

BERLIN
DÜSSELDORF
HAMBURG



EUREF

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EUREF-Campus Berlin



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Düsseldorf





EUREF-Campus

Berlin

“We produce results!”

“ We create synergies between business, research and teaching – that makes the EUREF-Campus special.”



REINHARD MÜLLER
Executive Board, EUREF AG

Mr Müller, one of the most pressing issues today is energy security. Could you tell us what ideas the EUREF-Campus has for addressing this and whether they align with the federal government's national energy plan?

Müller: To achieve energy security, we must first transition to renewable energy, but I see very little evidence of any strategy the German government is pursuing here. Clearly, the war in Ukraine is disrupting many things at the moment, but even before this, I saw hardly anything you would call a genuine energy transition. All they produce is a lot of paper. That motivated me to create the EUREF-Campus and implement all the relevant regulations from all those pieces of paper! And we also proved that we could do it. In fact, we not only met the government's 2050 energy targets, which they subsequently brought forward to 2045, but we did it by 2014! In terms of energy security – a term that had

little meaning before the war – our new EUREF-Campus in Düsseldorf has put us in a very comfortable position of not having to rely on fossil fuels for our energy needs. Instead, we draw our energy from a nearby quarry pond. While not always feasible everywhere, North Rhine-Westphalia, by example, is home to thousands of these kinds of gravel pits. As a result, other developers may consider similar sites for their new construction projects to take advantage of this incredible energy source from the circulation of hot and cold water. The system works almost like a perpetual motion machine and is highly reliable. For us, the proximity of the water and the excellent transport connections – we have an ICE train station and an airport right on our doorstep – were the decisive factors in choosing this property, and we are delighted we could implement our energy concept in cooperation with the local public utility authority.





What was the planning process like for the new site?

From the start, you must involve all the stakeholders – all the relevant local people and institutions from business, politics, art & culture, education and research. So we set up an innovation advisory board to engage people from these different professional groups, tell them about the project, and listen to their concerns. Because, this is not just a real estate project. We are building ideas, creating things here that have broader implications for the future. The area of university education will play a leading role here, too. Ultimately, we can only achieve an energy and mobility transition if we care for and educate the next generation. Though it began modestly in Berlin, the education sector has since grown to play a crucial role in our institution. In Düsseldorf, the growth in this sector will be even more significant. We have already introduced masters degree courses through the University of Applied Sciences Düsseldorf and the so-called UA Ruhr, an alliance between Ruhr University Bochum, TU Dortmund, and the University of Duisburg-Essen.

We were also able to get several companies to support the initiative financially. As a result, and given that all the companies on campus are required to contribute to the goals of mobility, energy, and climate protection, it is clear that we are more than just a real estate project in terms of what we can achieve.

Are there differences between Berlin and Düsseldorf in their emphasis on research and teaching on the one hand and business on the other?

Absolutely. For example, we expected mobility to be the main focus for the Düsseldorf business hub, but the campus instead has developed a strong emphasis on energy, no doubt due to the war. Because our tenants are our partners, we start by listening to their needs. As a result, demands in Düsseldorf can differ from those in Berlin. This distinction is partly due to Düsseldorf's attractiveness as a business location.

“ We can only achieve an energy and mobility transition if we care for and educate the next generation.”

Companies will frequently approach us with their ideas, hoping to become a part of the community and capitalise on potential synergies here. Wilo, one of the world's largest pump manufacturers, was a company drawn to the Düsseldorf location. And one of their initiatives gave rise to the entire field of hydrogen-based energy generation that we are currently developing.

Even so, a substantial part of the Düsseldorf campus is intended for an NRW Mobility Hub ...

Yes. In fact, it will offer a wide range of transportation options, such as air taxis which would allow you to fly for the cost of a taxi! All of this, by the way, has been possible for a long time; it's just not being done. We have formed an innovation partnership with the Düsseldorf airport company to explore these and other issues. This is an excellent opportunity for collaboration between our two companies and does not contradict the fundamental concept of the mobility transition. People will continue to fly; the only question is how and with what.

You are also establishing a EUREF-Campus in Hamburg. What are the distinguishing features of this campus that set it apart from the others?

Of course, you must always adapt to local conditions, so energy concepts will always differ from place to place. Hamburg has unique challenges and features, such as the harbour and the nearby densely populated St. Pauli neighbourhood. CO₂ and other environmental pollutants are a huge problem here, so this new campus aims to show that a pollution-free energy supply is absolutely possible. We are working on the idea of a tidal power plant, which could provide significant amounts of energy by utilising the location's low and high tides. However, using hydrogen as an energy source has even greater potential here. For example, using electric motors in ships poses a complex challenge for the shipping industry. Passenger ships operating out of Hamburg are so old that

“ Our tenants are our partners, so we start by listening to their needs.”

retrofitting them would be prohibitively expensive. But we could replace a vessel's reliance on fossil fuels with a CO₂-neutral e-fuel alternative like hydrogen. Therefore, we plan to build an e-fuel production facility as well as several waterside refuelling stations.

Hamburg will be your third EUREF-Campus. What is it about your EUREF-Campus concept that makes it so successful?

First, there is a clear emphasis on the energy and mobility transition in conjunction with research and education. Aside from the advantages

of the resulting synergies, this approach is critical in attracting young talent. By the way, the same holds for other services that we provide, like our campus dining options. Working with top chefs Thomas Kammeier and Cornelia Poletto allowed us to implement our enormously successful concept with a healthy and sustainable lunch offer for more concentration and motivation at work. Add that to the fact that we are already entirely CO₂-neutral and have several impressive, large event spaces available at our locations. Incidentally, the events that were held in Berlin last year drew approximately 60,000 people, including a steady stream of prominent political decision-makers. The ability for businesses to present themselves in this way, on this scale, is one of the reasons they choose to settle in one of our locations.

