

**1KOM
MA5°**

1KOMMA5°

SUSTAINABILITY

REPORT 2023



2023

WELCOME TO THE 1KOMMA5° SUSTAINABILITY REPORT

We are delighted to share our sustainability report for 2023, which is the second full business year of 1KOMMA5° after being founded in late 2021. As social and environmental challenges are becoming increasingly urgent, we are more aware than ever of our responsibility as a company. We are proud not only to provide environmentally responsible energy but aim to provide the most sustainable product possible by decarbonizing our value chain and ensuring ESG compliance. We've reached the first milestones towards this goal by calculating our corporate carbon footprint and evaluating data along the business activities. Next on the roadmap are our materiality assessment and gap analysis to ensure an adequate ESRS setup for our first reporting year in 2025, while also incorporating positive impact reporting.

To live on wind and sunlight forever for free

By the end of 2023, we had installed more than 170,000 energy systems in our customers' homes, businesses, and organizations. These systems are already making a significant

positive impact on the transition to renewable energy and play a vital role in the decarbonization of buildings.

As of September 2024, around 35,000 systems are connected to our Heartbeat AI app, directly linking customers to the electricity market. This connection significantly reduces electricity costs for users by optimizing energy consumption, ensuring solar and wind power are used when available, and storing excess energy for later use.

Heartbeat AI and Dynamic Pulse platform users will help stabilize the grid by primarily consuming renewable energy, rather than during peak demand for fossil fuel-based energy. It seems intuitive, right?

Leaving a habitable world for our children and grandchildren is one of the greatest challenges of our time — so let's focus on achieving it, house by house, street by street.

The best is yet to come!

1 KOM MA 5°



Philipp Schröder

Co-Founder & CEO
1KOMMA5°



OUR MISSION

At 1KOMMA5° we battle climate change on a daily basis.

Our mission is to empower our customers to become climate heroes and actively contribute to the change by decarbonizing their homes. We aim to fast-track the energy transformation to renewable energy by offering smart-dynamic energy tariffs to our customers. Hereby, we are simultaneously delivering cheaper and cleaner electricity that is mainly produced by wind and sun.

IT IS A WIN-WIN-WIN FOR EVERYONE!

We increase the amount of primarily renewable energy used and saved, disconnecting our customers from big oil dependency at times when there is no sun or wind.

With each system we install, we reduce grid consumption during peak periods, helping to prevent emissions from fossil-fueled power plants used for on-demand energy generation.

To deliver the product with the lowest possible carbon impact and to become an even more climate ESG-aware company, we strive to lower our emissions related to 1KOMMA5° business activities. To strengthen our ESG targets, we implemented the first set of policies, which consisted of a human rights declaration, a supplier code of conduct and a sustainability policy in 2023.

We focus on



Clean energy



Helping to promote sustainable cities and households



Fighting the big oil dependency



Mitigating climate change

Leading by example!

- We start the energy transformation by installing PV systems at our own locations to power the daily office and warehouse needs.
- We are transforming our fleet to renewable energy alternatives, that can be charged by our PV systems.
- We are always looking at solutions to further reduce the emissions related to our installed products.
- We encourage the use of public transportation in areas where possible.



KPI-OVERVIEW

**1,606**

FTE

**2.8%**

Gender Pay Gap

**116,082** tCO₂

Corporate Carbon Footprint

**170,000**

Installed systems

**168**Soccer fields of PV
installed in 2023**12,056,958** tCO₂Total CO₂ savings by 01.01.2024**6,257.5** Mio €/tCO₂**1,784.72** FTE/tCO₂Positive net impact of one Full Time
Employee & one million euro in Turnover**1,025,871** mWhEnergy produced by all installed
systems in 2023

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**1KOM
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**1KOMMA5° IS THE
ONE-STOP-SHOP FOR
ENERGY SOLUTIONS**

1

GLOBAL REACH

1KOMMA5° is the provider of the Heartbeat AI energy software platform. Additionally, we create a virtual power plant that pools and connects customers' photovoltaics, electricity storage, heat pumps and charging points to the energy markets to increase the profitability of connected energy systems. We offer our customers a one-stop-shop to purchase and install customized and intelligent energy system solutions.

