



GOING FORWARD TO ACHIEVE CARBON NEUTRALITY



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„We believe we have a responsibility to incorporate integrity and sustainability into every aspect of our business. This includes our approach to managing relationships, funding projects and decision-making.“

Torsten Göbel,
Head of HSE & Sustainability, EEW Group



“We are dedicated

**TO ENSURING THAT
THE WORLD REMAINS
SUSTAINABLE.**

Dear readers,

We believe that decarbonization will only be successful if we, as a company, manage to develop solutions that not only save CO₂, but also bring other benefits, such as faster production processes, improved product quality and increased health protection for employees. Together with strong partners, we are already developing innovative technology solutions that are far more than just climate-friendly and economical.

With this booklet we show you how and why we have set out on the path towards a greener economy.

We see the EEW Group as a pioneer for more sustainable steel pipe construction.

With our commitment we prove that sustainability is a cornerstone of our business activities. A strong team works daily to meet all legal requirements and challenging market and customer demands as well as to optimize our own business and production processes.

This involves collecting a wide range of data e.g. on sheet metal purchases, transportation routes, energy consumption, electricity, wastewater and waste from our

production sites worldwide. Our Environmental Product Declarations (EPDs), sorted by location and product category, and the resulting Global Warming Potential calculated for the EEW Group make the data situation transparent. It provides a realistic insight into all relevant business activities and serves as a basis for planning and implementing optimization measures.

On the following pages you can find out more about the emissions of our production sites, the group-wide climate strategy and successfully implemented climate-friendly projects. The information provides a transparent and understandable overview of the steps we have already taken and those we will take in the future.

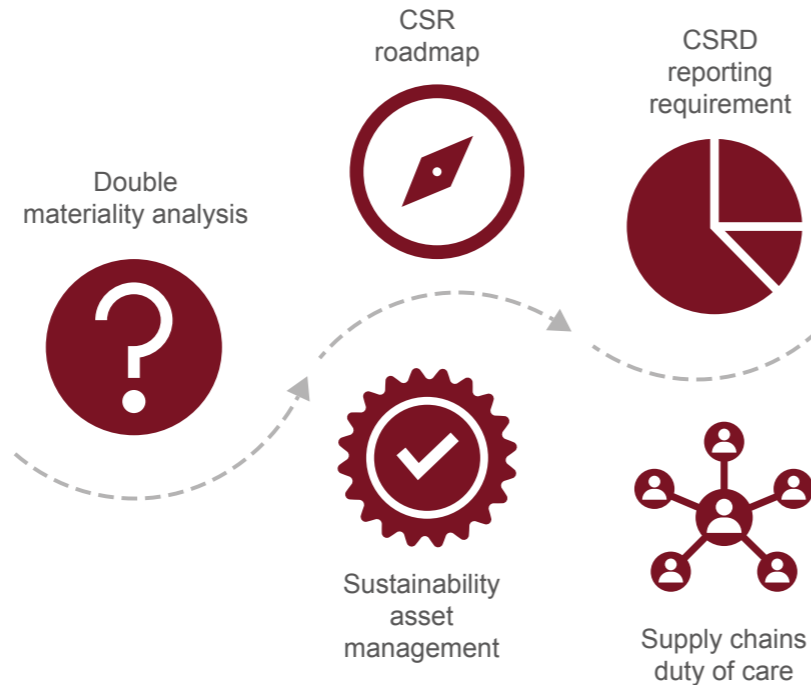
Enjoy reading it.

WHY IS IT SO IMPORTANT TO FOCUS ON THE CORPORATE CARBON FOOTPRINT?

Sustainability is an important pillar of our strategy and a key guideline for us to prepare the EEW Group for the opportunities and challenges of the future. Our focus areas include our green product portfolio, operational eco-efficiency, internal greenhouse gas emissions and those of the supply chain.

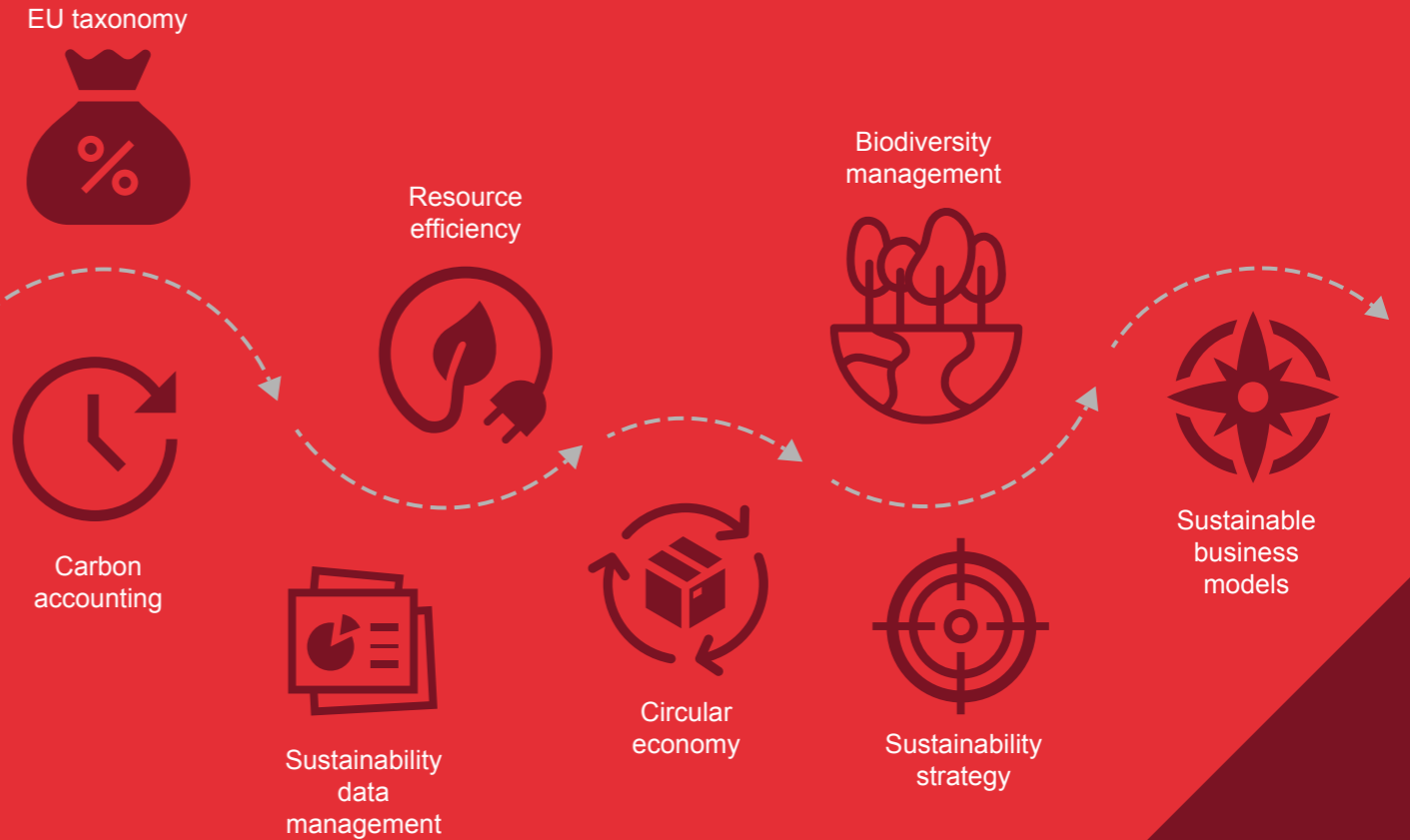
To land large energy projects, transparent data on the corporate carbon footprint is of great importance. Our stakeholders such as banks and customers demand relevant information on the decarbonization of their supply chain and the release of climate-damaging gases in questionnaires and tenders. We are happy to share this data.

