenges: electromobility. We produce vital components for electric vehicle batteries, thereby helping to reduce carbon emissions from transport. We recognise that transporting people and goods significantly contributes to climate change and global warming, which is why we are proud to be part of the solution.



**Sangbeom KIM**  
Volta Energy Solutions,  
VESE / VESH CEO

Copper foil is an essential component of electric vehicle batteries. This ultra-thin layer of copper plays a key role in battery efficiency, allowing electric vehicles to travel longer distances on a single charge. At Volta, we specialise in the production of high-tech, high-performance battery copper foils. Our products are designed to maximise the performance of electric vehicles, increasing their range and reliability.

This advanced manufacturing technology requires deep expertise - a knowledge base that we have built up over many years with in-depth knowledge of the materials and manufacturing processes used. We aim to continuously optimise our manufacturing processes: increasing their efficiency while reducing our environmental footprint.

Our product and process development efforts are closely aligned with our sustainability goals - the foundations that will enable us to grow sustainably in the global marketplace in the long term.



**Junghyun LEE**  
Volta Energy Solutions,  
Head of Manufacturing  
Technology Center

Sustainability is now a key issue in the financial sector. Financial instruments are increasingly linked to ESG frameworks, which help reduce risks to long-term profitability and enable sustainable long-term operations. By monitoring materiality issues, we can better balance our financial performance with our environmental, social, and governance impacts.

Transparent measurement and communication of our sustainability performance not only enables organisational learning, but also helps us achieve a more favourable rating from credit rating agencies. Improving our ESG ratings directly impacts market perception of us and strengthens our credibility.

The ESG approach provides an opportunity to develop closer, value-based cooperation with our financial partners. This will allow us to access more competitive financing schemes, such as preferential lending rates, while also deepening our banking relationships in the long term.



**Minsu SHIM**  
Volta Energy Solutions, CFO  
(Europe Management Office)

Our copper foils play a key role in improving the performance and cost-efficiency of electric vehicles. We provide reliable delivery and a high level of technical support to ensure that our customers consistently receive an outstanding quality of supply. Our products enable our partners to achieve improved battery performance, increased range and lower costs.

Welcome to Volta - where we are committed to the continuous development of battery technology and actively contribute to a sustainable future for electromobility.

**Jenő MARÓDI**



Volta Energy Solutions,  
Head of Manufacturing  
Operating Center

As a market leader, we offer high-quality products that play a vital and integral role in the electromobility industry. We demonstrate the importance of sustainability through our products, which are exported worldwide. Volta is continuously increasing its competitiveness by producing high-quality battery copper foil in a stable manner, while maintaining a strong focus on environmental protection. The prominence of sustainability issues is growing worldwide, and they're now a key part of what customers expect. We're in full support of this approach.



**Junwook LEE**  
Volta Energy Solutions,  
Head of VESE  
Sales

When considering new greenfield or CAPEX investments, sustainability is a key consideration from the initial phase. With this approach, we build a more efficient and sustainable infrastructure for our business, while reducing the environmental impact of our construction projects. Sustainability has become an integral part of our everyday operations, from design to project management. By making responsible choices about materials and technologies, we can significantly reduce our carbon footprint, which reduces both operating costs and environmental impact. In line with these goals, we are committed to developing a comprehensive sustainability system within our company.

**Byungnam JUNG**

Volta Energy Solutions,  
Facility Management Technology  
Department

Sustainability principles and environmental responsibility are fundamental pillars of our company's operations, which we prioritize in all our business activities. Our deliberate sustainability strategy helps effectively mitigate risks and strengthens our long-term financial performance at our manufacturing facility in Hungary. Hungary is a strategically important location for us, thanks to its favorable geographical position, enabling us to quickly and efficiently meet the rapidly growing market demands of electromobility.



**Hyeongjun CHOE**  
Volta Energy Solutions,  
CFO

# 1. About this report

**This is the third sustainability report of Volta Energy Solutions Hungary / Europe Kft. since the company established its presence in the Hungarian market in 2019-2020 to produce copper foil for car battery producers. Going forward, we will refer to Volta Energy Solutions Hungary Kft. as Volta for improved readability of the report.**



## Reporting approach

This report is intended for all our stakeholders – including employees, customers, suppliers, regulatory authorities, NGOs, and members of the public who are interested in our activities. Our goal is to provide a transparent and trustworthy overview of who we are and what we do.

The content of this report is guided by the Global Reporting Initiative (GRI) standards, which we use as a reference framework. It also highlights our contribution to the United Nations Sustainable Development Goals (SDGs) and illustrates how our actions align with key international sustainability frameworks.

## Boundaries

This report focuses on Volta's local operations in Hungary, specifically at our Környe manufacturing facility, where the most significant sustainability impacts occur.

The reporting period covers the year 2024. Our production centre was established as a greenfield investment in 2020, with full-scale operations beginning in 2021. As a result, we now have historical data available to assess and compare our environmental sustainability performance for 2024, identifying key trends and developments.

Looking ahead, we remain committed to regularly measuring and transparently communicating our progress. We are already observing positive outcomes in certain areas, such as a reduction in the carbon intensity of our overall operations.

## Targets

At Volta, we recognize that setting ambitious targets is a key driver of performance. While we are still in the process of formalizing and communicating our long-term sustainability goals, we are committed to establishing clear and measurable objectives over the coming years.

We fully acknowledge our responsibility to reduce our environmental impact, particularly in terms of greenhouse gas (GHG) emissions. Building on the outcomes of our 2024 carbon footprint assessment, we are developing a comprehensive emission reduction strategy to be considered throughout 2025.

This report reflects our continued commitment to sustainability and offers a transparent overview of our progress across all key areas.

By benchmarking our latest results against previous years, we can demonstrate how our efforts are evolving. In line with international climate goals, we are working toward reducing our CO<sub>2</sub> emissions by 55% by 2030 and achieving net-zero emissions by 2050.

Although our operations are scaling up to meet growing demand, we remain focused on reducing carbon intensity at the operational level. This remains a top priority and is treated as a critical issue throughout this report.

Looking ahead, we are closely monitoring related climate-related regulations, including the Corporate Sustainability Reporting Directive (CSRD). Ensuring alignment with these evolving standards will be a key part of our strategy, as transparent and compliant reporting becomes an essential expectation for responsible businesses.



# 2. This is Volta

**Sustainability**  
REPORT 2024



# 2. This is Volta

Solus Advanced Materials (Solus), an electric component and copper product manufacturer in South Korea, aims to provide leading solutions in core materials for electric vehicles, display materials and biomaterials. Solus earmarked significant investment for the construction of a battery copper foil factory in Quebec, Canada. However, the plant did not commence production in the second half of 2024 as initially planned.

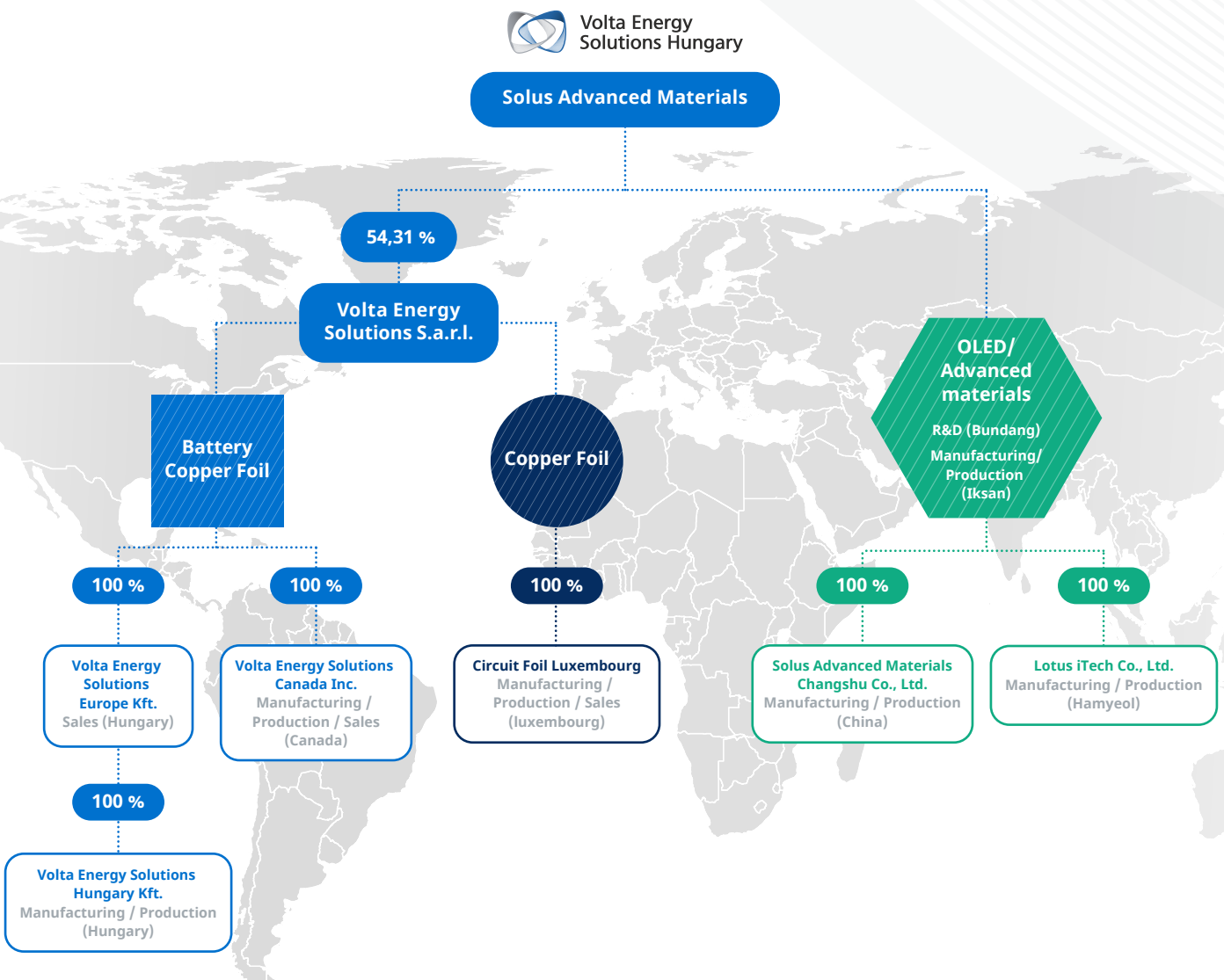
Solus is a world-leading material solutions partner that has developed the world's first copper foil for electric vehicle batteries and is an exclusive supplier of essential materials for OLED displays.