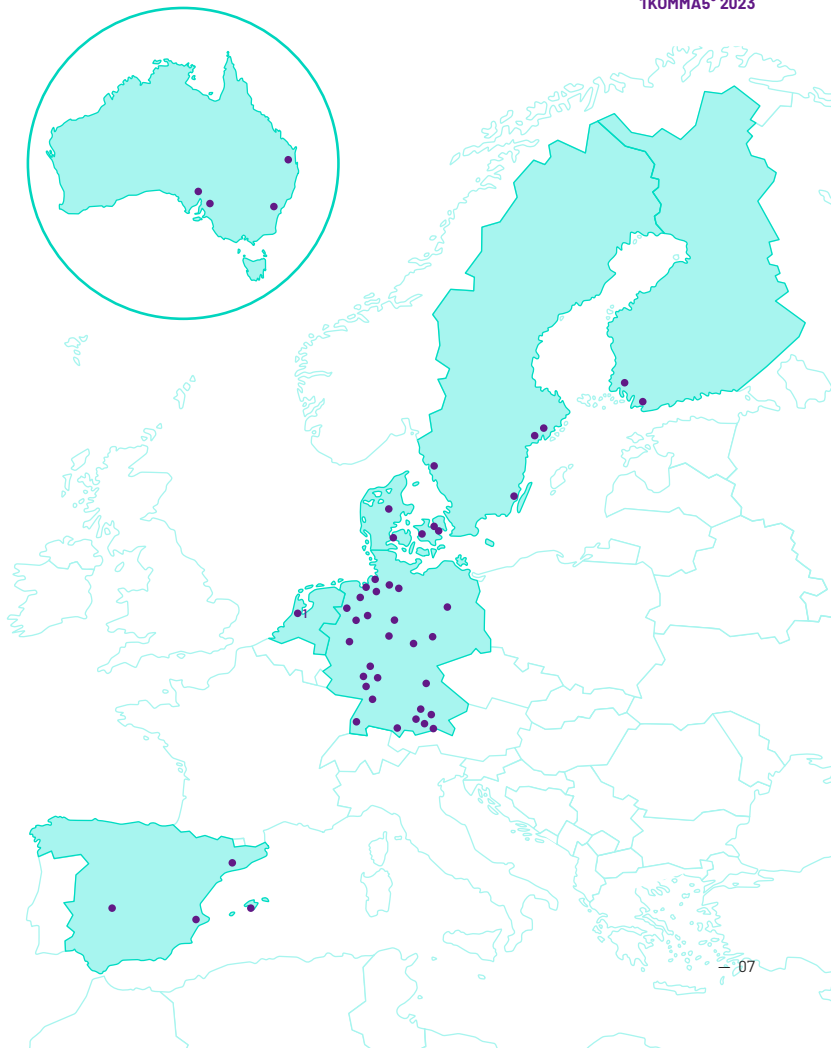
To accelerate international growth, we acquire leading companies in the electrical sector with a particular focus on photovoltaic systems, charging infrastructure and heat pumps. In return, we are offering entrepreneurs the use of software solutions, centralized services, bundled purchasing, growth capital and a reverse shareholding at 1KOMMA5°.

The aim is to develop a world-wide, market-leading hard- and software platform capable of converting 500,000 buildings per year to climate-neutral power generation, heating and mobility.

In 2023, 1KOMMA5° operates over **70 sites with around 1,600 employees in Germany, Sweden, Finland, Denmark, Spain and Australia.**

What drives our purpose?

The challenge is that around 107.6 million tonnes of CO₂ result from residential buildings and another 206.9 million tonnes of CO₂ from the energy sector in Germany in 2023 alone. Worldwide this number adds up to 57 GtCO₂e. If we continue on this path, we will exceed the 2°C global warming benchmark by far! On the other hand, the installer and distribution landscape in the renewable installation industry mainly consists of fragmented installers or utility companies, charging above market prices. The growing energy demand for mobility, heating, and other sectors further intensifies the pressure on this already critical issue, particularly as fossil fuels remain a major contributor.