According to a report in the Tagesspiegel newspaper, you intend to leave EUREF in the near future. It said that you were retiring. Is that right?

No. I'm not retiring. I'm returning to where I came from. I'm going back to work with the architects and construction managers at EUREF-Consulting. That does not mean I am leaving EUREF. In fact, I will be joining its supervisory board. We have such a good young team that I don't have to worry about the day-to-day campus business anymore. And so, I decided to return to architecture and creative project development. People often ask me how long I intend to keep working, and I always tell them I'll continue doing what I'm doing as long as I'm healthy and find joy in it.



Reinhard Müller began developing the EUREF-Campus Berlin in 2008 and has since transformed it into a highly regarded real-world laboratory and showcase for the energy and mobility transition.

The Executive Board of EUREF AG (from left): Reinhard Müller, Sarah-Maria Ameler, Karin Teichmann and Kevin Hauert.

FROM IDEA TO EUROPEAN ENERGY FORUM

For EUREF AG board member and founder Reinhard Müller, one thing is clear: "We need to create a different kind of building, one that is energy efficient, future-focused, and sustainable – buildings that promote a sense of well-being for those who use them." That was his credo in 2007 when the real estate bubble burst, and the financial markets collapsed. It was at that time he developed his vision of a European Energy Forum, which he began to realise at the Schöneberg Gasometer, a relic of a former gasworks.

Now, 15 years later, the EUREF-Campus Berlin is nearly complete. The final construction project is the rehabilitation of the gasometer structure, in keeping with its status as a listed building. As part of the development, new office space with a transparent design is to be built inside the gasometer. Meanwhile, the campus's other newly constructed offices and renovated brick buildings are currently home to about 5,000 employees. Another 2,000 will be added due to the gasometer development when Deutsche Bahn

takes up residence inside the new office space. Today's Berlin campus is home to over 150 companies, start-ups, and research institutes working on cutting-edge technologies and innovations in energy, mobility, and climate protection.

The EUREF-Campus is a real-world laboratory for investigating and evaluating new ideas and technologies. The energy transition has already taken place here. For instance, the site's entire energy supply is CO₂-neutral, thanks to the use of renewable energy sources. The new buildings, such as the GASAG headquarters, the NBB network distribution company headquarters and the gasometer building, all meet the highest energy efficiency standard, KfW 55, a higher standard than the required minimum. The buildings use only 55% of the energy of a conventional building.

Part of the reason for this success is the close cooperation between the EUREF-Campus and Schneider Electric, a multinational corporation and world leader in energy management with



JEAN-PASCAL TRICOIRE
Chairman & Chief Executive Officer,
Schneider Electric

“I believe access to reliable and sustainable energy is a basic human right. At the same time, we all know the way we currently use energy is not sustainable. The EUREF-Campus demonstrates that a solution to the energy paradox is now possible.”



approximately 160,000 employees. The establishment of a "smart city quarter" around the gasometer, which from the outset actually met the German government's climate targets for 2045, was primarily due to their intelligent energy generation solutions and other products.

Schneider Electric, for example, has integrated efficiency solutions that seamlessly combine energy, automation, and software. These have been implemented successfully at the EUREF-Campus in Berlin and will be implemented in Düsseldorf in the future for e-mobility, load regulation, flexible energy distribution, and energy management.

However, Reinhard Müller states that a building is only sustainable if your considerations extend beyond its completion. The EUREF-Campus buildings, for example, are fitted with only recyclable or eco-friendly

floor coverings. Cleaning companies employed on the campus are also encouraged to use green, environment-friendly cleaning products. "These aspects are frequently overlooked," explains Reinhard Müller. "However, health also falls within the definition of sustainability." For example, new buildings on the Berlin campus have already been outfitted with air purification systems. In addition, a UV filter system planned for the EUREF-Campus Düsseldorf will ensure that the air there is 99.9% virus-free.

The construction on the gasometer is still underway, but once it is finished, the view of this distinctive piece of industrial architecture will once again be unobstructed. "The urban development on the EUREF-Campus opens up completely new visual relationships," says Reinhard Müller. "The gasometer will be respectfully reintroduced back into the city's urban fabric, this time as a symbol of the European Energy Forum."

Schneider
Electric

Schneider Electric is a global energy management market leader active in over 100 countries. The company is one of the main tenants at EUREF-Campus Berlin. In Düsseldorf, they are the anchor tenant.



Garamantis GmbH is a company that specialises in VR installations, interactive projections, and multi-touch tables. Their innovative interactive technology and high-quality designs bring breathtaking experiential worlds to life. Visitors to trade fairs and exhibitions and the company's showroom on the EUREF-Campus can interact in and with these exciting virtual worlds using intuitive controls. Having partnered with Ars Electronica, Garamantis has a global clientele, including organisations like the European Space Agency and Deutsche Bahn. They also used their groundbreaking presentation technology to create a 360-degree virtual experience of the EUREF-Campus Düsseldorf development.



GARAMANTIS
INTERACTIVE TECHNOLOGIES

The Fraunhofer Institute has an energy research facility on the EUREF-Campus called "ENIQ - Energy Intelligence by Fraunhofer". Its showroom features a large open-air staircase with seating and a spacious outdoor area, providing an inviting setting for discussions and ideas between science, business, politics, and the public. They also host a diverse range of events for various target groups. These events are facilitated by a rotating panel of experts, accompanied by illustrative exhibits from Fraunhofer's energy research.