As EEW Group, we are assessed according to national law, as our headquarters are in Erndtebrück, Germany. The German government has set a target to achieve net-zero emissions by 2045 and has therefore already introduced a strict reporting system.



We will follow this and do our share to combat climate change. By increasing the efficiency of internal processes, we save resources and reduce costs. This makes us more profitable and supports our sustainability goals.

By sharing knowledge about sustainability initiatives between all EEW facilities, we continuously gain know-how for the entire EEW Group.



HOW DO WE CALCULATE CCF WITH EPD* DATA?

PROCESSING DATA MODEL

Exemplary representation of the processing data model



Mill 1
Product Group A
Product Group B



Mill 2
Product Group C



Mill 3
Product Group A
Product Group D

PREFORMATTED EXCEL SHEET
data of e.g. plate purchase with number of transport, energy consumption, waste volumes, water quantities



STANDARDIZED EPD
KIWA for location-based product groups



CALCULATE KPI GLOBAL WARMING POTENTIAL / CO₂eq
EEW Group



GWP / CO₂eq
Mill 1



GWP / CO₂eq
Mill 2



GWP / CO₂eq
Mill 3



SUM OF GWP / CO₂eq
EEW Group

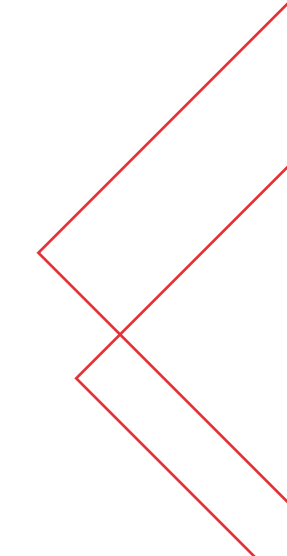


Global Warming Potential / CO₂eq
EEW Group



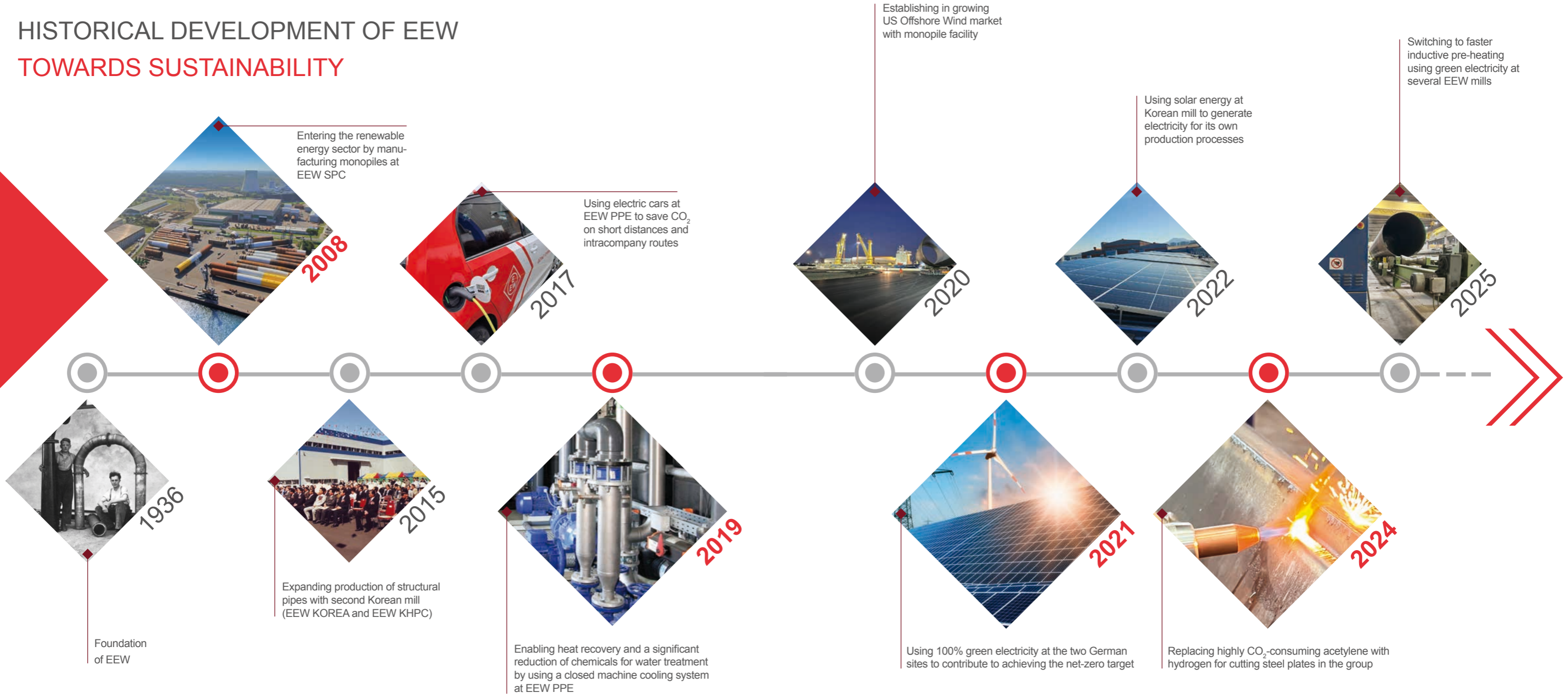
*Environmental Product Declaration (EPD)