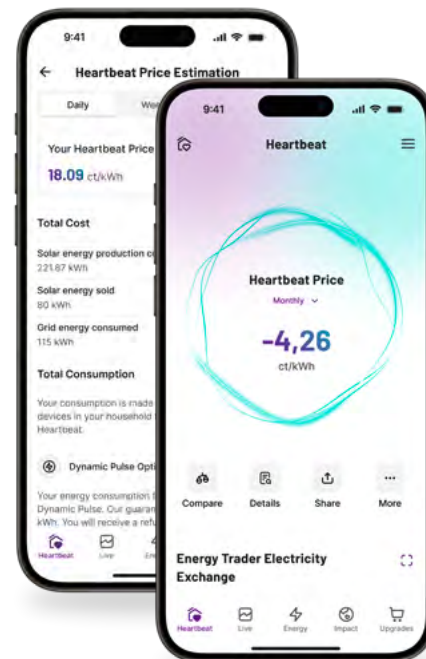
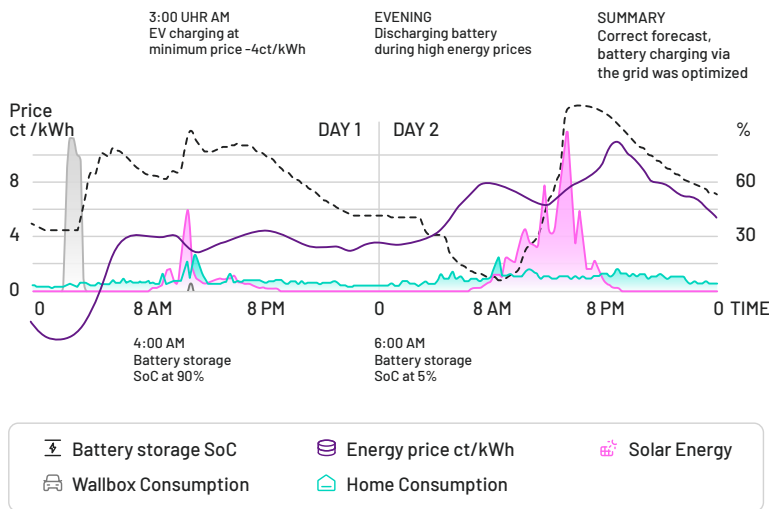
PRODUCT

HEARTBEAT AI AND DYNAMIC PULSE

Heartbeat AI is an industry changing end-to-end energy solution that harnesses the natural rhythm of wind and sun to always provide the cheapest and cleanest electricity. By optimizing complex supply and demand forecasts, the system buys electricity when it is cheap and sells it when it is expensive – leveraging flexible loads such as solar systems, heat pumps, HVAC, batteries and electric vehicles together with Dynamic Pulse, our dynamic electricity tariff.

By transitioning from individually optimized components to a fully integrated 360° solution, Heartbeat AI simplifies complex cost and revenue streams into a single, comprehensive metric: the Effective Electricity Price.

This approach not only maximizes efficiency and cost savings for our customers but also promotes sustainable and clean energy consumption, positioning 1KOMMA5° at the forefront of the smart energy revolution.





**1KOM
MA5°**

**1KOMMA5°
ENVIRONMENTAL
IMPACT**

2

ENVIRONMENTAL

POSITIVE IMPACT

Our positive impact stems from the deployment of renewable energy solutions across the B2C and B2B sectors. These solutions enable customers to lower their CO₂e emissions compared to the national grid average. The reduction is further amplified when heating and mobility are electrified as well. Heartbeat AI, combined with Dynamic Pulse, enhances this effect even further by optimizing self-consumption and adjusting grid usage.



LIFETIME AVOIDANCE

9,074,927

Lifetime avoided emissions tCO₂e



LIFETIME AVOIDANCE

2,982,031

Lifetime avoided emissions tCO₂e



LIFETIME AVOIDANCE

12,056,958

Lifetime avoided emissions tCO₂e



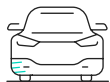
The total lifetime avoided emissions by our systems are equivalent to the annual carbon footprint of 1,607,594 people, roughly equal to the population of Munich.