Fraunhofer

Networking and cooperation – the EUREF-Campus is a place that fosters lively exchanges of ideas, from start-ups to established companies.




dena
Deutsche Energie-Agentur

The German Energy Agency (dena) and the EUREF-Campus had been in collaboration long before it had its own premises on the campus. The agency developed the "innovation campus" sustainable energy concept, and dena continues to enhance the site with new and exciting concepts for the energy transition while benefiting from its proximity to the practical use, existing infrastructure, and on-site networking. The agency has already succeeded in applying the principles of efficiency, intelligence, and sustainability to the energy transition in over 1,500 projects, making it an ideal fit for the EUREF-Campus and its core values.

The house of renewable energies

Visitors to the EUREF-Campus can see for themselves how a future energy concept works on a small scale – where heating, electricity, and mobility on the campus are intelligently networked using smart technology to ensure complete climate neutrality. The EUREF-Campus is proof that the energy transition is achievable with 100% renewable energy.

The goal of the energy transition is crystal clear: 100% of our energy must come from renewable sources such as wind, photovoltaics, bioenergy, hydropower and geothermal. "After more than two decades making progress toward this goal, the electricity sector is in a good position, with renewables accounting for almost 50% of total electricity consumption. However, we are significantly lagging behind in the transportation and heating sectors," says Dr Simone Peter, President of the German Renewable Energy Federation (BEE). "All sectors must step up their efforts, and do it now."

The BEE works to improve the conditions for a modern renewable energy supply for the benefit of the general public. And as an umbrella organisation, it represents around 40 trade and state associations at the "house of renewable energies" on the EUREF-Campus, including numerous companies and associations from all regions and sectors of the renewable energy industry. In terms of renewables

in Germany, the campus serves as a vital point of contact for all parties involved in the new energy sector, which includes those from politics, the media, and society generally.

In December 2020, the BEE and its major member associations relocated to the new EUREF-Campus Building 16, which is regarded as Berlin's first CO₂-neutral office building and completed in 2022. "Due to its use of renewable energy, the EUREF-Campus is a showcase project," says Simone Peter. "However, it also proved that combining heritage preservation, new construction, and climate protection is possible." The proximity to other organisations and energy providers like the Fraunhofer Institute and the German Energy Agency dena is also an obvious advantage of the location.

The EUREF-Campus represents the future for many industries, according to the BEE President. For instance, in addition to a climate-neutral energy

source, mobility has also been a top concern there since the outset. The campus now has more EV charging stations than any other single location in Germany. According to Simone Peter, "On the EUREF-Campus, the energy transition is already being implemented, with 100% renewable energies in every area."

For the BEE, the EUREF-Campus is an ideal setting to speak with federal politicians, the media and other associations about the energy transition and the necessary mix of energy, such as solar, wind, bioenergy, geothermal, hydropower as well as heat pumps. "Currently, our association is assisting with the enormous regulatory tasks ahead for the federal government, which will significantly accelerate the expansion of renewable energies and the adaptation of energy systems," says Simone Peter. In her view, the "EUREF-Campus is a small-scale illustration of what a future energy system should look like".

DR SIMONE PETER
President of the German
Renewable Energy
Federation (BEE)



Innovative solutions for heat and power



The GASAG headquarters' glass and steel facade features balconies, loggias and terraces, giving the building a futuristic appearance. GASAG also uses a new approach to working, fostering communication among staff across the open-plan office space.

„ The EUREF-Campus brings together companies and organisations to tackle the issues facing us in the future. We cannot address the challenges of climate change alone; we must work together. Our cutting-edge energy centre, which generates green electricity and heating, exemplifies this strategy. This is how the EUREF-Campus achieves a climate-neutral footprint.”



GEORG FRIEDRICHS
Chairman of the Management Board
of GASAG

system's energy mix will increasingly include other technologies like geothermal energy and photovoltaics.

The EUREF-Campus energy centre provides all the quarter's energy requirements and serves as a green lung for the campus, where about 7,000 people will eventually work. The centre is a CO₂-neutral solution that could be used throughout Germany. So how does it work?

The heart of the system is a cogeneration power plant that generates electricity and heat using biomethane, also known as green gas, supplied by the Berlin-based energy supplier GASAG. "The EUREF-Campus has a climate-neutral footprint as a result of these two factors", explains GASAG CEO Georg Friedrichs. To regulate energy flow during peak times, the centre also uses an intelligent energy management system to analyse energy consumption data from 1,000 metering sites around the campus.

New technologies also enable the storage of green electricity generated by renewables. The electricity is used to heat or cool water, which is then stored in two well-insulated tanks. "The EUREF-Campus is a classic example of sector coupling, i.e. the interlinking of diverse elements. We are particularly pleased with the intelligent management system, which audits energy supply and demand every fifteen minutes," says Friedrichs. He adds that the

The EUREF-Campus has been a leading centre for the energy transition for more than ten years. Even from its inception, the campus had already achieved the greenhouse gas targets for climate neutrality set by the German government for 2045. GASAG is also working hard to achieve this and gained valuable insights from the EUREF-Campus. "Due to the heat our computers and servers produce, we discovered we have a much higher cooling requirement than we thought. Being able to predict our energy consumption for heating and cooling more accurately means we can design better energy systems," says Friedrichs.

GASAG relocated its new corporate offices to the EUREF-Campus in 2021, back to where it was originally located all those years ago. "We are happy to be part of a CO₂-neutral quarter that we supply with heating and cooling ourselves. We have a great working environment here with convenient connections to public transport and a pleasant campus environment," says Friedrichs. But for the CEO, the EUREF-Campus represents something more. It symbolises what is possible when people work together to achieve the energy transition necessary for the future. "If we continue to do this, we will succeed in stopping the climate change."