Apart from headquarters, South Korea is home to the Iksan sites for biomaterials like cosmetics, pharmaceuticals and nutraceuticals, and electro display materials like OLED for different types of screens.

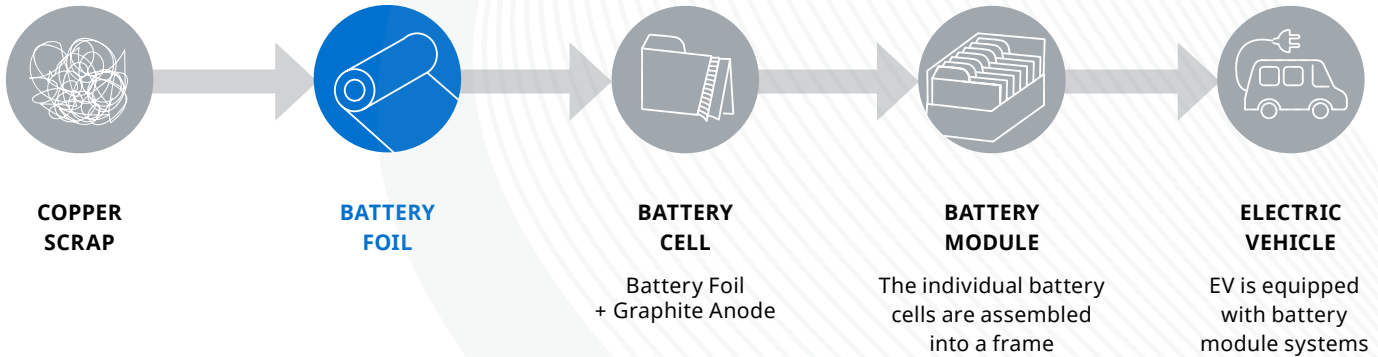
Suji R&D Centre also supports innovation in South-Korea. In the name of dynamic growth and diversification, Solus expanded their operations to Europe and established sites in Luxembourg for copper foil and most recently in Hungary for battery copper foil. Volta Energy Solutions Hungary is the Hungarian site for Solus Advanced Materials Co.

Battery copper foil is a core material of the electric car battery. Solus Advanced Materials has completed its development of high-end, compact, high-efficiency battery copper foil that can help increase the mileage of electric cars. The battery foil plant in Hungary started production early 2020. In 2022, mass production started at the second battery copper foil plant in Hungary.

Battery foil is an essential component of electronic equipment in the form of circuits, transmission and most importantly, in batteries it serves as conduit.



SOLUS ADVANCED MATERIALS



# Main Product

## Standard battery copper foil (BF-PLSP)

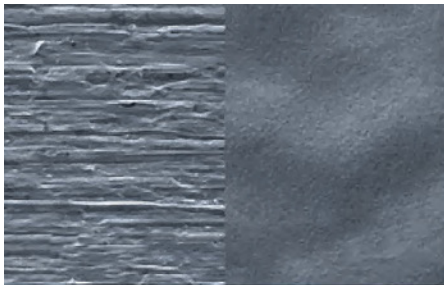
- Standard battery copper foil for electric vehicle batteries
- Cylindrical / Prismatic / Pouch type
- Thickness: 6 – 18 µm

## High-elongation battery copper foil (SR-PLSP)

- Contributing to yield improvement by upgrading processability within the battery production process with high strength properties before heat treatment and increasing the life and stability of cylindrical and square batteries with high elongation properties after heat treatment
- Cylindrical / Prismatic type
- Thickness: 6 – 12 µm

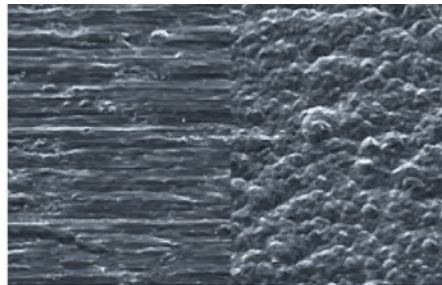
## High-strength battery foil (HTS-PLSP)

- Possible to load much more active materials with high strength properties, contributing to the minimization of deformation at the time of battery charge and discharge by maintaining strength after heat treatment
- Pouch type
- Thickness: 6 – 12 µm



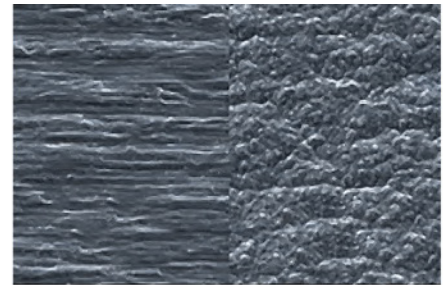
drum side

electrolyte side



drum side

electrolyte side



drum side

electrolyte side

Solus holds the world leading thin foil manufacturing technology and has developed mass produced copper foil for the first time in the world, based on more than 6 decades of cumulative experience and know-how. With our recent investments we can provide competitive delivery time and stable supply for our clients in Europe.

Volta aims to provide high grade battery foil for electric car batteries in the European and global markets. To consider the sustainability impacts our operations result in; it is critical to understand our core process of foil production.



Volta Energy Solutions Hungary is the Hungarian site for Solus Advanced Materials Co.



**Almost 400 employees**



**9 export countries + Hungary**



**Net revenue of Volta Energy Solutions Hungary: 229 MUSD**

**Net revenue of Volta Energy Solutions Europe: 183,8 MUSD**



**21,889 tons of copper foil produced**



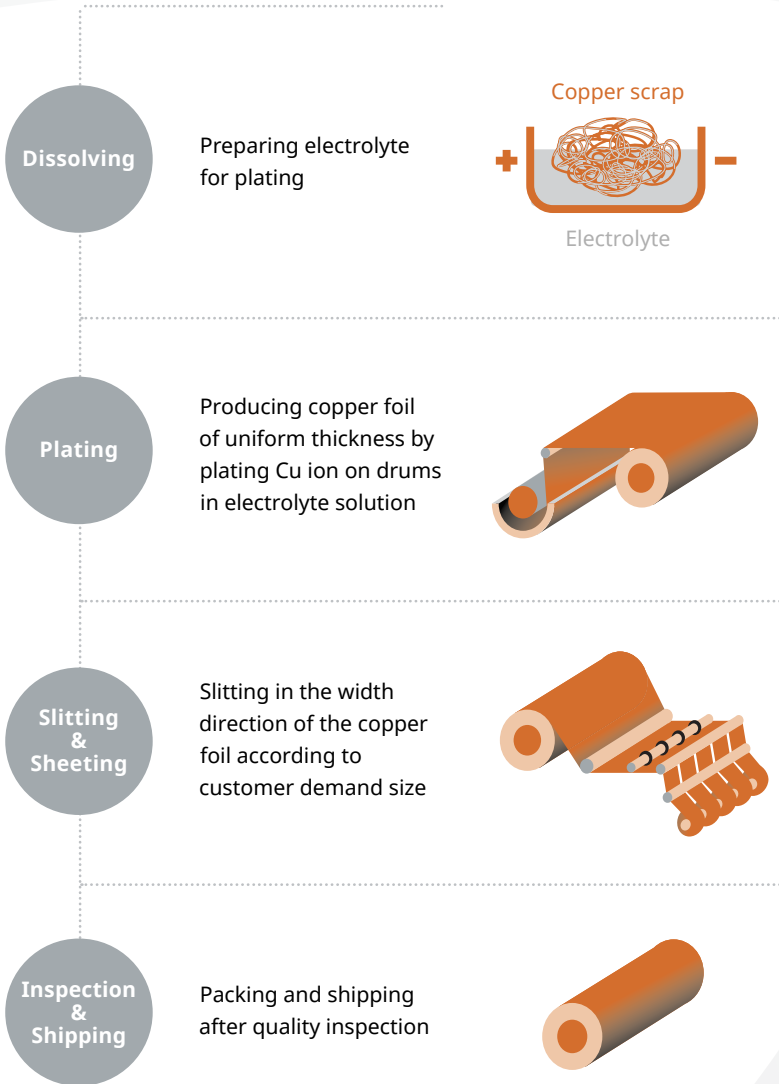
**100% recycled copper**

# Manufacturing process

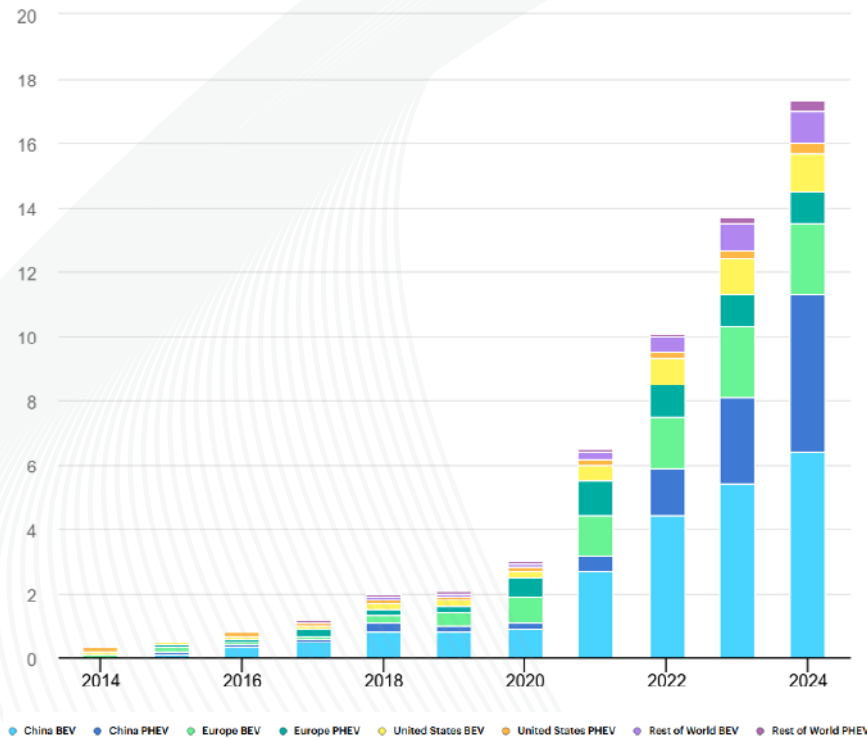
The battery foil manufacturing process can be split into the following steps:

- Firstly, Volta receives the high-quality copper from recycled sources.
- Then, the copper is dissolved in acidic electrolyte, as preparation for the plating process.
- During plating, the copper foil is formed on the surface of slowly turning drums submerged in the electrolyte.
- The foil is then slit into the required size as per the demands of the customer and stored in rolls.
- Finally, due to the nature of the product, precision is essential, thus, thorough inspection is necessary before shipping.