INSTALLED
SYSTEMS
BEFORE 2023

IN 2023

TOTAL

GREENHOUSE GAS PROTOCOL CALCULATIONS



2,234 tCO₂e
market-based

Scope 1 (Direct emissions)

Scope 1 emissions refer to direct emissions from sources owned or controlled by 1KOMMA5°. These emissions primarily come from the company's vehicle fleet and heating systems that are under its operational control.

Currently, 39 % of the fleet consists of electric or hybrid vehicles. At the same time, 77.8 % of the emissions are still produced by diesel-powered vehicles, mainly the vans used for system installations. To further reduce these emissions, 1KOMMA5° aims to increase the share of electric and hybrid vehicles in the fleet from 39% in 2023 to 45 % by 2024.



860.1 — 611.5 tCO₂e
market-based¹ location-based²

Scope 2 (Indirect emissions that result from energy consumption)

Emissions associated with Scope 2 arise from the purchased electricity, steam, heating, and cooling used by 1KOMMA5°. Although generated off-site, these emissions are classified as the company's indirect environmental impact.

On a market-based level, 66.5 % resulted from electricity consumption while the remaining 33.5 % resulted from heat. Altogether, we used 2,081,762 kWh of energy at our locations worldwide.³



112.987.36 tCO₂e
location-based

Scope 3 (Other indirect emissions)

Scope 3 includes all other indirect emissions that occur along 1KOMMA5°'s value chain and business model. This can include various activities such as business travel, the waste generated, employee commuting or emissions that result from the production, installation and transportation of purchased goods and services. Based on the total amount of 1KOMMA5° carbon emissions, approximately 97 % is attributable to purchased goods and services, primarily from the components we install in customers projects, such as PV panels, inverters, battery storage units, heat pumps and EV chargers. Other categories included are employee commuting with ~1 %, upstream transport, distribution and business travel with ~1 %.³

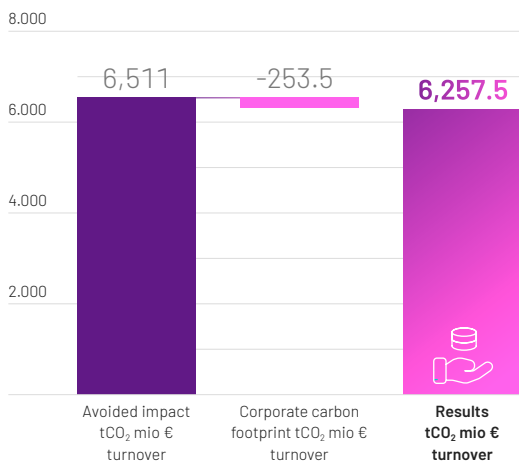
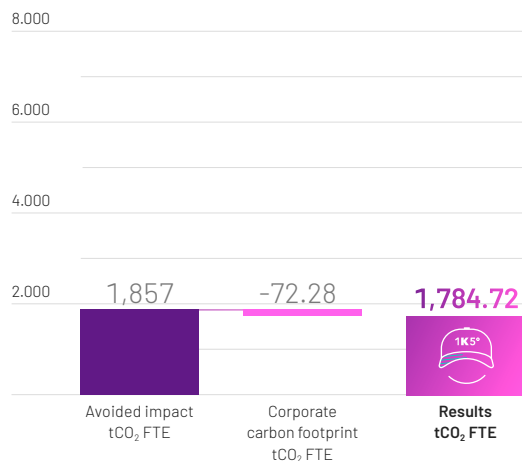
¹ Market-based: Considers specific energy contracts and the actual energy mix the company procures. Emissions can vary depending on the source of the purchased electricity. ² Location-based: Considers the average energy mix of the regional grid, regardless of the company's specific procurement decisions. ³ Based on metrical data as well as calculations based on Normative factors.