First-class energy efficiency

The GASAG headquarters, located in Building 23–24, is among the most modern of its kind and meets the highest energy standard, KfW 55. The building was completed in 2020 and features multifunctional office space and a two-storey foyer. It also features spacious loggias that serve as additional communication zones. The windows have high-efficiency triple glazing and automated sun protection. The restaurant “the CORD” is located on the ground floor. The innovative cuisine available at the Schöneberg restaurant combines meticulous attention to detail with regional produce to create moments of pure, healthy pleasure – with vegan and vegetarian dishes, as well as meat and fish.



The highest energy-efficiency standard, flexible use of space, use of renewable energy, comprehensive networking, and intelligent operation – these are the fundamentals for sustainable buildings.



Building 1-2 on the EUREF-Campus near the Schöneberg train station marks the starting point for this unique location devoted to the future. The 35-meter-high building has been the headquarters for NBB Netzgesellschaft Berlin-Brandenburg, a part of the GASAG Group, since 2021. The company occupies around 9,000 square metres of space in the building. In April 2022, Gorilla Bakery opened its second location on the ground floor. The building's technical systems are essential to the campus-wide micro smart grid.

First impressions

From
gas tank
to
think tank



A MONUMENT TO THE MOBILITY OF THE FUTURE

Like a massive steel sculpture, the historic 78-meter-tall gasometer in Schöneberg is a visible symbol of the EUREF-Campus as a location for innovation. In 2021, the delicate steel structure underwent a restoration process in accordance with its status as a listed building to return it to its original condition. The historic structure will visually frame a new, transparent, cylinder-shaped office space that will be constructed inside. The former gasometer will then take on a new function, this time with an ultra-modern, intelligent usage.

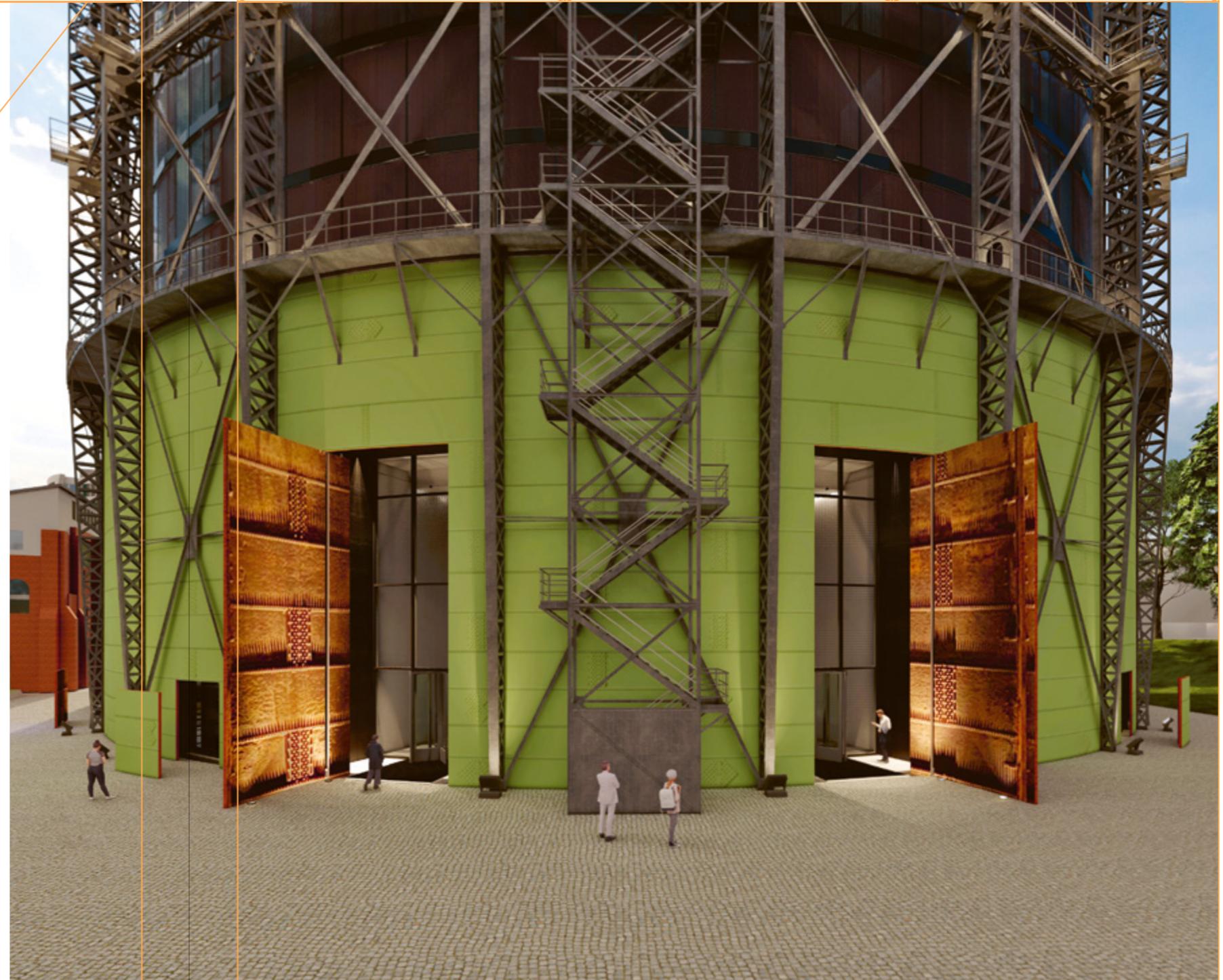
Once the redevelopment is completed, Deutsche Bahn will move into its new space there and launch, among other things, their "Digital Rail" programme, developing the mobility for tomorrow. Synergies with other businesses and projects on the EUREF-Campus will

also help to accelerate the mobility transition for climate protection.