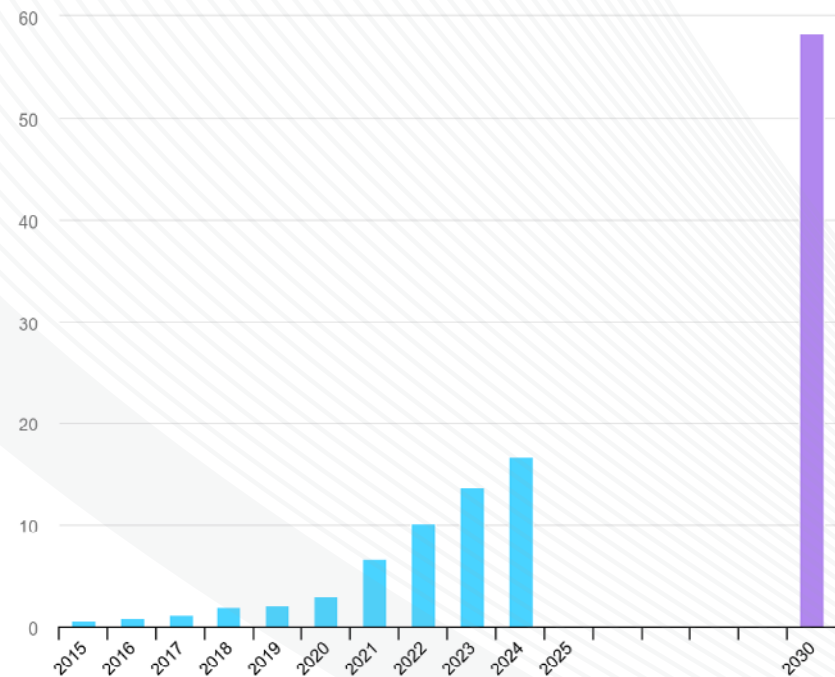
The battery foil demand will steadily increase in the world, but especially in Europe. This comes from the commitment of the European Union to reduce and eliminate carbon emissions in the long-term to make the continent carbon neutral. Electromobility is an essential part of this transition, and we are proud to be an active contributor to this process.



# Electric Vehicles



Global electric car sales, 2014-2024 (source: International Energy Agency)



Global electric car sales and COP28 pathway, 2030 (source: International Energy Agency)

Electric car sales exceeded 17 million globally in 2024, reaching a sales share of more than 20%. Just the additional 3.5 million electric cars sold in 2024 compared with the previous year is more than the total number of electric cars sold worldwide in 2020. Electric car sales in 2025 are expected to exceed 20 million worldwide to represent more than one-quarter of cars sold worldwide. Sales were up 35% year-on-year in the first three months of 2025, with record first-quarter sales in all major markets. Despite uncertainties in the outlook, the share of electric cars in overall car sales is set to exceed 40% in 2030 under today's policy settings. The forecast shows that global electric car sales and COP28 pathway for 2030 will reach almost 60 million units.

For Volta, this steady growth in demand means continuous increase in production capacity in the forthcoming years. This highlights even more the necessity of keeping sustainability at the forefront of decisions. Our factory expansion programs already include engineering solutions in the design phase and pathways to minimise our impact on the environment.

"An effective, environmentally friendly operation of an organization can help to conserve natural resources, reduce the risk of pollution and protect the health of workers and residents and to continuously improve its environmental performance."

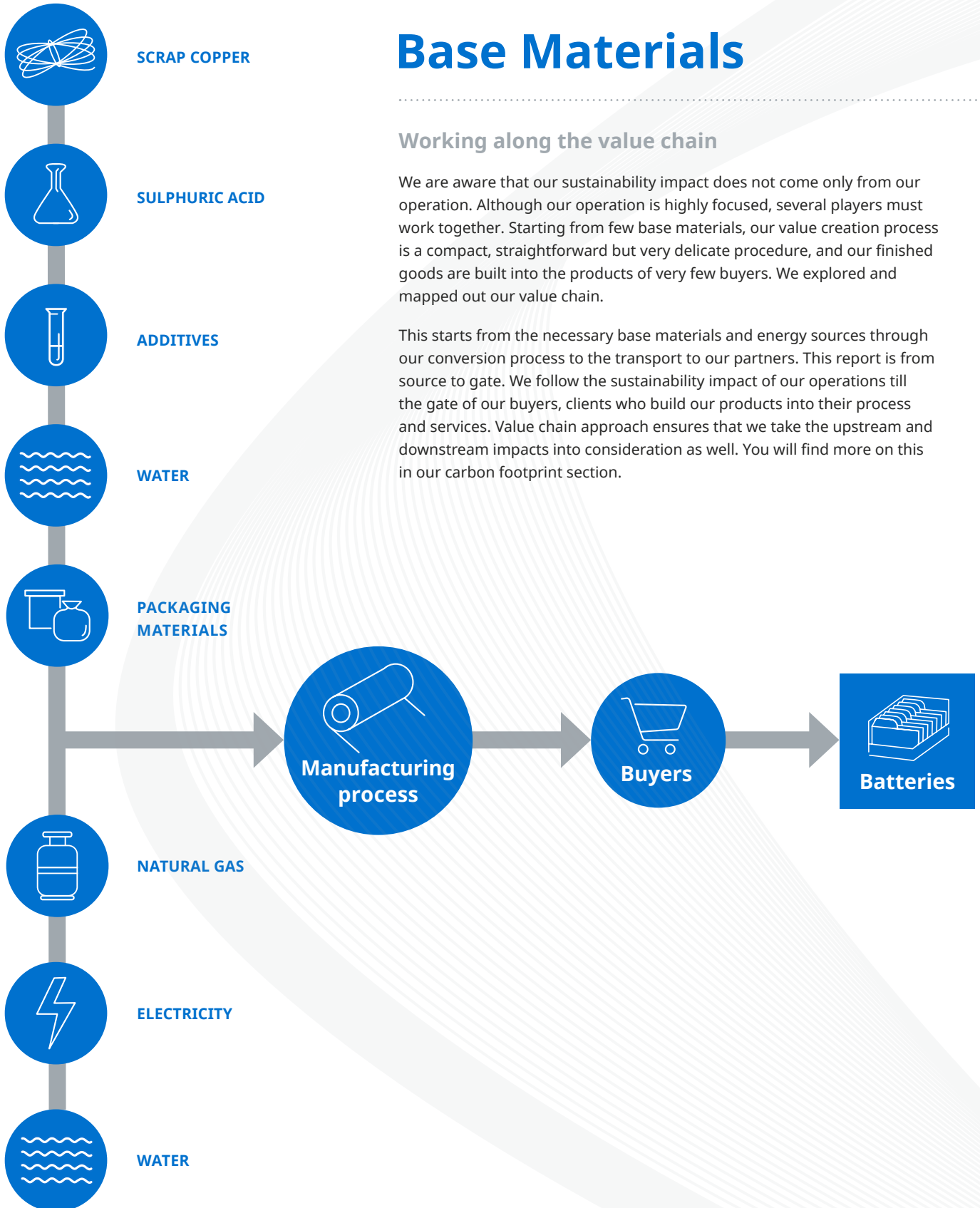
**Dowoong PYEON**  
EU Sales Team Leader

# Base Materials

## Working along the value chain

We are aware that our sustainability impact does not come only from our operation. Although our operation is highly focused, several players must work together. Starting from few base materials, our value creation process is a compact, straightforward but very delicate procedure, and our finished goods are built into the products of very few buyers. We explored and mapped out our value chain.

This starts from the necessary base materials and energy sources through our conversion process to the transport to our partners. This report is from source to gate. We follow the sustainability impact of our operations till the gate of our buyers, clients who build our products into their process and services. Value chain approach ensures that we take the upstream and downstream impacts into consideration as well. You will find more on this in our carbon footprint section.



# 3. Our purpose

**Sustainability**  
REPORT 2024



Volta Energy  
Solutions Hungary

# 3. Our purpose

We create value through continuous new material development, technological innovation and providing solutions to change our customers' future.

Global warming is one of the biggest challenges of mankind. The increasing and ever-growing impact of industrialization creates steady warming of our planet which results in significant adverse changes of the climate. Mobility, travel, and transportation is responsible for a quarter of the global climate impact. Our challenge is to contribute to the solution of this significant problem and support electro-mobility and transport electrification with reliable and effective products. We produce critical components to electric car batteries, which support electromobility.

Our purpose is to be a reliable partner for these emerging industries with innovative and cost-effective copper foil.

"At the heart of our operations is a deep commitment to environmental, social, and governance (ESG) principles. We are focused on minimizing the environmental impact of our products by responsibly sourcing raw materials, reducing emissions across our value chain, and investing in advanced recycling technologies. We uphold high standards for labour rights and safety, both within our company and across our supply network. Transparency, accountability, and long-term sustainability guide every decision we make as we work to power a cleaner future."