CARBON INTENSITY

OUR RESULTS

To illustrate the impact generated by 1KOMMA5°, we use a calculation that subtracts our positive impact from our negative impact. This net result is then measured in terms of carbon intensity, which is defined as the amount of CO₂e emitted per one million euros of turnover and per Full-Time Equivalent (FTE) employee. The carbon intensity is determined by dividing the company's total carbon emissions by both the turnover

and the number of FTE employees. In 2023, 1KOMMA5° employed 1,606 FTE employees and had a turnover of approximately 460 million euros. Our total corporate carbon footprint for the year was 116,082 tons of CO₂e, while the positive impact of our installed systems is projected to reduce emissions by 2,982,031 tons of CO₂e over their lifetime. By factoring in this positive impact, we arrive at a net carbon result.



Our carbon footprint has been developed in conjunction with our climate accounting partner Normative. Normative uses a science-backed emissions calculation methodology informed by the Greenhouse Gas Protocol and accepted by third-party assurance providers. The approach of Normative has been successfully used by various international companies to submit approved SBTi targets. To achieve the most accurate calculations possible, Normative's carbon accounting engine can use both transaction and activity data in its emissions calculations, selecting the best approach depending on the type of data provided by a business. Normative's methodology can be found publicly [here](#).



254

Each individual employee's positive contribution in 2023 could offset the annual carbon emissions of approximately 254 people.

IMPACT

ENVIRONMENTAL IMPACT



Total energy generation of all installed 1KOMMA5° systems.

1,025,871
mWh



This would be enough energy to heat roughly 256,492 households with heat pumps for a year.

OVERALL INSTALLED
SYSTEMS BEFORE 2024

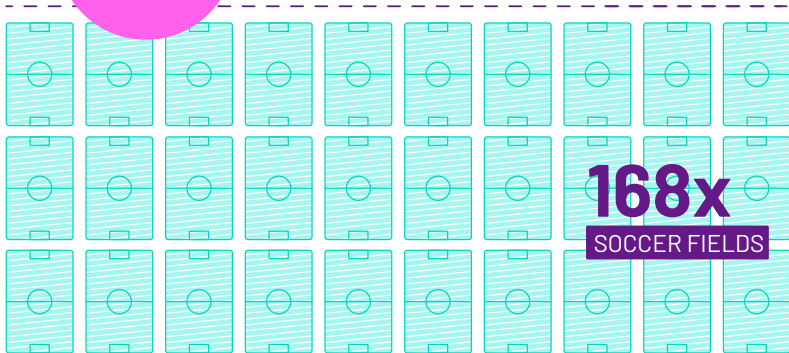
PV MODULES
INSTALLED



261,270
kWp installed

1,197,728 m²

=



1 SOCCER FIELD = 7,140 m²

In 2023, we installed 261,270 kWp of additional PV capacity worldwide, multiplied by ~ 2.35 modules/kWp this converts to 614,219 PV modules installed. If they were placed on the ground next to each other, they would cover an area equivalent to 167.75 soccer pitches.

JUST IN 2023

ENERGY PRODUCED AND USED WORLDWIDE & WATER CONSUMPTION

Energy produced in our offices and warehouses



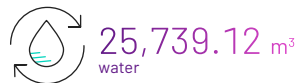
The image shows our 1KOMMA5° Breidenbach (GER) location, which features a large PV system and a rotating office that adjusts its alignment to the sun throughout the day. In the coming years, we anticipate a significant increase in renewable energy produced at our offices and warehouses worldwide, as we have many additional PV projects planned.

Energy used at our locations



With an overall energy consumption of 2,081,762 kWh, we produced 57 % of our own energy demand at our locations. Compared to 2023, we aim to boost our renewable energy production by 20 % in 2024.