The office building will be the very last construction project on the Euref-Campus Berlin. In deference to the historic steel landmark, the new glass building will have a one-metre breathing space around it. This design feature provides the building transparency and evokes the image of the gas tank that once floated up and down inside the steel guide frame. Every office will also have a view of the gasometer's cylindrical latticework shell. The office building is being built directly above a new event area, giving it a starting height of 16 metres. It will create approx. 28,000 square metres of space over 12 floors, is CO₂-neutral, and meets the most stringent energy and technical standards. The completion date is 2024.

Digitalisation inside the gasometer – a superb illustration of how to use intelligent technology to repurpose an architectural landmark.

The entrances are modern and barrier-free. The design incorporates former elements of the industrial landmark, such as the gas tank.





EUREF-CAMPUS BERLIN

The gasometer brings together innovation and tradition. The spaces in the new building are flexible and sustainable. The look of the building's steel structure is reminiscent of the former gasworks.

A COMMUNICATION THINK TANK AND DYNAMIC FUTURE-FOCUSED LOCATION

Deutsche Bahn will move to the new building in the gasometer in 2024 with 2,000 people employed there. They will be working on ground-breaking initiatives like "Digital Rail" and advancements in AI, blockchain, and data lakes technology for the rail industry. The quality and likelihood of innovations are greatly improved when professionals from the infrastructure, digitalisation, and passenger transportation sectors can collaborate under one roof.

Deutsche Bahn's project Digital Rail will result in more trains, more passengers, and shorter travel times thanks to the ongoing digitalisation of trains and transport infrastructure. This will allow for more real-time, intelligent and automated network management so that more trains can be scheduled with more frequency.

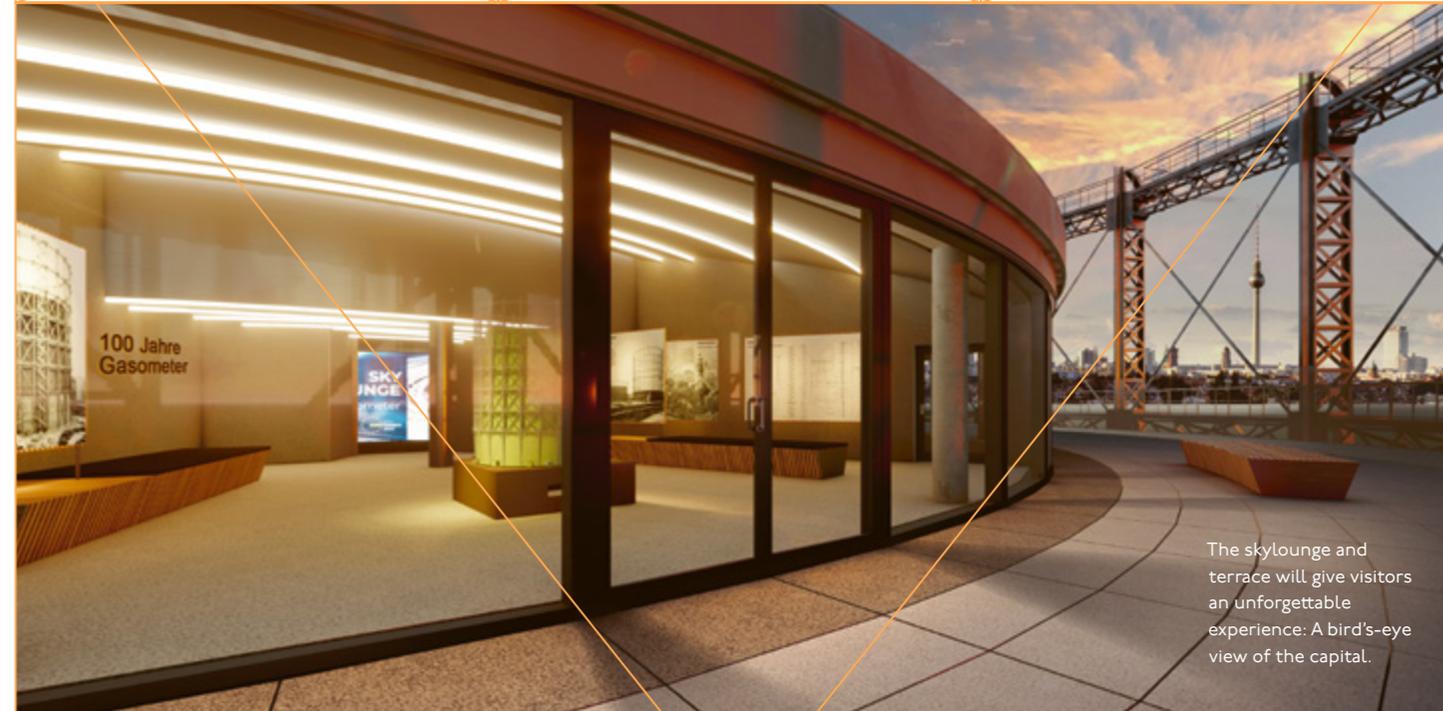
DB Engineering & Consulting has been based on the EUREF-Campus for many years

sharing its knowledge on infrastructure and mobility projects with clients all over the world. Deutsche Bahn is an excellent illustration of the EUREF-Campus as a communication think tank and a dynamic future-focused location.

The heart of the event area – the great hall. Thanks to advanced technology, it can be quickly transformed from an event venue during the day to a banquet in the evening.