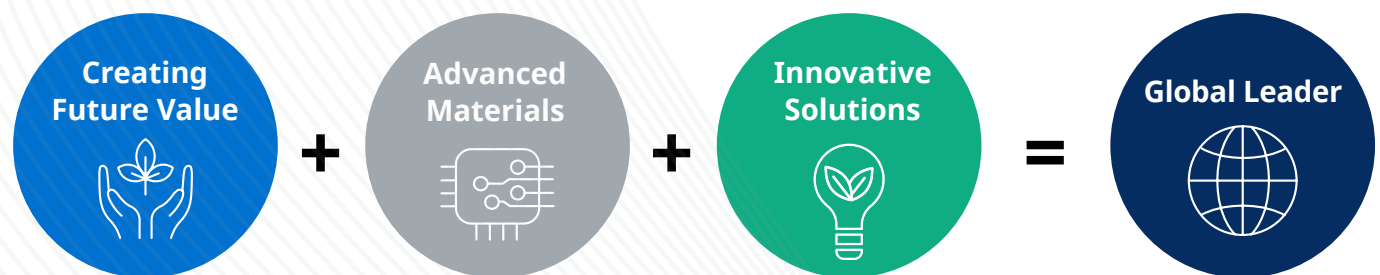
Jaesuck OH - Strategy

ESG is central to our mission. We are committed to sustainable sourcing of raw materials, reducing the carbon footprint of our manufacturing processes, and ensuring the safe, ethical treatment of workers throughout our supply chain. We also prioritize battery recycling and circular economy practices to minimize environmental impact. Our ESG strategy is not just compliance – it's a competitive advantage and a core value driving long-term innovation and trust. Additionally, limiting carbon emissions are increasingly backed by new regulations and new taxes. More and more can be expected. Dedicating resources to ESG is an essential step to secure sustainable growth from corporate finance perspective. This enables us to access competitive financing conditions such as discounted loan rates and to deepen the relationship and interactions with financial institutions."

Sang-Gyu KONG - Business Management Team

## No.1 Material Solutions Partner

We at Solus Advanced Materials aim to be a global leader that provides customers with advanced materials and innovative solutions based on our excellent technological prowess that create future value.



Solus Advanced Materials pursues sustainable management for a better future. Since the company was established, Solus Advanced Materials has been practicing principled ESG management. In 2024, the company continued to reflect on the value of ESG, and strive to pay the trust and love of its customers and investors forward in the communities in which we operate, in the name of achieving a win-win business.

Solus Advanced Materials has world-leading competitiveness in high-end battery foil technology, with its manufacturing technology for 4.5µm thin battery copper foil, high-strength battery copper foil up to 70 kgf/µm, and high-elongation battery copper foil up to a 15% stretch ratio. Based on such technologies, Volta Energy Solutions, a European integrated corporation, manufactures high-quality battery copper

foils that meet global standards and quickly supplies them to customers in Europe and North America. Solus Advanced Materials will lead the electric vehicle era by realizing high density and lightness of batteries to improve the mileage of electric vehicles through its world-leading battery copper foil manufacturing technology.

# 4. Our approach to sustainability



Volta Energy  
Solutions Hungary

# 4. Our approach to sustainability



Producing battery foil

Sustainability is an integral part of doing business. Our processes result in several impacts, and we are taking note of them. We aim to tackle and minimize these impacts and focus on improving our processes.

When we created this report, we followed the most important sustainability frameworks. The structure of this report is in line with the Global Reporting Initiatives (GRI) and uses their requirements as reference to its structure.

We understand that sustainability is a comprehensive view which covers environmental and social impacts, and transparency of our governance model.

Therefore, we started our sustainability journey with measuring, understanding, and managing our environmental impacts first, extended with social and governance scope as well.



## Approach to our report

Step one is always to understand the legal framework and the main sustainability trends concerning our industry. This impact assessment highlights the most important impacts within our factory

and along our supply chain. Then we involve our stakeholders in the frame of an online anonym questionnaire which leads to the definition of the material issues.

The whole materiality assessment was carried out in 2022 for our first report. In 2024 we reviewed the result, but we did not see the need of changing.



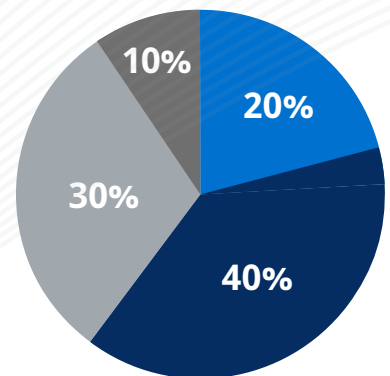
## Understanding what is expected from us

Our stakeholders help us understand where to focus and what to deal with. To explore this expectation, we conducted a stakeholder assessment in 2021. Following the GRI model we listed our stakeholders and prioritized them based on a power-interest methodology.

Then with the use of an anonymous online platform we asked them about

their expectations and rating of several environmental impacts. Based on the inputs received we got a critical input to our next process: materiality.

Here you see the composition of our respondents. We engaged key groups such as our buyers, suppliers, investors, and municipalities. All their feedback is integrated into our impact assessment.



● Volta's product buyer ● Investor, Financing partner ● Supplier ● Authority, Municipality

Share of responding stakeholders in survey

# Our materiality assessment

Materiality is a critical tool in sustainability. We need to know where to focus, what is significant (material) in sustainability terms. Ambitions and resources are not endless; thus, materiality helps us guiding our efforts to the most significant topics and areas. With the involvement of the senior management team and consultants we defined which are the material issues for Volta. We understand two important aspects of materiality: how relevant the issues are, and how significant is our impact on these issues. Based on this we grouped the emerging topics into three categories:

Critical • Strategic • Operational

### Our critical material issues are:

1. Energy consumption
2. Greenhouse Gas (GHG) emissions - organisational carbon footprint (including scope 1,2 and 3).
3. Carbon intensity
4. Renewables
5. Water impact

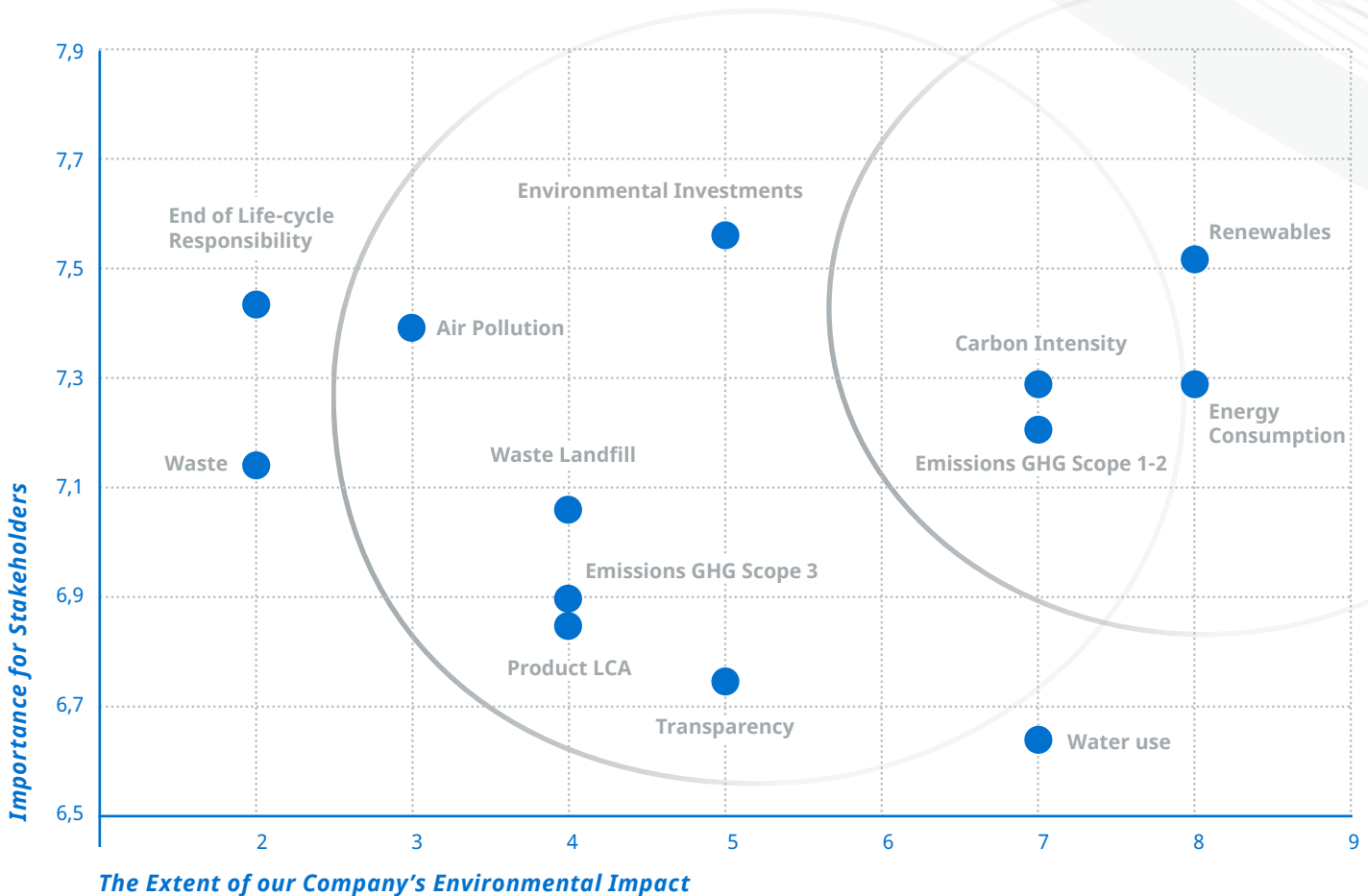
In this report you will find detailed explanations on these areas, their related programs, and initiatives. Before going into details, let's see how we fit to the SDGs, as one of the most important sustainability framework.

**OPERATIONAL**

**STRATEGIC**

**CRITICAL**

## Materiality matrix




# Our contribution to the SDGs

Volta Hungary, as part of a global organization, plays an important role in protecting the environment, taking care of our people and communities well. We are committed to align our efforts to the global sustainability goals.

The Sustainable Development Goals have been set by the United Nations to provide clear direction and call for the world's biggest challenges. Although all businesses should contribute to make progress on all these goals, different companies have different influence on these 17 SDGs. We have prioritized the Sustainable Development Goals based on our potential impact: direct SDG represents the area where we can make the most significant contribution, indirect SDGs are those where our activities have a meaningful but less direct impact, and other, indirect SDGs are areas where our influence is less potent.


## Direct SDGs

Our industry is producing copper foil to electric cars, making them more efficient in terms of fuel efficiency and mileage. With this we contribute to the spread of electromobility and to the process of shifting from fossil fuelled vehicles to electric ones with zero emission in their use phase. This has several direct relations to UNN SDGs.

**7 AFFORDABLE AND CLEAN ENERGY**  
 SDG 7 is about ensuring access to clean and affordable energy is key to the development of agriculture, business, communications, education, healthcare and transportation. Volta contribute to this by the production of copper foils to EV batteries.