An EPD is defined by International Organization for Standardization (ISO) 14025 as a Type III declaration that quantifies environmental information on the life cycle of a product to enable comparisons between products fulfilling the same function. The EPD methodology is based on the Life Cycle Assessment (LCA) tool that follows ISO series 14040. EPDs are primarily intended to facilitate business-to-business transactions, although they may also be of benefit to consumers who are environmentally focused when choosing goods or services. Companies implement EPDs in order to improve their sustainability goals and to demonstrate a commitment to the environment to customers.

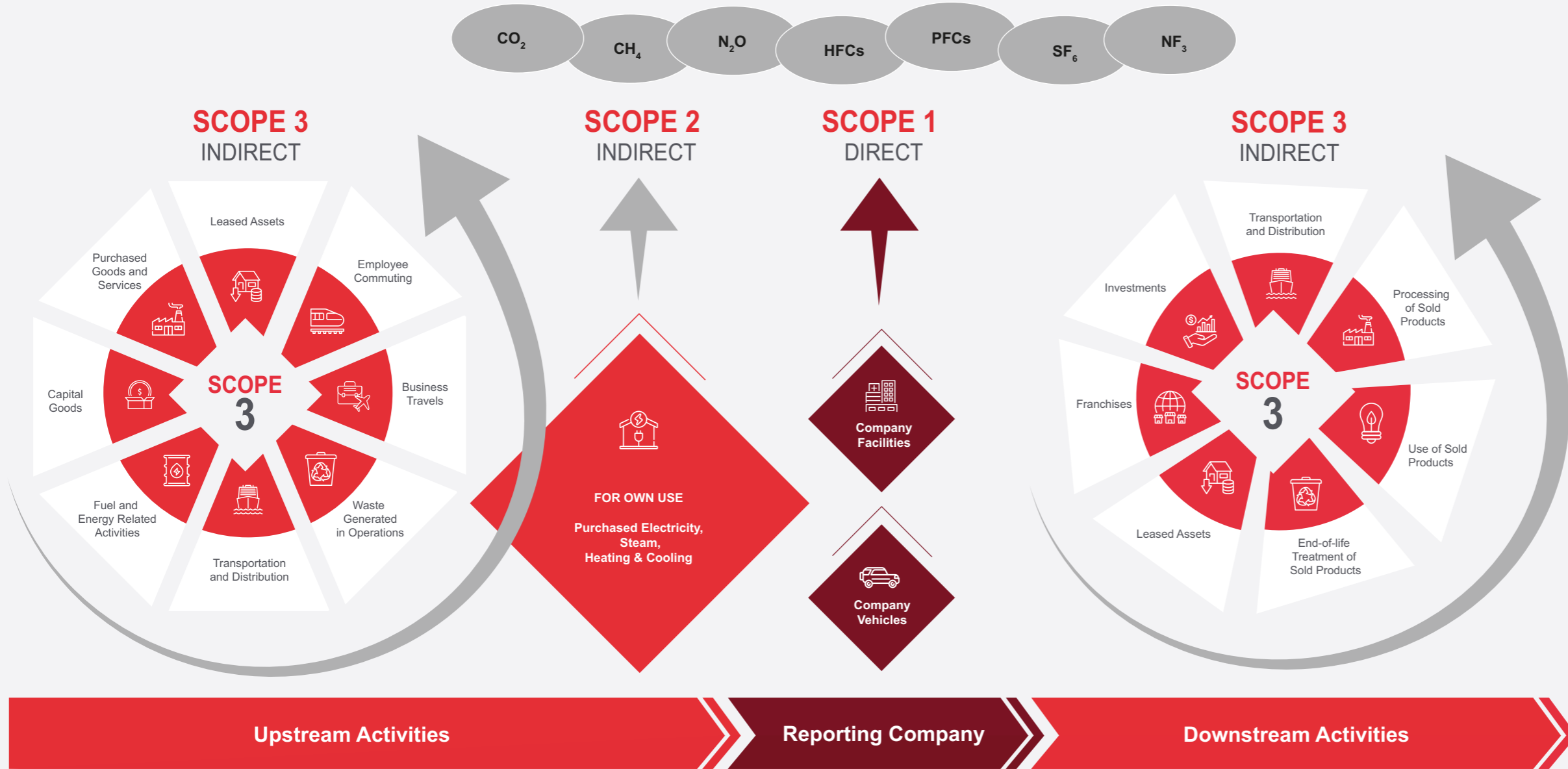


Download EPDs now.