Water used at our locations



**1KOM
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**1KOMMA5°
COMPOSITION OF
WORKFORCE**

3

COMPANY DEMOGRAPHICS



>30,000
Applications during 2023



2.8 %
Gender Pay Gap

1,606
Overall full-time
employees



202
Overall part-time
employees

19.7 %
Female
Employees



Female / Male employees

80.3 %
Male
Employees

25.0 %
C-Level Female
Holding

75.0 %
C-Level Male
Holding

>75
Working
students

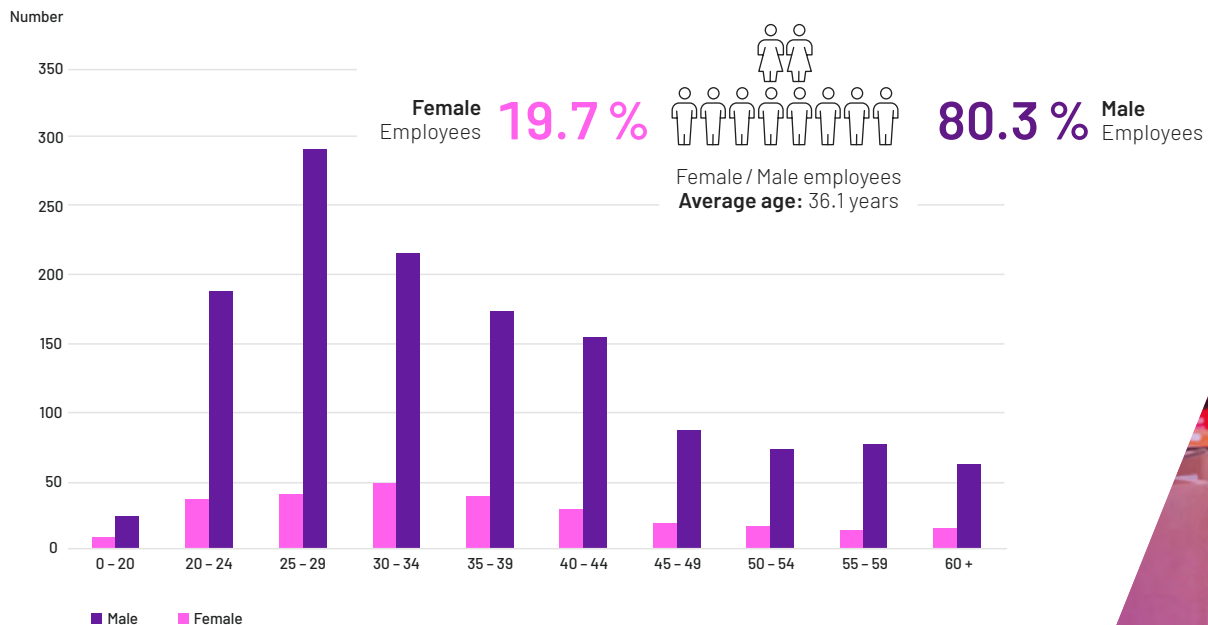


>70
Apprentices

EMPLOYEES IN GENERAL

EMPLOYEE GENDER DISTRIBUTION

DEMOGRAPHICS



**1KOM
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1KOMMA5° MANAGEMENT STRUCTURE

4

INTRODUCTION TO OUR BOARD MEMBERS



Michael Hinderer

„When I saw what Philipp Schröder was trying to do in the beginning with 1KOMMA5°, I immediately knew he was onto something big. The complete decarbonization of energy, mobility and heat poses an unprecedented challenge of coordination - the base of skilled workers is too small and too fragmented, you really need to wrap up as much capacity as possible to create enough supply - that is the immediate bottleneck.“



Ben Kortlang

„1KOMMA5° (combines an exceptional pan-European buy-and-build model, a uniquely positioned decentralized energy platform and an exceptionally talented founding team; and thus) has the potential to become the first fully integrated European one-stop-shop for carbon-neutral electricity, mobility and heat in buildings, while revolutionising the way decentralised, electrified energy markets will work.“



Christoph Ostermann

„As the co-founder and former CEO of sonnen GmbH, I had the privilege of working closely with Philipp Schröder to drive the energy transition. Philipp significantly contributed to our market leadership. Our years of collaboration have built a strong professional and personal bond. When Philipp founded 1KOMMA5°, it was a natural decision for me to join the board. The mission of 1KOMMA5° aligns perfectly with my values and goals. I am excited to contribute my experience to this visionary company and help shape a green and sustainable energy future.“