**8 DECENT WORK AND ECONOMIC GROWTH**  
 Promoting inclusive and sustainable economic growth, employment and decent work for all (SDG 8) plays crucial role in the life of Volta. The company is establishing an EHS management system, minimizing working accidents, pollutant emissions, and promoting disaster prevention activities.


Our planet is running out of resources, but populations are continuing to grow. If the global population reaches 9.8 billion by 2050, the equivalent of almost three planets will be required to provide the natural resources needed to sustain current lifestyles.

**12 RESPONSIBLE CONSUMPTION AND PRODUCTION**  
 Ensuring sustainable consumption and production patterns (SDG 12) is key to sustain the livelihoods of current and future generations. Volta treats this responsibility on top priority, so uses 100% recycled copper as feedstock for its production.

## Indirect SDGs

**9 INDUSTRY, INNOVATION AND INFRASTRUCTURE**  
 Our secondary Sustainable Development Goals are SDG 9, 11 and 13. Building resilient infrastructure and promoting sustainable industrialization and foster innovation (SDG 9) is also treated on strategic management level at Volta.

**11 SUSTAINABLE CITIES AND COMMUNITIES**  
 SDG 11 is about making cities and human settlements inclusive, safe, resilient and sustainable. Our product contributes to the climate change mitigation and not only by the reduction of fossil fuel consumption, but also pave the way to cleaner air in densely populated cities. Electric cars perform zero emissions during their use phase, which implies significant contribute on to the reduction of respiratory disease cases.

**13 CLIMATE ACTION**  
 Climate action (SDG 13) is caused by human activities and threatens life on earth as we know it. With rising greenhouse gas emissions, climate change is occurring at rates much faster than anticipated. Its impacts can be devastating and include extreme and changing weather patterns and rising sea levels. Volta is engaged to the continuous reduction on GHG emissions of its direct and indirect processes.

Our commitments towards these goals include ongoing innovation, efficient production processes and contributing to sustainable transportation.

## Other indirect SDGs

While Volta's core operations align most directly with clean energy and responsible production, a copper foil company can also contribute to broader SDGs by supporting education, gender equality, innovation, and sustainable infrastructure through inclusive practices and strategic partnerships. This reflects a holistic commitment to sustainable development beyond its immediate industry impact.

Volta is committed to support and contribute to all of the SDG's, even which are not as relevant as some other. The way we develop our products, manufacture in our plant, and we treat with our partners offer endless opportunities to support all of the sustainability related goals. Later in this report, we will explain several of our programs in detail.



# 5. Environment

**Sustainability**  
REPORT 2024



Volta Energy  
Solutions Hungary

# 5. Environment

“At Volta we know that there is no Plan(et) B”

**21,889 tons of copper foil produced in 2024, 6,25% increase compared to 2023**

The natural environment provides all the conditions necessary for life. Protecting and preserving it is our obligation and future. Volta, as an industrial player with high-intensity manufacturing processes, must do its utmost to balance, reduce, and eliminate the potential negative impacts.

Volta’s guiding principles focus on respecting the environment and preventing any adverse impacts:

1. Volta adheres to environmental regulations, which is a pivotal point in its business model.
2. The riches of nature can only be treated in a sustainable manner.
3. Irreversible environmental harms must never be the consequence of making profit.

## Climate protection

Global warming affects all living things on Earth. The increase of the temperature will result in major consequences such as sea level rise, desertification, and global migration due to the lack of water and unbearable heat. Losses on biodiversity can be hardly mended.

The international community recognized this threat and established the Paris agreement, in which governments pledged to take actions in order to keep global warming to below 2 °C. To achieve these ambitious yet vital targets, everyone must cooperate and contribute.

Volta strives to continuously improve its operation, which actions are twofold: on the one hand, as an energy intensive manufacturer Volta improve its energy efficiency, to find the way to a lower energy consumption. On the other hand, Volta also is committed to the reduction of greenhouse gases and other, environmentally harmful emissions.

In this chapter we explore our impact as a manufacturer.

## Energy use

Producing copper foil is an energy intensive process. Significant amounts of electricity and natural gas are used during our manufacturing.

In 2024, Volta improved its energy efficiency with the following actions:

- Closed cooling system on contact blocks,
- Heat pump installation,
- Retrofit thermal insulation of process components.

Thanks to these measures, Volta achieved a 5% reduction in energy consumption.

## Carbon footprint

The first step towards managing our carbon-emissions, is understanding its size and composition. Volta started to measure its corporate and product carbon footprints since 2021.

Measuring greenhouse gas emissions is essential to ensure compliance with environmental regulations, identify opportunities for energy and cost savings, and strengthen Volta’s reputation for sustainability. It also supports our customer and investor demands for transparency and enables us to contribute meaningfully to global climate goals.

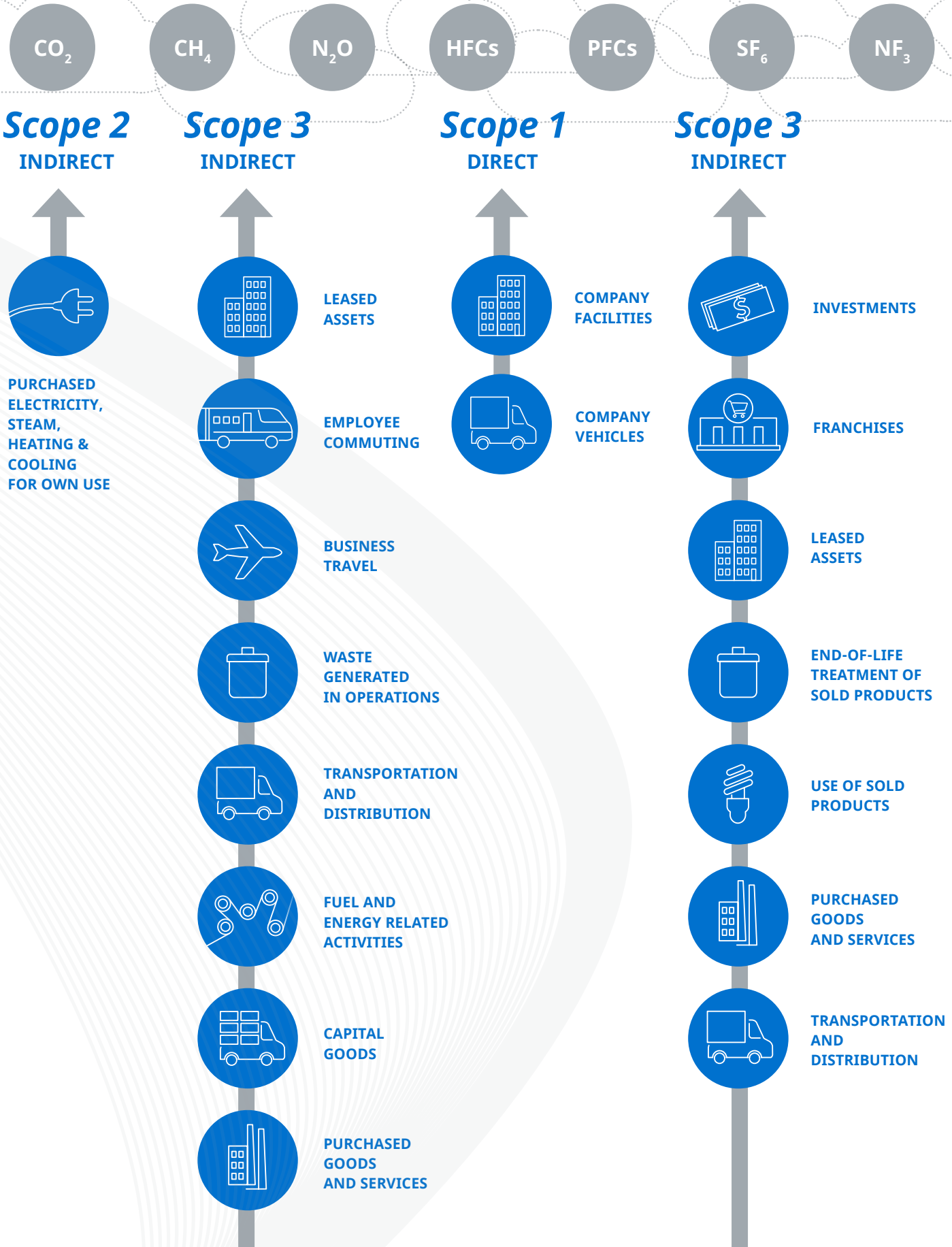
Our carbon footprint includes our value chain as well in accordance with the cradle-to-gate approach. We measured our Scope 1, 2 and relevant Scope 3 emissions according to both market- and location-based methodologies. The carbon accounting was conducted by the use of the latest EcoInvent database, as a trusted global resource for environmental data and adhering to the CCFP related guidelines and standards, as GHG Protocol and ISO 14064.

The calculated results and interpretation of GHG emissions are represented below.

**Total GHG emissions (Scope1-2-3) in 2024: 91,2 ktons (market-based) 97,3 ktons (location-based)**

“Improving our factory’s efficiency is a priority – not only to reduce costs, but also to minimize environmental impact. We take a comprehensive approach that includes energy efficiency, process optimization, waste reduction, and overall sustainability. As part of this, we evaluate initiatives such as adopting LED lighting for factory illumination, installing photovoltaic panels to expand our use of renewable energy, and reducing boiler usage by recovering waste heat from production processes.”