FROM GAS TANK TO THINK TANK



The skylounge and terrace will give visitors an unforgettable experience: A bird's-eye view of the capital.

FORUM FOR IDEAS

An ultra-modern event space capable of holding any banquet, international conference, or corporate reception is under construction in the gasometer. The large windows look out onto the inside of the listed 16-metre-high steel shell that was part of the former gas holder. On either side of the entry are two exposed elements from the steel shell, which lead you into a twelve-metre-high reception area. Beyond the reception are several multipurpose conference rooms that offer automated reorganisation into larger or smaller spaces in a few minutes.

The venue's focal point is the great hall, which contains a gallery, an impressive stage, and hydraulically retractable seating. "The hall is designed like an amphitheatre. Each seat is perfectly aligned with the stage," says EUREF chief architect Johannes Tücks. Even the ultra-modern audio, video and lighting technology is at a level not seen before in Berlin. The hall can accommodate up to 800 people for events.

CITY PANORAMA FOR VISIONARIES

Visitors will find even the lift ride to the skylounge an event in itself. Large screens with 3D simulations that will immerse visitors in a virtual environment will be installed inside the lift. Once at the top, they can enjoy a beautiful panoramic view of Berlin from the 66-meter vantage point. There will also be an exhibition here on the history of the EUREF-Campus. The skylounge, one of Berlin's most unique venues, will be perfect for special occasions or gatherings. And the 360-degree view is stunning.



Mobility
for the

future

FASTER CHARGING ACCELERATES THE REVOLUTION OF TRANSPORTATION

For a long time, the main issue impeding the expansion of e-mobility was the charging speed. Those times are over. Tesla's new V3 Superchargers on the EUREF-Campus can add 120 kilometres of range in just five minutes.



Innovative and sustainable mobility is central to the work of the EUREF-Campus, and not only in research or future-focused start-up concepts. It also shapes the everyday lives of people on campus.

Ranging from large corporations like Deutsche Bahn, BVG, and Audi to start-ups and researchers: Many people on the EUREF-Campus are working on the transportation revolution in a variety of ways. The Technical University's Mobility2Grid research campus, for example, is dedicated to the development of new technology options. Inno2grid, a joint venture between Deutsche Bahn and Schneider Electric, is developing holistic mobility concepts. These are all intended to make the transition from private cars to environmentally friendly rail more convenient by providing climate-friendly door-to-door alternatives based on digital technology, making them easy to access and convenient to use. But there is also a focus on individual passenger transportation.

In this sector, e-mobility is booming and will completely replace fossil fuels in the foreseeable future. This trend is currently

only held back by the time it takes to charge an electric vehicle. However, Tesla has now revolutionised charging technology with its V3 Superchargers. These new fast charging stations have a maximum charging rate of 250 kW for the Tesla Model 3 with the long-range battery. This means a recharge can add up to 120 km of range at peak capacity in just five minutes. Supercharger stations are available in over 20 countries, mostly along major long-distance routes.

In the autumn of 2020, Tesla Germany installed the country's first twelve inner-city V3 Superchargers at the EUREF-Campus in Berlin. The official launch was attended by Peter Altmaier, the former Federal Minister for Economic Affairs and Energy, Simon Zwahlen, from Tesla Market Lead Germany, Jeroen van Tilburg, the European Manager of Charging Infrastructure at Tesla, as well as EUREF AG Board Member Karin Teichmann.

EUREF-CAMPUS DÜSSELDORF: FOCUS ON MOBILITY

The focus on the mobility transition is not limited to Berlin. The new EUREF-Campus in Düsseldorf will also serve as a mobility hub for future mobility concepts.

A success story expands: The EUREF-Campus Düsseldorf is a real-world laboratory for the energy transition and a centre for the development of future mobility in North Rhine-Westphalia. Around 4,000 employees from established companies, start-ups, and science and research institutes will work in this inspiring environment in constant exchange on the issues of the future – energy, mobility and sustainability.

A particular highlight is the NRW Mobility Hub, designed as a research campus for intelligent mobility concepts and a showcase for e-mobility with showrooms, trade fairs and exhibitions. This hub is being developed in conjunction with the City of Düsseldorf, Flughafen Düsseldorf GmbH (airport) and partners such as Deutsche Bahn (railway). The research will concentrate

on new drive systems, such as hydrogen and inductive charging options.

In addition, the hub will serve as a transit zone for commuters changing from around 400 trains and 200 buses daily. There will also be e-bike, cargo bike and e-scooter sharing platforms, as well as rental cars available.

As on the Berlin campus, the charging infrastructure includes a mix of superchargers and slow chargers. These charging stations can be operated bidirectionally, whereby the connected cars contribute to the stabilisation of the entire campus power grid. And everything on campus will be connected via the EUREF city app.



Creating the infrastructure for tomorrow's mobility today: Plans for a landing pad for air taxis at the EUREF-Campus Düsseldorf mobility hub.

A kitchen scene featuring a white tray of microgreens in the foreground, several wooden planters in the middle ground, and a vase of white flowers in the background. The text is overlaid on the left side of the image.

Campus
cuisine:
healthy
tasty
sustainable

AN INTERVIEW WITH

THOMAS KAMMEIER

CORNELIA POLETTA



The core features of the dining concept in Berlin are a welcoming atmosphere, a variety of healthy options, and sustainability. An example here is the casual fine dining restaurant "the CORD". And the EUREF-Campus cuisine in Düsseldorf will be no less impressive.



CORNELIA POLETTA

The new gastronomic director at the EUREF-Campus in Düsseldorf began her culinary career as an apprentice to master chef Heinz Winkler and worked her way up to become a sous chef at the Michelin-starred restaurant Anna e Sebastiano. In addition to her new position, she also runs a cooking school in Hamburg, where she owns a restaurant named after her and the "Paolas" bar named after her daughter. She also hosts the cabaret restaurant show "Palazzo".