HISTORICAL DEVELOPMENT OF EEW TOWARDS SUSTAINABILITY



MATERIALITY ASSESSMENT AND SCOPE 1 - 3



TOTAL EEW GROUP CO₂eq FOR SCOPE 1, 2 & 3

Scope 1:

9,525 t_{CO₂eq}

Scope 2:

11,608 t_{CO₂eq}

Scope 3:

1,645,569 t_{CO₂eq}

The Corporate Carbon Footprint contains relevant information on the greenhouse gases generated within the company itself (Scope 1), by energy suppliers (Scope 2) or in the upstream and downstream supply chain (Scope 3).

SCOPE 1: Includes the direct release of climate-damaging gases within the company.

SCOPE 2: Includes the indirect release of climate-damaging gases by energy suppliers.

SCOPE 3: Includes the indirect release of climate-damaging gases in the upstream and downstream supply chain. The sum of the greenhouse gases, the so called Global Warming Potential (GWP), determined for each site, plus non-product-relevant activities such as business trips, results in the Corporate Carbon Footprint (CCF).

MANUFACTURING SUBMERGED ARC WELDED PIPE SOLUTIONS GLOBALLY

EMISSIONS OF EEW GROUP

PRODUCTION SITES

*EEW AOS under construction

EEW SPC Rostock

👤 1,000 🏭 168,828 t

Scope 1:	Scope 2:	Scope 3:	CO ₂ eq
2,927 t	48.4 t	651,021 t	

EEW PPE Erndtebrück

👤 450 🏭 56,698 t

Scope 1:	Scope 2:	Scope 3:	CO ₂ eq
4,648 t	0 t	206,678 t	

EEW Malaysia Pasir Gudang

👤 250 🏭 37,700 t

Scope 1:	Scope 2:	Scope 3:	CO ₂ eq
390 t	3,313 t	140,812 t	

EEW Korea Sacheon

👤 210 🏭 116,806 t

Scope 1:	Scope 2:	Scope 3:	CO ₂ eq
949 t	5,629 t	413,495 t	

EEW KHPC Gwangyang

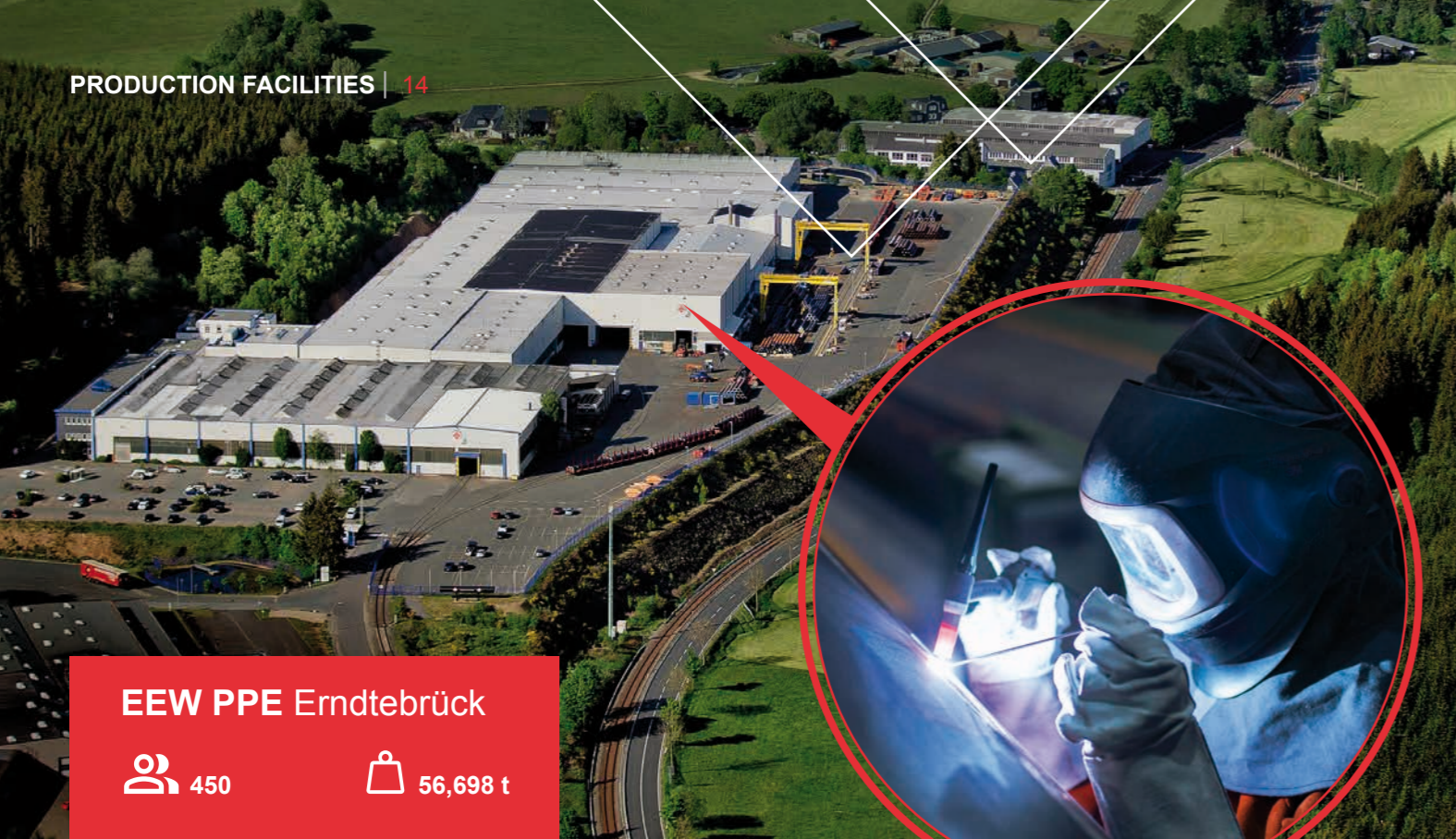
👤 90 🏭 64,923 t

Scope 1:	Scope 2:	Scope 3:	CO ₂ eq
612 t	2,618 t	233,563 t	

- 👤 Employees
- 🏭 Production Capacity
- 📏 Monopiles
- 🏗️ Structural Pipes
- 📏 Pin Piles
- 📏 Line- & Process Pipes
- 📏 Clad Pipes

The EEW Group, headquartered in Erndtebrück, is opening up new dimensions for the energy supply of tomorrow. The company is a leading specialist in the production of longitudinally welded pipes and has also made a name for itself as a pioneer in the production of monopiles. With a production capacity of more than 150 monopiles per year, the EEW Group can make a significant contribution to the global expansion of offshore wind energy. More than 2,000 employees at six locations in Germany, South Korea, Malaysia and the USA* realize pioneering solutions in the construction, line and process pipe sector for demanding media and a wide range of applications, but especially for the renewable energy sector. In addition to steel pipes for monopiles, pipes for jacket constructions and piles, EEW offers additional services such as coating or the assembly of secondary steel components.