**Katalin NAGY** - ESG team Leader



<b>OVERALL GHG EMISSION OF VOLTA ENERGY SOLUTIONS HUNGARY LTD. IN 2024.</b>			
	<b>Category</b>	<b>[tCO<sub>2</sub>e]</b>	<b>Share in the overall GHG emission [%]</b>
<b>SCOPE 1</b>			
	Stationary combustion emissions	<u>8 782,2</u>	9,6%
	Mobile emissions	194,4	0,2%
	Generated electricity by own assets	25,4	0,03%
	<b>Scope 1 Total:</b>	<b>9 002,0</b>	<b>9,87%</b>
<b>SCOPE 2</b>			
	Emissions from purchased energy (market-based)	<u>51 139,8</u>	56,08%
	<b>Scope 2 Total:</b>	<b>51 139,8</b>	<b>56,08%</b>
<b>SCOPE 3</b>			
3.1	Purchased goods and services	5 951,3	6,5%
3.2	Capital goods	1 704,3	1,9
3.3	Fuel- and energy-related activities	<u>19 778,5</u>	21,7%
3.4	Upstream transportation and distribution	1 196,4	1,3%
3.5	Waste generated in operations	919,8	1,0%
3.6	Business travel	55,9	0,1%
3.7	Employee commuting	440,3	0,5%
3,9	Downstream transportation and distribution	1 004,6	1,1%
	<b>Scope 3 Total:</b>	<b>31 051,1</b>	<b>34,05%</b>
	<b>Overall sum:</b>	<b>91 192,9</b>	<b>100%</b>

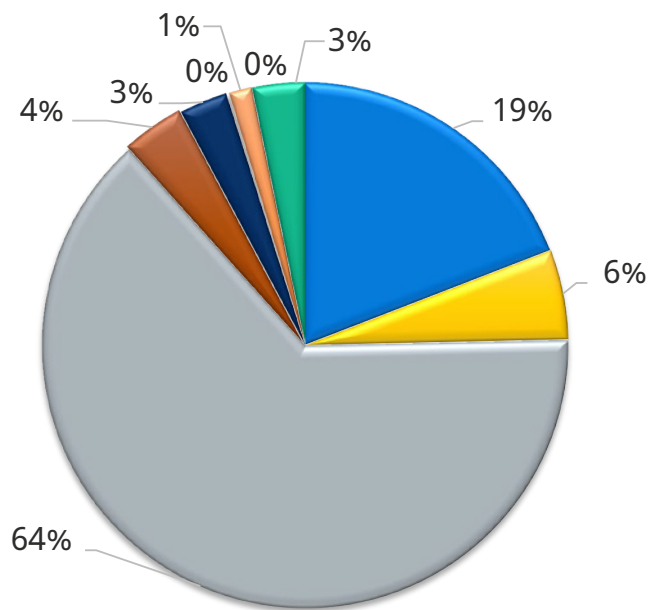
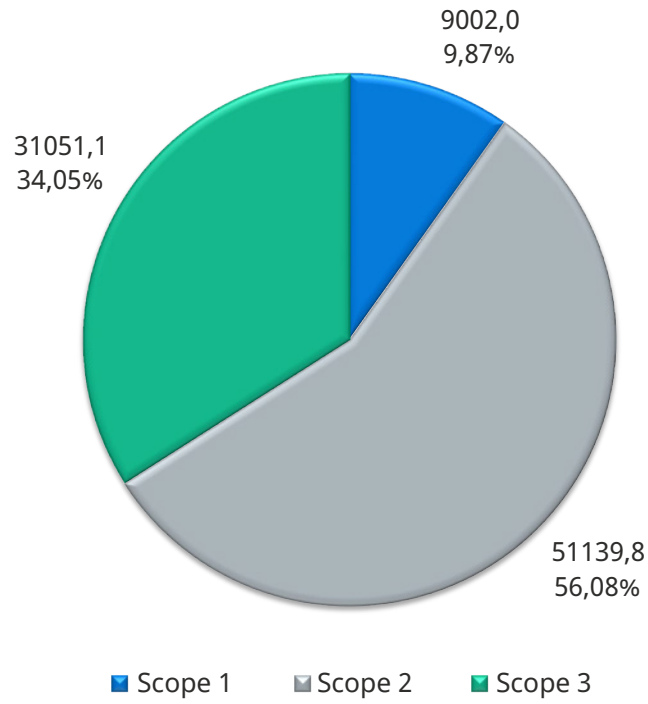
The underlined values represent the highest impact within the corresponding Scope Category.

In 2024, Volta's total greenhouse gas (GHG) emissions – including Scope 1, 2, and 3 – amounted to 91,193 tons of CO<sub>2</sub> equivalent (based market-based methodology). These figures reflect that our production process is highly energy-intensive, with electricity consumption being a major factor.

Consequently, Scope 2 emissions, which are linked to purchased electricity, represent the largest portion at 56.08% of total GHG emissions. Scope 3 emissions follow, accounting for 34.05%, primarily driven by emissions associated with the extraction of fuels used to generate the electricity we consume.

Scope 1 emissions constitute the smallest share, at 9.87%, mainly due to natural gas usage in our stationary combustion equipment.

Volta is committed to further improvements in its operation to minimise its GHG emission.



- 3.1 Purchased goods and services
- 3.3 Fuel- and energy-related activities
- 3.5 Waste generated in operations
- 3.7 Employee commuting
- 3.9 Downstream transportation and distribution
- 3.2 Capital goods
- 3.4 Upstream transportation and distribution
- 3.6 Business travel
- 3.8 Upstream leased assets

Due to the conscious and persistent endeavour of Volta, the overall, relevant organisational carbon footprint reduced by almost 13% in 2024. compared to 2023. (on market-based approach).

SCOPE	Activity	tCO <sub>2</sub> e (2023)	tCO <sub>2</sub> e (2024)	Change from '23 to '24	
SCOPE 1	<i>Stationary combustion emission</i>	9 655,42	8 782,20	-9,94%	
	<i>Mobile emissions</i>	201,45	194,40	-3,63%	
	<i>Generated electricity for own purposes</i>	0	25,4	-	
	<b>Scope 1 overall:</b>	<b>9 856,87</b>	<b>9 002,00</b>	<b>-9,50%</b>	
SCOPE 2	Purchased electricity (market-based)	55 597,87	51 139,80	-8,72%	
	Purchased electricity (location-based)	38 450,95	57 206,30	32,79%	
SCOPE 3	UPSTREAM	<b>3.1. Purchased goods and services</b>	10 630,33	5 591,30	-78,62%
		Goods	9 634,97	3 513,40	-174,23%
		Services	995,36	2 437,90	59,17%
		<b>3.2. Capital goods</b>	709,57	1 704,30	58,37%
		<b>3.3. Fuel- and energy-related activities</b>	20 997,74	19 778,50	-6,16%
		<b>3.4. Upstream transportation and distribution</b>	2 022,78	1 196,40	-69,07%
		<b>3.5. Waste generated in operations</b>	1 473,36	919,80	-60,18%
		Waste treatment	1 466,77	908,20	-61,50%
	Waste transport	6,59	11,60	43,19%	
	DOWSTREAM	<b>3.6. Business travel</b>	170,08	55,90	-204,26%
		<b>3.7. Employee commuting</b>	442,94	440,30	-0,60%
<b>3.8. Downstream transportation and distribution of product</b>		744,01	1 004,60	25,94%	
	<b>Scope 3 overall:</b>	<b>37 190,81</b>	<b>31 051,10</b>	<b>-19,77%</b>	
	<b>Total market-based</b>	<b>102 645,55</b>	<b>91 192,90</b>	<b>-12,56%</b>	
	Total location-based	85 498,63	97 259,40	12,09%	

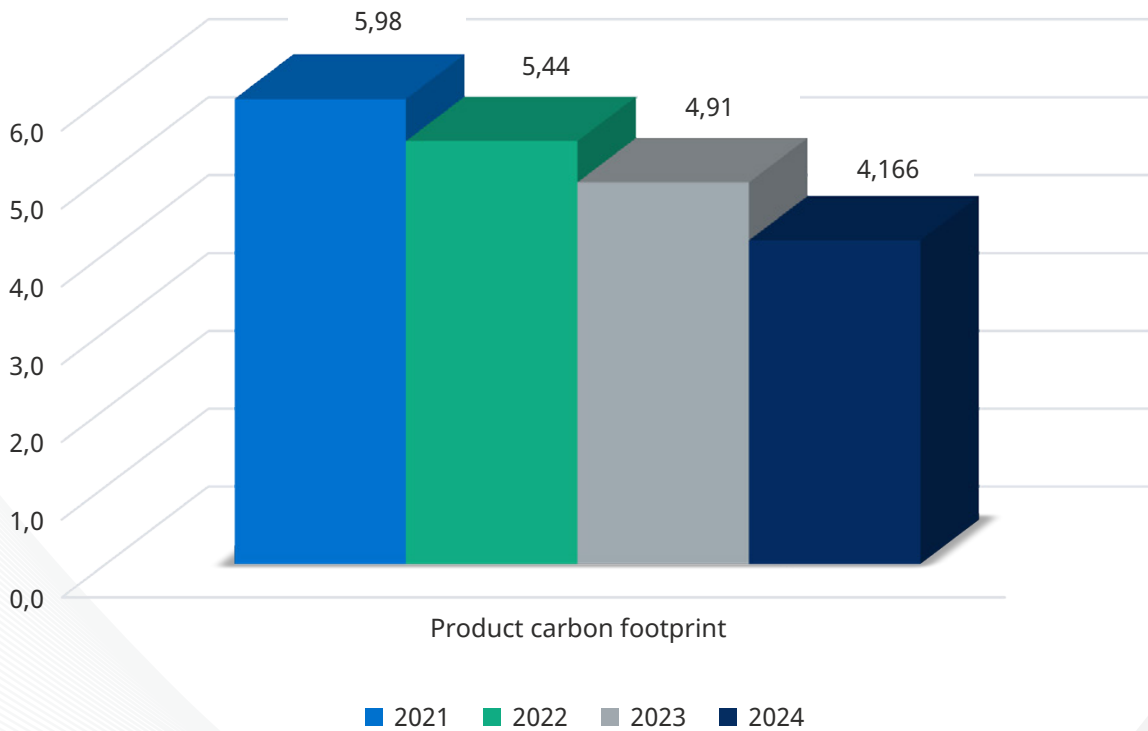
# Carbon intensity

We are proud that our carbon intensity – as one of the most critical topics in our materiality matrix – has developed, hence decreased steadily since 2021. From 2023. to 2024. the reduction is 15%. This is due to the reason that our intensity has developed, because we have reached the full scale-up of operation throughout 2022, therefore the overall performance of our operation has risen effectively, despite the fact that the production volume decreased in 2024. compared to 2023. Additionally,

we have implemented energy-efficiency related investments and optimization, such as, replacement of the evaporative refrigerant and fine-tuning the energy recovery system.