Ms Poletto, as a top chef with her own restaurant in Hamburg, what led you to become the gastronomic director of the new EUREF-Campus in Düsseldorf?

Poletto: Two people were instrumental. The first was Thomas Kammeier, who has been a friend of mine for many years, and the second was Reinhard Müller, the head of EUREF AG, who spoke to me about the Düsseldorf development. I then went to Berlin, met my friend Thomas again and was given a tour of the campus. Then he explained to me the plans for Düsseldorf. I was immediately impressed.

What does your commitment to Düsseldorf mean for your Hamburg restaurant?

Poletto: My culinary heart still beats in Hamburg, but I have a fantastic team of people working with me to run the business, as well as my bar, "Paolas", and the cooking school. This means that I can give Düsseldorf my full attention.

Will you also be cooking in the kitchen?

Poletto: Without a doubt! I will be in the kitchen occasionally, but my first

responsibility is the dining concept. I also want to bring in a long-time employee for the head chef position. So, there will be times when I will definitely have to work closely with them in the kitchen, at least in the beginning.

Sustainability is at the heart of the EUREF concept. How will this affect the kind of food that you provide?

Poletto: Well, we have a lovely lake on our doorstep, so if I can persuade our kitchen staff to all get fishing licences, we could have fresh fish on the menu (laughs). But in all seriousness, we will naturally focus on nutritious local produce and put together a wide variety of vegan and vegetarian dishes. You can see there's a big demand for these kinds of dishes on the Berlin campus. I like to cook in a light, Mediterranean way, but that's not necessarily at odds with regional sustainability. I believe we will find a good balance here concerning with this. As Mr Müller says: You are what you eat – and that's the most important thing to me.

Mr Kammeier, how do you handle sustainability issues?

Kammeier: Well, I've been the gastronomic director of the EUREF-Campus in Berlin for eight years now, so my team and I have had plenty of opportunities to practise. (laughs) As the campus grew and evolved over time, so did we. For instance, when I started here, I wasn't that interested in vegetarian and vegan cuisine, but because there was a real need for it, we worked incredibly hard to perfect it. We also work with organic suppliers and see our dining establishments as culinary ambassadors for the energy shift. We also follow environmentally friendly work practises, such as using energy-saving kitchen appliances. Actually, Conny and I have been working on sustainability for years because we both

“ I tend to put more faith in high-quality produce than in a label claiming something is sustainable.”

THOMAS KAMMEIER

have experience in high-end restaurants where products are constantly held to exacting standards of quality. I tend to put more faith in high-quality produce than in a label claiming something is sustainable.

Poletto: Regarding sustainability, I should also point out that for chefs like us, hardly anything in the kitchen is put to waste. We always use our offcuts of fish, meat, or vegetables to make stocks and sauces and so on. That's standard practice.



THOMAS KAMMEIER

The gastronomic director of the EUREF-Campus in Berlin started his career at Landhaus Scherrer, Recklinghausen. His other professional highlights include his time at the Rotisserie Dubs in Worms, the Hummerstübchen in Düsseldorf, and as sous chef, then head chef, at the Michelin-starred restaurant HUGOS in Berlin's Hotel InterContinental.

“ I particularly love the light Mediterranean cuisine because you can eat it every day.”

CORNELIA POLETTO



Speaking of fine dining, Mr Kammeier, you received a Michelin star while you were the head chef at HUGOS. However, on the EUREF-Campus, you have to cater to every budget. Was that a big adjustment for you?

Kammeier: As I said earlier, I have grown into my role here, but I also brought a lot of experience with me. There are undoubtedly many colleagues in the fine dining sector who are first-class chefs who can easily cook for 30 to 40 people but are out of their depth cooking for 1,000. It's different for me. In the more than 20 years I worked at the InterContinental, I learned how to cater for huge events like the Federal Press Ball, for example. In addition to the purely star-rated restaurant side of the business, HUGOS has a catering side that can cater for up to 200 people at venues other than the restaurant. Here on the EUREF-Campus we have "the CORD" restaurant, a casual fine dining establishment, as well as various other dining options that cater to a wide range of tastes and budgets.

Will you be coordinating with Ms Poletto to establish a kind of EUREF standard in terms of cuisine? Or will you work entirely independently?

Kammeier: We will, of course, be in regular contact with each other. After

all, the Düsseldorf Campus is part of EUREF AG and EUREF Event. So we will plan and subsequently run the dining business very closely and in partnership. This also applies to the employees. One member of my team has already said that they would like to transfer to Düsseldorf.

Poletto: For me, it's good to know that I can benefit from Thomas' eight years of experience in Berlin. Whatever the employees and guests of the Campus in Düsseldorf might like will not be too dissimilar from what people want in Berlin. So we will also have a casual fine dining restaurant on campus too, as well as "La Cantinetta", which will offer a wide range of food options for guests and staff to choose from. I'll also be giving cooking lessons on campus, which is another unique and exciting aspect of my work here in Düsseldorf.

Kammeier: And we're planning a few more surprises for Düsseldorf, but we can't talk about that now – otherwise, they won't be surprises. (laughs)



In Düsseldorf just as in Berlin, one of the daily responsibilities of the kitchen staff is providing meals for everyone working on the campus. Cornelia Poletto's working title for this staff dining area is "La Cantinetta".





The historic water tower – a enchanting overnight stay.