*This location is not included in our Corporate Carbon Footprint.



EEW PPE Erndtebrück

450 56,698 t



Scope 1:
4,648 t _{CO₂eq}

Scope 2:
0 t _{CO₂eq}

Scope 3:
206,678 t _{CO₂eq}

EEW Pipe Production Erndtebrueck GmbH & Co. KG (EEW PPE) was founded in 1936 and is the headquarters of the EEW Group. The special feature of the Erndtebrück mill, with around 450 employees, is the exceptionally broad product portfolio. In addition to carbon steel pipes used for conventional jacket constructions, EEW PPE processes steels in high-alloy and low-alloy grades, duplex and super-duplex steels, as well as stainless steels and clad materials.

Sustainability Facts:

- In Erndtebrück, we are developing and testing more sustainable solutions that will be used throughout the group in the future, such as oxy-fuel cutting with hydrogen and inductive pre-heating.
- Followed by EEW SPC, the EEW PPE plant has also been supplied with CO₂-neutral electricity since 2021.



EEW SPC Rostock

1,000 168,828 t



Scope 1:
2,927 t _{CO₂eq}

Scope 2:
48.4 t _{CO₂eq}

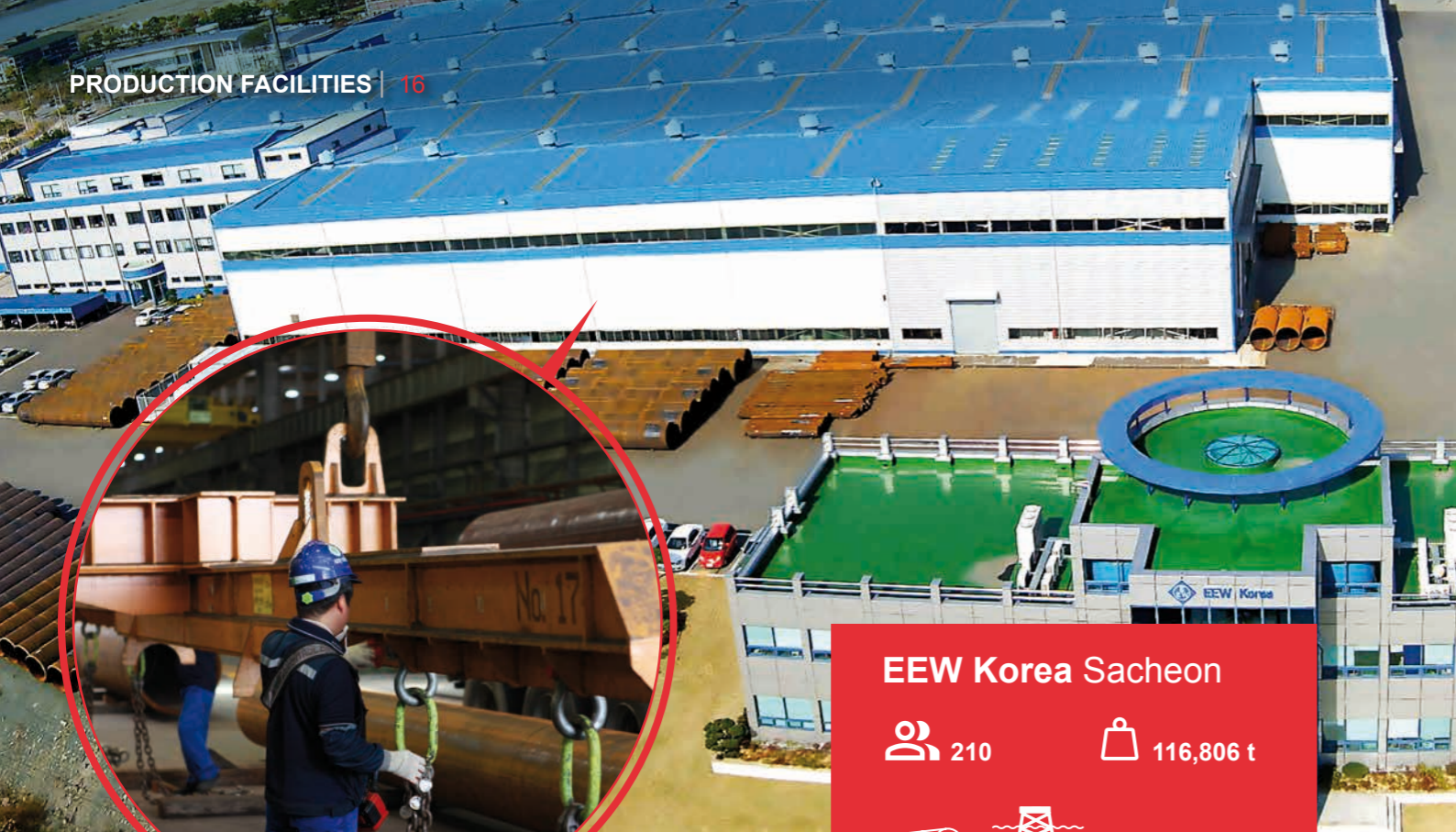
Scope 3:
651,021 t _{CO₂eq}

EEW Special Pipe Constructions GmbH (EEW SPC), located at Rostock's port, is a specialist in the production of steel pipe structures and associated pipe components for the offshore wind industry.