Reducing our GHG emissions is a strategic point. At Volta, we are aware that our activity is highly energy-intensive, so the sources of the energy we consume are crucial for our future. That is why we strive to use energy from renewable

and sustainable sources. While the dominant feedstock copper, we use, it is 100% recycled material, but we remain committed to continuously improve our overall recycling rate. Therefore, we plan and secure not solely our future scrap copper supply, but other materials we use from recycled material sources, making sure that this significant element of our business operation is safeguarded not only for business continuity, but for sustainability as well.



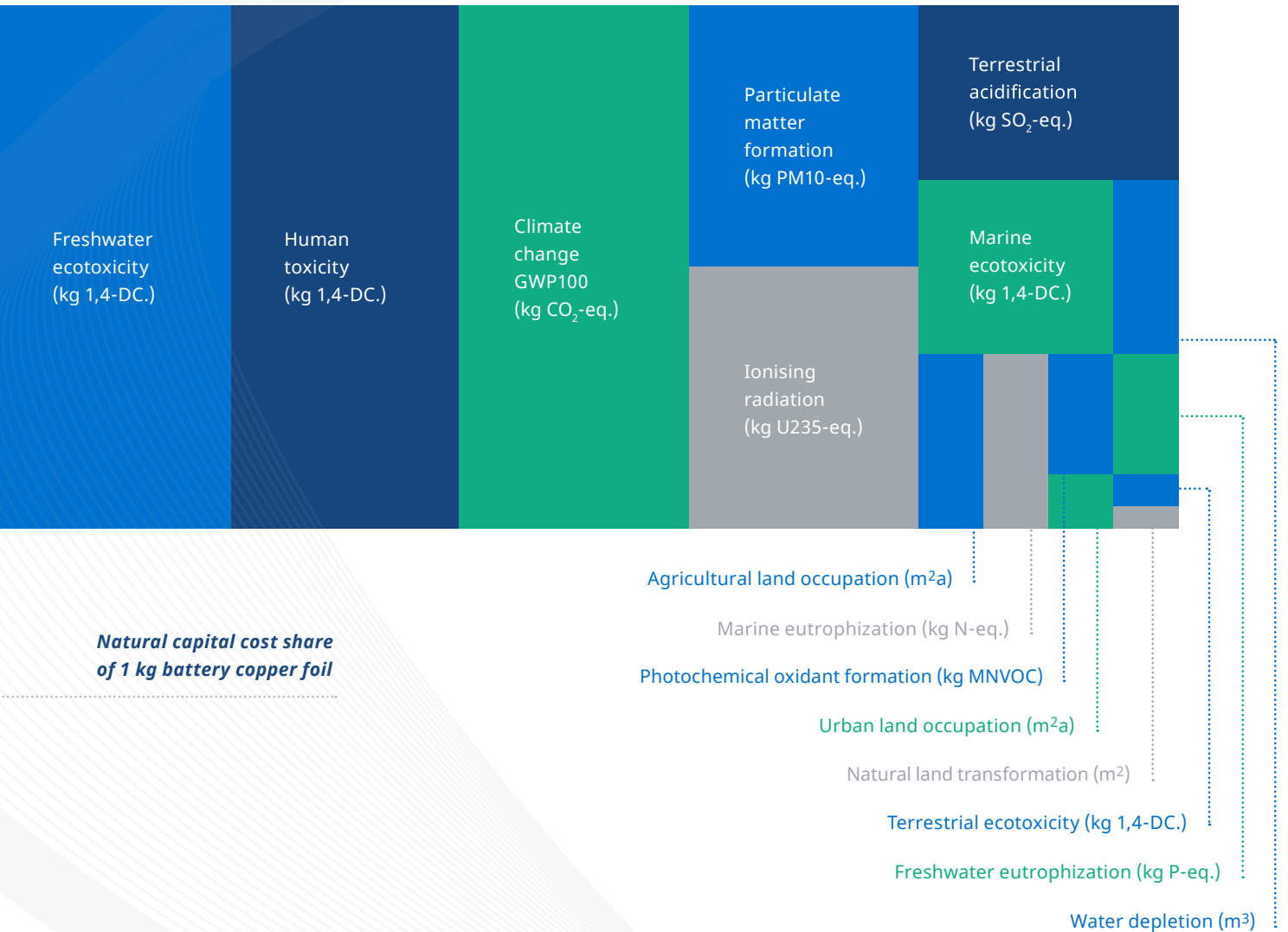
# Life cycle assessment

Beyond analysing the carbon emissions of our processes and technology in 2022, we also conducted a life cycle assessment (LCA) of our products. This marked a significant step forward in understanding the full environmental impact of our products throughout their entire life cycle.

The cradle-to-grave LCA approach evaluates every stage – from raw material extraction and processing (cradle), through manufacturing, distribution, and use, to the recycling or final disposal of the materials (grave).

The primary goal of the life cycle assessment is to guide long-term improvements in our product design by providing insight into the cumulative environmental impacts. Although the LCA study was based on data from 2021, and our production volumes have increased since then, we believe the key focus areas identified remain valid.

Looking ahead, in 2025, Volta plans to update the comprehensive LCA analyses for its main product categories and to obtain Environmental Product Declarations (EPDs). These EPDs will serve as transparent documents to demonstrate the environmental performance of our products.



# Water management



Water is essential for life, yet only a small portion of the planet's vast water reserves is freshwater and suitable for human consumption. At Volta's Hungarian production site, we are fortunate to have access to high-quality and sufficient water resources. In 2024, our total water consumption from the local municipal network was 679,577 m<sup>3</sup>, marking a 21.4% reduction compared to 2023, while our production increased by 6.2%. Responsible water use remains a key pillar of our environmental sustainability efforts.

But Volta is aware of the scarcity of freshwater, so despite the intensive water demand of its technology, it strives to keep the water used in its systems in circulation and provides regular maintenance of the related infrastructure.

Well represents the progress in our water efficiency development ambitions, that we have replaced the contact block's flow-through cooling system with a fully closed circulation system.

We treat and clean this water with reverse osmosis before using it in our manufacturing processes. There is no local well or other source for water supply.

We have one water discharge point with special treatment and cleaning process for technology water.

To ensure the cleanness of this process water we have a water treatment plant within our site. The water treatment plant removes the copper, chromium and sulphates and ensures that only treated and purified water is released into the pipe system. The residue of step is chromium hydroxide sludge which is landfilled.

Water is a critical sustainability factor not only for our current but for our long-term operation and growth as well. Our strategical plan is to expand the production by considering water as a critical element.

"Water is a vital element of sustainability, so we are keen to manage our water consumption with the highest effectiveness we can. Moreover, our water management currently focuses on effectively reusing certain quantity of the water which leaves the manufacturing process. With that said, we've made a major CAPEX investment in our water operation since 2022."

**Péter BALLA**  
Utility Part Manager

**21% less water  
withdrawal  
in 2024.**

# Waste management

Our waste management system controls both hazardous and non-hazardous waste types.

Non-hazardous wastes are mainly packaging materials and municipal waste generated in the factory. These are collected selectively and transported to our qualified waste management partner.

In 2024, hazardous waste comprised 77,1% from our total generated waste during the manufacturing process. This is 11,5% reduction compared to 2022. We treat our special waste from copper-bearing sludge, with our waste treatment partners, who recover the copper content and treat this waste properly. By continuous improvement of the efficiency of our processes, we strive to reduce the amount of waste used in our production.

In our waste yard we selectively collect waste. We hand over our collected waste to qualified partners.

Recycling of the produced copper foil with quality discrepancies is 100%. Preserving our materials and keep them in circularity is the philosophy we believe.

Hazardous waste is collected and stored in a dedicated waste yard in containers and tanks protected by engineering control to fulfil all legal and safety requirements. The material flow within the factory site is done through a closed pipe system, while in smaller portions it is treated by manual handling process in containers.

In 2024 our waste amount projected to 1 kg of copper foil product was 0,16 kg.



# Air emissions

Although our manufacturing site is in an industrial zone far from residential areas, air emissions are under surveillance and control.

The Volta plant at Környe has twenty-nine emission point sources. Six of these are attached to boilers, each used for heat during production. In addition to greenhouse gases, burning gas also releases nitrous oxides (NOx), which are highly reactive pollutants that

can harm respiratory health, contribute to acid rain, and cause various other environmental issues. Twelve of the emission sources are responsible for end-gas scrubbers, where substances used in our manufacturing process – such as copper and sulphuric acid – may be emitted into the atmosphere along with water steam.

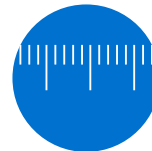
4 emission point sources are connected to the laboratories, and the remaining 7 to generator units.

We measure our emissions based on our legally defined requirements. We have a systematic approach to ensure that we control our air emissions. Our boiler emissions are measured every 3 years, the wet scrubbers every 5 years and the chromium dissolving unit emission point in each year.



## RELIABLE EQUIPMENT

Our pieces of equipment are recently installed and of the newest technology



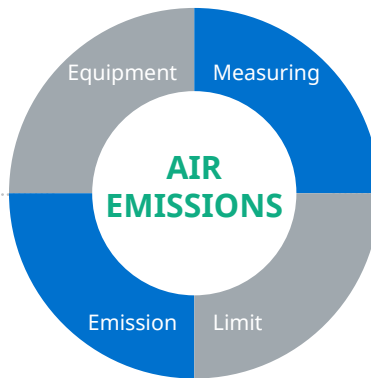
## REGULAR MEASUREMENTS

Our measurement frequency is in line with the risk



## EMISSION TRACKING

We have set 1, 3 and 5 years measurement plans depending on the emissions



## LIMIT VALUES

We comply with our emission limits (e.g. chromium)

# Noise and other nuisances

Our factory site operates 24/7, 365 days a year. This continuous operation requires ongoing facility management support.

Our noise emission comes from the facility management operations, for instance, mainly from the operation of buildings and refrigeration systems. Main noise sources are the facility management equipment and cooling towers.

These systems are operated based on necessity, and we make sure to regularly maintain, and when it is time, renovate them. Daytime traffic can generate some noise, but since we are in an industrial zone, no complaints, or any other issues were reported.

# 6. Our sustainability governance and business ethics

Volta assigned the responsibility of sustainability activities to the ESG manager, who is a member of the management team, and reports to the CEO, ensuring direct access to decision makers by immediate and impactful communication on critical matters. Beyond this formal organizational setup, we manage a sustainability team consisting of the most significant members of the factory.