**1KOM
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**1KOMMA5°
SUPPLY
CHAIN**

5

SUPPLY CHAIN

1KOMMA5° 2023

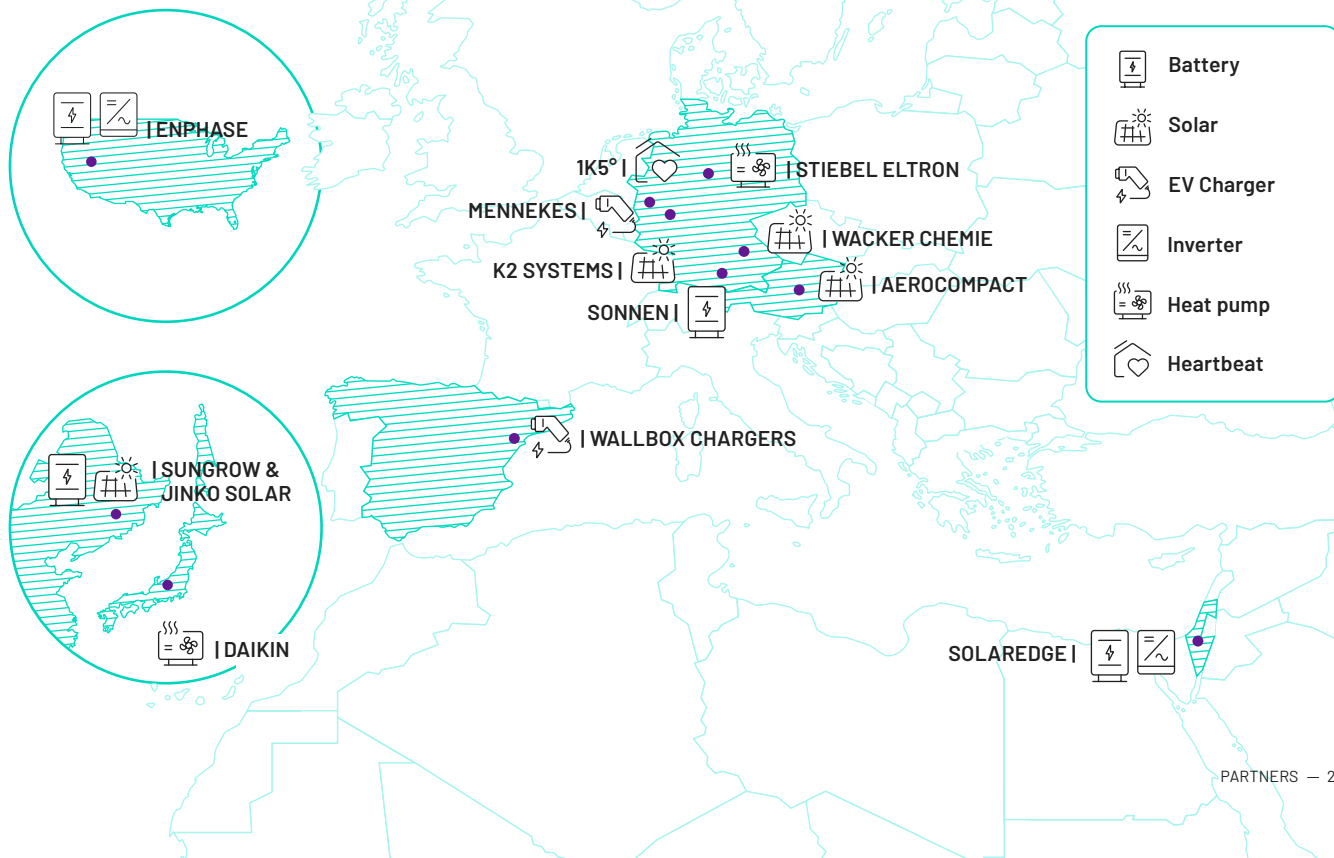
Our most trusted Partners

We value close collaboration and continuous communication to deliver the best possible product while embedding ESG principles throughout our supply chain. In line with this commitment, we introduced a Supplier Code of Conduct in 2023.

We are proud to work with companies that exemplify these principles. For instance, ENPHASE has achieved a renewable energy mix of 70 % across the company in the past year by installing its own PV systems.