More than 1,000 employees at EEW SPC create innovative solutions for the sustainable energy sector. With the successful production of more than 2,300 monopiles, which serve as foundation piles for offshore wind turbines, EEW SPC has emerged as one of the market leaders for the production of this type of foundation.

Sustainability Facts:

- With a service life of more than 30 years, it only takes 2.5 to 7 months for a wind turbine to become climate-neutral.
- Rostock Port is already climate-neutral today. From 2026/27, an electrolysis plant will produce green hydrogen to be used by the companies and thus further optimize the ports carbon footprint.



EEW Korea Sacheon

210 116,806 t



Scope 1:

949 t CO₂eq

Scope 2:

5,629 t CO₂eq

Scope 3:

413,495 t CO₂eq

EEW Korea Co. Ltd. was opened in Sacheon on the southern coast of South Korea in 2001. The plant, with a production capacity of 125,000 tons, supplies the markets in the Far and Middle East as well as the American market. EEW Korea guarantees efficient production of longitudinally submerged arc welded steel pipes for a wide range of applications in the offshore, process and construction industries.

Sustainability Facts:

- Up to 1.5 megawatts of electricity can be generated by the solar power plant at the roof of EEW Korea.
- The first successful tests for the implementation of oxyfuel flame cutting with hydrogen point to a short-term implementation in ongoing production operations.



EEW KHPC GwangYang

90 64,923 t



Scope 1:

612 t CO₂eq

Scope 2:

2,618 t CO₂eq

Scope 3:

233,563 t CO₂eq

EEW Korea Heavy Pipe Construction Co. Ltd. (EEW KHPC) was opened in GwangYang City in 2015. With three roll bending machines capable of processing plates up to 6.1 m in length and extensive welding capacities, EEW KHPC produces large-dimension structural pipes and pipe components, principally for the offshore wind industry. Direct access to the port facilities in GwangYang City enables smooth product transportation.

Sustainability Facts:

- Green hydrogen instead of LPG gas is used for oxy-fuel cutting and preheating process.
- The electricity required for pipe production will soon be covered by green electricity produced by a large solar plant currently under construction.



EEW Malaysia Pasir Gudang

250

37,700 t



Scope 1:

390 t CO₂eq

Scope 2:

3,313 t CO₂eq

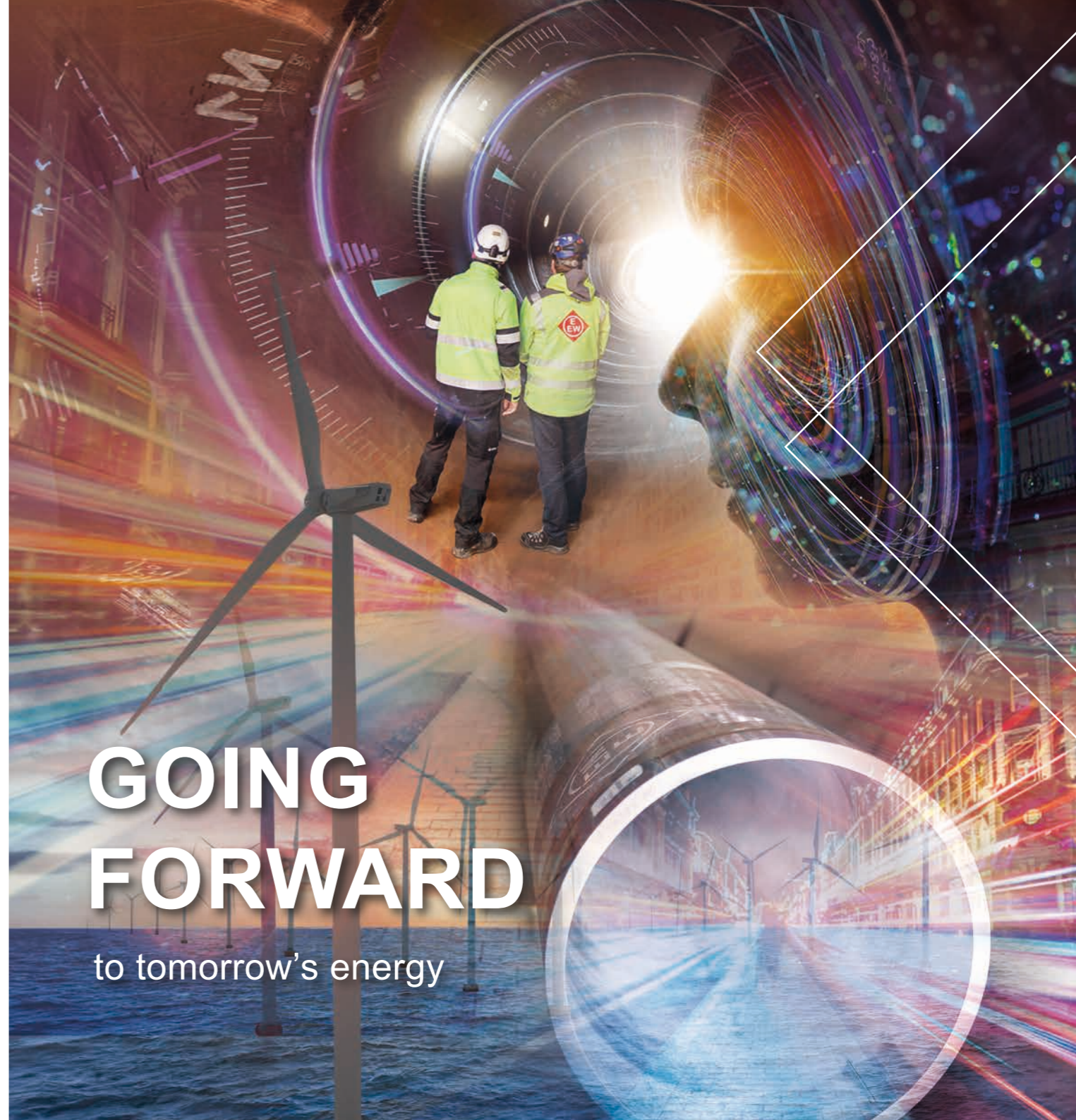
Scope 3:

140,812 t CO₂eq

EEW Malaysia SDN BHD has the perfect conditions to produce large structural pipes and pipe structures. The mill, which was opened in 2008, is located near Pasir Gudang at the Malaysian south coast. EEW Malaysia supplies to customers in Southeast Asia, Oceania and Australia in particular with pipe solutions in both the off-shore wind and line pipe sectors.