Our system is based on an ESG Friendly Management approach where the main principles are the following:

“People are the driving force behind sustainability, which is why we invest in training and developing our team in this area. This commitment not only strengthens our Employer Brand but also helps attract candidates who are personally passionate about sustainability.

By openly demonstrating our dedication to sustainable values, we appeal to like-minded applicants and foster pride among our current employees. At Volta, sustainability isn't just a PR message – it's embedded in our culture and reflected in our everyday actions, truly “walking the talk.”

**Tamás SOLYMOS** - Human Resources

**1.** We strictly comply with all the laws and regulations related to environment, health, and safety that apply to our operation activities. Therefore, we have implemented ISO 14001 and ISO 45001 management systems in 2021 to our operations and the first supervision audit took place in 2022. We also acquired the ISO 50001 energy certification in 2023.

In the close future, Volta plans to undergo voluntarily on assessment according to the American Copper Mark standard.

**2.** We would like to arrange a safe working environment provided by relating policies which guarantee the safety of workplace to prevent possible injuries.

Our integrated management system operates according to a common policy in parallel with our specific goals.

The management recognizes the importance of environmental and labour protection and declares our related key principles in the policy:

- Maintenance of a safe working environment that does not endanger environment and health.
- Prevention of work-related health damage and elimination of hazards by risk-management.
- Emphasizing the aspects of accident and fire protection.

- Ergonomic workplace, personal protection, machinery and chemical safety.
- Expressing the necessity of development of our production sites in terms of environmental and occupational safety as well.

Besides complying with the legislation, our internal rule system supports the achievement and control of broader compliance.

**3.** We evaluate EHS risks in all relevant activities, such as development, production, sales, and the establishment of factories. We plan to define more KPIs for environmental and occupational safety performance, which we will continuously monitor, and if necessary, adjust the target values to match with realistic goals.

According to our ‘PR 1042’ procedure we gradually evaluate our performance, while based on our ‘PR 1057’, we check the operation of the system by an annual management review.

Volta issued its commitment and internal regulation on managing business ethical questions on January 1, 2021. This is driven by honesty and transparency, open mindset, and respect. Our business ethics commitment defines the expected behaviours for all levels of staff.

Our approach aims to establish a sound corporate culture where integrity and customer orientation is the main driver. In this program we frame several activities which define the requirements of fair ways of doing business wherever we operate.

Additionally, the critical elements of this initiative are our commitment to social development and responsibility for society. In our next chapter you will find some examples on how we contribute to our local community and act as a driver for improving livelihoods for all.



# 7. Our commitment towards the community

As a member of a global corporate citizen, Volta shall contribute to the national economy and social development by carrying out its responsibilities and obligations, such as the improvement of productivity, creation of employment and sincere payment of taxes and social contributions. This is not only our internal drive, but our external stakeholders expect us to do so as well. Social responsibility is part of the way we operate business.

Volta 2024 has once again prepared a surprise for the young children of its employees for Santa Claus Day. Children up to the age of 14 received a gift package from Santa Claus, who visited the factory in person, and they left their parents' workplace with great joy and a memorable experience.



In 2024, employees also took part in a successful donation campaign for local animal shelters. We collected food and useful supplies for Tappancs Animal Shelter and Tatai Civil Animal Rescue, helping them care for animals in need

Volta places great importance on being an active and responsible member of the local community. Allocating a portion of our profits to address social challenges is a core commitment, including providing support during emergencies and creating opportunities for disadvantaged individuals.



In addition, Volta made a donation to the Soul Support Foundation (Léleksegítő Alapítvány), a nonprofit organization whose work focuses on integrating autistic and Asperger's children into society, raising awareness and supporting their workforce inclusion. Their mission aligns with our values of building a more inclusive and socially responsible community.

Our company is planning to operate a program to enhance the understanding of social responsibility and engage with our employees to extend their involvement. As stated in the boundary section of this report, we are committed to further expand the current scope of this report with the social sustainability and governance chapters as well.

With the contribution of the Hungarian Red Cross, we organised 2 blood donations at Volta in 2024. The staff of the National Blood Service expressed their satisfaction with the participation of our employees, and our aim remains to promote blood donation and further increase participation in this vital initiative.



"Our core responsibility is to uphold strong Environmental, Social, and Governance (ESG) principles throughout every stage of our activity.

We collaborate across departments to enhance resource efficiency, reduce emissions, ensure ethical sourcing, and foster a safe, inclusive workplace.

By embedding ESG into our operations, we support the sustainable growth of the electric mobility sector while creating long-term value for all our stakeholders."

**Katalin NAGY**  
ESG team Leader

# 8. Conclusion

**Thank you for reading our third sustainability report. We are committed to conducting our business in line with sustainability principles, beginning with the environmental pillar – where our operations have the greatest impact.**

In 2021, we conducted a stakeholder review involving partners, authorities, suppliers, and customers to better understand industry expectations regarding sustainability. Based on this input, we carried out a materiality assessment to identify our key environmental priorities and guide our investments and actions.

As a highly energy-intensive industry, our operations contribute significantly to carbon emissions. Recognizing climate change as a critical global issue, we have been continuously measuring our corporate carbon footprint since 2021. This helps us identify the most emission-intensive processes and shape a data-driven decarbonization pathway.

We also completed a Life Cycle Assessment (LCA) of our product in 2021 and plan to update it in 2025, to better understand and reduce the full environmental impact of our product over its entire lifecycle. While climate remains our primary environmental focus, this report also addresses our water management practices and air emissions.

The year 2022 marked the first full-scale operation of our initial production facility, allowing us to begin tracking carbon intensity trends. With our production processes now consolidated, our short-term goal is to define a decarbonization pathway and scale our business sustainably.

Sustainability extends beyond environmental concerns. That's why we are committed to expanding our efforts in social responsibility and governance. In our next report, we will provide deeper insight into our environmental, social, and governance (ESG) initiatives.

**We welcome your feedback and suggestions for improvement.**

# 9. GRI Index

GRI INDICATOR	DESCRIPTION	CHAPTER	PAGE
<b>GRI 2: General disclosures 2021</b>			
<b>Organizational overview</b>			
2-1	Organizational details	This is Volta	6-12
2-6	Activities, value chain and other business relationships	This is Volta	6-12
<b>Strategy and analysis</b>			
2-22	Statement on sustainable development strategy	Foreword	3
<b>Business ethics and integrity</b>			
2-23	Policy commitments	Our sustainability governance and business ethics	30
<b>Stakeholder involvement</b>			
2-29	Approach to stakeholder engagement	Our approach to sustainability	15-18
<b>Reporting practice</b>			
2-3	Reporting period, frequency and contact point	Imprint	35
GRI 1: Foundation 2021	Publish a GRI content index	GRI index	33
<b>GRI 3: Material Topics 2021</b>			
3-1	Process to determine material topics	About this report	5
3-2	List of material topics	Our approach to sustainability	15-18
3-3	Management of material topics	Climate protection	20-25
302-3	Energy intensity	Climate protection	20-25
<b>GRI 303 Water use and sewage</b>			
3-3	Management of material topics	Water management	26
303-1	Water as shared resource	Water management	27
303-4	Water release	Water management	27
<b>GRI 305 Air emissions</b>			
3-3	Management of material topics	Climate protection	20-25
305-4	GHG emissions	Climate protection	20-25
<b>GRI 306 Wastes</b>			
3-3	Management of material topics	Management of material topics	28
306-1	Impact assessment concerning wastes	Waste management	28
306-2	Handling of waste impacts	Waste management	28
306-3	Waste generated	Waste management	28

# 10. Environmental performance metrics

KPI	MEASURE	2021	2022	2023	2024	2023-2024 CHANGE %
<b>Production data</b>						
Total amount produced / sold	t	7 258	11 845	11 845	21 889	6%
<b>Climate change</b>						
Total GHG emissions location-based	t CO <sub>2</sub> e	40 088	58 115	85 499	97 259	14%
Total GHG emissions market-based	t CO <sub>2</sub> e	43 647	65 220	102 646	91 193	-11%
Scope 1	t CO <sub>2</sub> e	9 722	7 883	9 857	9 002	-9%
Scope 2 location-based	t CO <sub>2</sub> e	15 837	26 980	38 451	57 206	49%
Scope 2 market-based	t CO <sub>2</sub> e	18 626	34 085	55 598	51 140	-8%
Scope 3	t CO <sub>2</sub> e	15 298	23 251	37 191	31 051	-17%
Carbon intensity (as per location-based Scope 2)	CO <sub>2</sub> e/t	5,63	4,49	4,15	4,44	7%
Carbon intensity (as per market-based Scope 2)	CO <sub>2</sub> e/t	6,01	5,51	4,98	4,17	-16%
Total electrical energy consumption	MWh	64 549	132 384	188 670	198 633	5%
Total gas consumption	m <sup>3</sup>	2 622 395	3 009 858	5 025 860	4 563 371	-9%
Renewable energy	%	n.a.	6,81	37,00	37,00	-
Electrical energy intensity	MWh/t	8,89	11,18	9,16	9,07	-1%
<b>Water management</b>						
Total water withdrawal	m <sup>3</sup>	405 763	677 538	864 177	679 577	-21%
Water consumed	m <sup>3</sup>	99 018	82 519	109 854	87 352	-20%
Wastewater	m <sup>3</sup>	277 702	580 459	728 521	571 708	-22%
Water intensity	m <sup>3</sup> /t	13,6	7,00	5,33	3,99	-25%
<b>Waste management</b>						
Total amount of waste	t	1 781	2 105	3 425	3 460	1%
Recycling ratio	%	N/A	0,91	0,8	0,81	-
Landfill ratio	%	N/A	0,08	0,13	0,15	-
Incineration ratio	%	N/A	0,004	0,006	0,04	-
Hazardous waste	t	1 567	1 864	2790	2 669	-4%
Waste intensity	t/t	0,25	0,18	0,17	0,16	-6%
<b>Air emissions</b>						
NO <sub>x</sub>	kg	1226	1 456	3765	2881	-23%
CO <sub>2</sub> (boiler emission measurement)	t	3198	4002	10338	9595	-7%
Chromium	g	0.10	0.01	0,06	0,08	33%
Sulfuric acid	kg	637	847	2392	2744	15%
Copper	kg	5	12	40	183	358%

## Imprint

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[www.bayzoltan.hu/en](http://www.bayzoltan.hu/en)

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