Another example is AEROCOMPACT, they have installed PV systems on the roofs of their production facilities, equipped with live trackers that monitor real-time energy production.

MENNEKES, for instance, has introduced its first line of carbon-neutral products while also implementing a 100 % renewable energy mix.



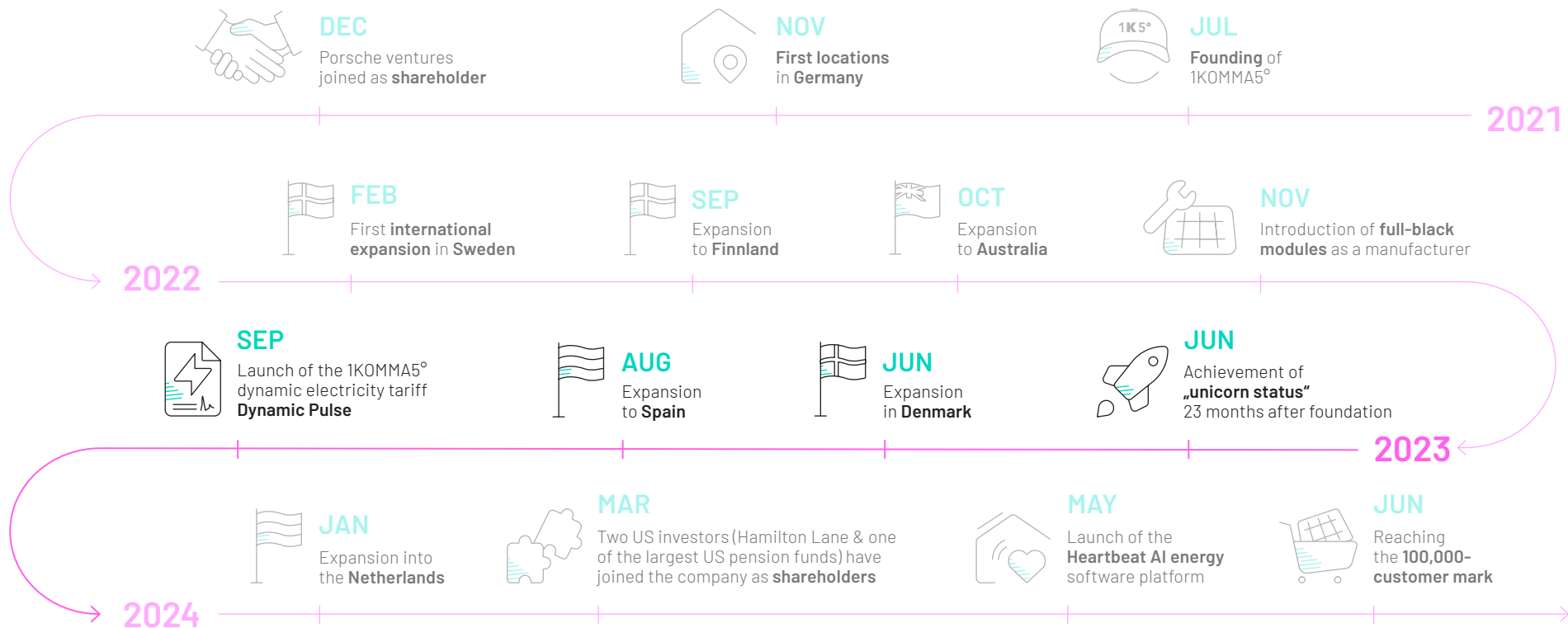
**1KOM
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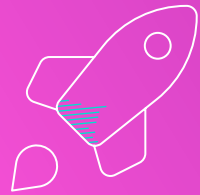


MILESTONES

6

TIMELINE





KEEP ON MOVING

**„Our ultimate goal is to connect
1.5 million buildings to our
platform by 2030, hereby**

permanently disconnecting from Big Oil dependency and becoming climate-positive. At our core, we are a CO₂ reduction company that aims to fast-track the renewable energy transformation and take it to a new level.“



1KOMMA5°

**FEEL FREE
TO CONTACT US**

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