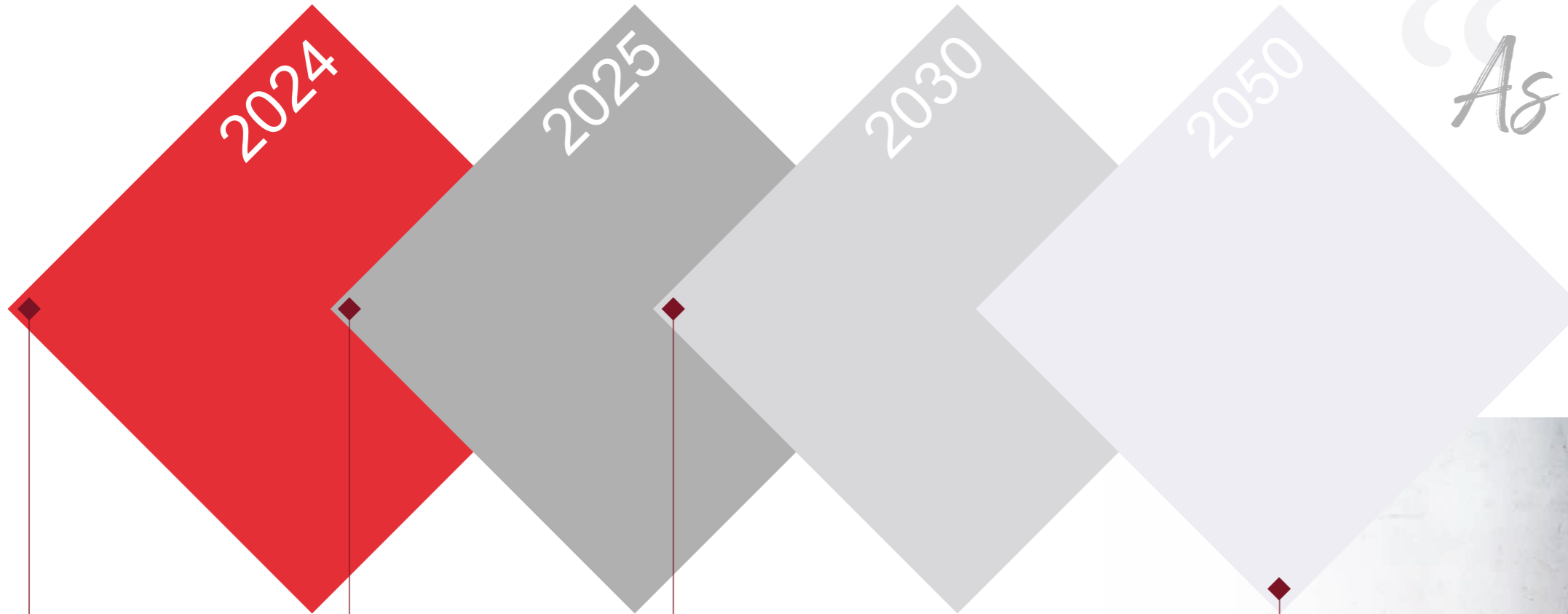
Sustainability Facts:

- Renewing compressor control system to create more continuous pressure and thus save electrical energy.
- Exterior lighting was switched from standard to LED.
- Saving water by collecting rainwater used as process water in production.



GOING FORWARD

to tomorrow's energy



We published verified EPDs and the CCF Report.

We only choose carbon neutral energy suppliers in Europe and the USA (Scope 2).

We reduce greenhouse gas emissions generated within the company (Scope 1) and by our energy suppliers (Scope 2) by 50% (based on 2021).

We operate climate-neutrally as a group of companies (Scope 1 - 3).

“As a global team

WE KEEP THINGS MOVING FORWARD WITH FULL COMMITMENT, PARTNERSHIP AND A DRIVE FOR CONTINUOUS IMPROVEMENT.



Christoph Schorge,
CEO EEW Group

An interview with Nele Wolters about her work as Junior Manager Energy & Climate at EEW Group

Nele Wolters, 22 years old

Career Path: Dual studies in Business Administration combined with an apprenticeship as an industrial clerk.

Main Tasks:

- Corporate Carbon Footprint reporting
- Data collection and consumption analysis for all EEW facilities
- Handling sustainability questionnaires from clients and reporting on environmental platforms like EcoVadis and CDP



A JOB WITH A FUTURE – FOR THE FUTURE

Why did you want to become a Junior Manager for Energy & Climate?

Nele: After my training, I happened to join the HSE department. A position became available, I was asked and I thought “Why not give it a try?”. It wasn’t until I worked on my final thesis, which focused on energy consumption, that I realized how much sustainable projects – ones that bring about real optimizations – fascinated me.

What qualities do you possess that help you achieve your goals?

Nele: My job involves changing mindsets, processes and structures. For that, you need patience and a healthy dose of assertiveness. I had to develop those skills first, but with support and trust from my department head and colleagues, I was able to grow quickly in that regard. Empathy and a positive outlook are also crucial.

Do you believe we can still stop global warming?

Nele: Completely stopping it seems unlikely since the process has already advanced too far. But I sincerely hope we can significantly slow it down. The EU’s goal of a climate-neutral economy by 2050 gives us some time to implement further measures to reduce CO₂. The challenge is that different companies and regions around the world view sustainability so differently. Even the legal framework isn’t consistent. While the first steps have been taken, there’s still a lot left to do.

What specific steps has the EEW Group already taken?

Nele: First, we centralized the collection of relevant sustainability data across all sites. This includes metrics like CO₂ consumption, waste volumes in tons and recycling rates. That was the hardest part initially because we had to inform our colleagues worldwide that, due to EEW Group’s headquarters being in Germany, we report under German law, which has strict requirements. Next, we developed a climate strategy with milestones through 2050, which acts as a roadmap. This helps prioritize projects and motivates colleagues to take on new tasks, like company-wide CDP reporting. When everyone pulls together, the work becomes even more enjoyable.

We also have verified EPDs for our entire global product portfolio. These are an important foundation for determining our corporate carbon footprint.

Major milestones can be ticked off. What other measures should be highlighted?

Nele: Definitely hydrogen cutting. For decades, we used CO₂-intensive acetylene for various flame-cutting processes. Together with a partner company, we already managed to switch a part of our flame-cutting systems at our Erndtebrück site – and even in a pilot project in Korea – to hydrogen. Operators’ resistance has been gone after initial tests. Everyone was convinced: the quality of the cuts improved, speed increased, employee health was better protected and maintenance was reduced thanks to more durable components.

Great changes for a more sustainable future. How important is environmental protection to you personally?

Nele: Very important. Whether it’s nature or other people, we share this planet and all of us want a “good life.” I want to raise awareness and encourage mindfulness.



What do you hope for the future?

Nele: Regarding people, I hope they approach the world with more openness, don’t fear change, embrace new ideas and take action. Sustainable solutions are often more economical than people initially think, especially considering CO₂ taxes or import tariffs. Searching for sustainable solutions can truly drive innovation. For my future at EEW, I aim to establish myself as a sustainability expert by pursuing certified training and learning from experienced colleagues. I would also like to keep the option of a Master’s degree open.

One last question:

What everyday habits have you become more conscious of?

Nele: I’ve definitely become more diligent about separating waste and conserving electricity.

Thank you, Nele, for this truly insightful interview.

SUSTAINABLE INITIATIVES TO REDUCE EMISSIONS

We are actively committed to reducing the emissions of our group of companies. The emissions that can be directly influenced by a company are categorized as Scope 1 and Scope 2. On the following pages, we present some of our sustainable initiatives.



Oxy-fuel cutting with hydrogen

With this initiative we have been able to replace the use of highly CO₂-consuming acetylene with hydrogen for cutting steel plates. The new technology is already being successfully used in production at EEW PPE in Erndtebrück. Current tests at facilities in Korea also show promising results.

This innovative initiative demonstrates that sustainable solutions can also be economically beneficial. In the future the project will be further tested and implemented across the corporate group, taking another step towards achieving net-zero emissions.

~ 12 %

faster in cutting process

~ 50 %

fewer costs for wearing parts

~ 80 %

fewer fine dust pollution



Inductive pre-heating and soaking

In order to monitor temperatures more precisely, improve the quality of the end product and save energy, we have introduced inductive pre- and post-heating in EEW PPE production.

~ 75 %

fewer heat loss

~ 80 %

faster pre-heating per pipe

~ 0 %

risk of hydrogen-induced cracks



Solar energy in EEW Korea

EEW Korea has installed solar panels and thus has taken an important step towards CO₂ neutrality. The solar power plant on the roof of the Sacheon facility can generate up to 1.5 megawatts of electricity.



Green power

Since 2021, the two German sites in Erndtebrück and Rostock are supplied with 100% green electricity.

THE RATIO

Scope 1: 0,4 %
Scope 2: 0,5 %

1%

Scope 3:
99%

When taking a closer look at the emissions of the EEW Group, the emissions generated in the upstream and downstream supply chain (Scope 3) account for the largest share.

In comparison Scope 1 and 2 emissions are significantly lower, but they constitute the portion that the company can influence independently. This demonstrates that the possibilities for reducing the EEW carbon footprint are limited and heavily depend on external factors.

Nevertheless, we are fully committed to achieving CO₂ neutrality, and every initiative contributes to making a difference.

GREEN STEEL – A KEY TO REDUCING OUR CORPORATE CARBON FOOTPRINT

A central lever in our efforts to sustainably reduce our Corporate Carbon Footprint lies in optimizing our supply chains and promoting innovative technologies – chief among them, the development and use of green steel.

Steel is a crucial material for our production and forms the foundation of our value creation. However, conventional steel production is one of the most energy-intensive processes, accounting for approximately 7-9% of global CO₂ emissions.

Our reliance on steel is particularly evident in the area of so-called Scope 3 emissions. These emissions do not originate directly within our operations but occur throughout the entire upstream supply chain, especially in the production of the steel plates we process.

This is where green steel comes into play: steel produced using innovative methods such as green hydrogen or electrified blast furnaces powered by renewable energy can drastically improve CO₂ balances – even enabling production with nearly zero emissions.

Supporting Innovative Solutions and Regulations

An important aspect of our efforts is supporting measures like the Carbon Border Adjustment Mechanism (CBAM). This European Union initiative introduces a CO₂ price for imported goods such as steel, based on the carbon intensity of their production. CBAM motivates companies worldwide to adopt more sustainable technologies while ensuring a level playing field for European companies already investing in climate-friendly processes.

We view CBAM as a significant catalyst for driving investment in green steel. As end users it is essential for us that the green steel market grows and becomes economically competitive.

Our goal is to integrate green steel into our production processes as early as possible, enabling us to gradually reduce our Scope 3 emissions.

We are convinced: by joining forces and maintaining a clear focus on sustainable solutions, we can shape a climate-friendly future – for us, our customers and future generations.

CONTACT & MORE

Your interest in our commitment to sustainability means a lot to us and motivates us to continue working towards a climate-friendly future. Together we can make a positive difference – for our company, our environment and future generations.

If you have any questions or suggestions, we are looking forward to speaking with you!



Torsten Göbel
Head of HSE & Sustainability



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Energy & Climate Manager



Nele Wolters
Junior Manager Energy & Climate



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