THE PLACE TO STAY

STAY OVERNIGHT IN AN INDUSTRIAL LANDMARK AND EXPERIENCE CAMPUS LIFE

One of EUREF's most distinctive campus buildings is the historic water tower, built by Alfred Messel in 1924. It's where you will find the Café im Wasserturm and the Hotel Wasserturm, as well as three modern and lovingly furnished flats available for overnight stays for guests of the campus tenants.

Following an extensive renovation compliant with its listed status, the nearly 100-year-old building has been returned to its former splendour. Located near the base of the old gasometer, it now provides guests with high comfort, modern rooms and amenities. And after a restful night's sleep, Café Wasserturm or the GORILLA Bakery are available for a hearty breakfast.

THE WORLD OF BAKING

With the GORILLA Bakery opening in April 2022, the variety of food offered on the EUREF-Campus increased significantly. Their range of traditional baked goods including freshly baked bread are all made in-house. Classic Roman pizzas are also on the menu. Those who prefer something sweet can indulge in French Viennoiserie and patisserie. This assortment includes croissants, pains au chocolat, and tartes. There is also an expanded brunch and lunch menu as well as homemade ice cream!

For Frithjof Wodarg and Matteo Angioi Petia, the bakery's two founders and owners, baking is a labour of love. "For us, the concept of the business and our

aspiration have always been about the importance of artistry and high quality." Their sustainable bakery uses organic flour from two family-run mills in the Piedmont and Ore Mountains, and none of their goods contain additives.

You can find the bakery on the ground floor of Building 2. However, the campus tenants are not the only ones who enjoy the delicious pastries and breads. People from the surrounding area are also partial to the bakery's produce and enjoy watching the bakers' skills in action before relaxing on the spacious terrace and catching some sun when the weather is nice.

“ We source everything from organic growers. And we try to use regional and seasonal produce whenever possible.”

FRITHJOF WODARG
Founder and manager of the GORILLA Bakery



Research & teaching



New solutions for climate protection

PROF. DR OTTMAR EDENHOFER,
Director of the MCC

The MCC is a scientific think tank that conducts global research and develops options for politics and the economy to halt global warming, foster prosperity, and improve human well-being.



“The EUREF-Campus is unique because many companies and start-ups are working together there on climate protection and the energy transition. It’s an ideal setting for the MCC to think about global issues and develop strategies, such as the path to greenhouse gas neutrality, CO₂ pricing, the transformation of the electricity market, hydrogen as a future energy carrier, climate and security, and international climate cooperation. The campus has a high profile, attracting politicians and international visitors. It’s a place where people can come together.”

PROF. DR OTTMAR EDENHOFER
Director of the Mercator Research Institute on Global Commons and Climate Change (MCC)

One of the most serious issues confronting humanity is the climate crisis. But how can we protect the atmosphere, as well as other global commons like land and forests, from overuse? Is it possible to do so while also developing social commons like education, health, and transportation? On the EUREF-Campus, the MCC, the Mercator Research Institute on Global Commons and Climate Change, is exploring these issues. “As a scientific think tank, the EUREF-Campus is the right place for us to think about approaches and concepts for protecting the planetary boundaries,” says Prof. Dr Ottmar Edenhofer, Director of the MCC. “This includes, for example, CO₂ pricing, the transformation of the electricity market, hydrogen as a future energy carrier, climate and security, and international climate cooperation.”

His office is in the former water tower, one of the campus’s heritage-protected buildings, and a large set of bookcases filled with books encircles his desk. The MCC frequently hosts seminars on its premises and regularly extends invitations to political decision-makers for these events. Ottmar Edenhofer recalls that many proposals for the energy transition have been developed in this building. He says this is also where federal ministers and business leaders have come together to draft energy transition strategies, advance Germany’s push for greenhouse gas neutrality by 2045, as well as promote these to the business community.

But what makes this place so exceptional? “The EUREF-Campus attracts a lot of

attention because many companies and start-ups are working here on the entire spectrum of the energy transition. This is where future technologies like the Tesla Supercharger, for example, are available for you to experience. Even the trials conducted here with self-driving buses offer a peek of what an energy transition concept might look like in the future,” says the MCC director.

He adds that key partners like the German Energy Agency and research organisations like Fraunhofer-Gesellschaft are also on site. Whether they are from the sciences, business or politics – proximity makes all the difference in how people meet and work together. “And how we apply our research results at the national and international level, which is a problem of upscaling, is something that we can explore here by using simulations and developing appropriate strategies.”

The EUREF-Campus has been a crossroad for cutting-edge research and technology for over ten years. And as a result, the campus has a well-deserved reputation as a testing ground and showcase for the energy transition, and not just within the political sphere. The innovations developed here also attract international interest. Anyone who wants to witness what the energy transition looks like comes here. “The EUREF-Campus is similar to a node in a large network. And this is important because being part of something bigger encourages the development of fresh concepts for reducing greenhouse gases and helps promote climate protection more easily,” says Ottmar Edenhofer.

TEACHING AND STUDYING IN A REAL-WORLD LABORATORY

How is green hydrogen produced? What kinds of renewable energy storage options are there? Are tomorrow's technologies economically viable? These are some of the questions being addressed by TU Berlin students at the EUREF-Campus in the capital.

The Technical University has been active on the EUREF-Campus Berlin for ten years. As a European teaching, research and consulting institution, it offers four interdisciplinary masters programmes in English in the areas of the environment, climate, energy and mobility. These programmes include the two-semester Master of Laws (LL.M.) programme "European and International Energy Law" as well as the three-semester MBA programmes "Management Methods for Energy Efficiency," "Energy Management," and "Sustainable Mobility Management." On top of this, the

campus offers conferences and further education for non-university target groups.

PRACTICE-ORIENTED STUDIES LIE AT THE HEART OF THE CONCEPT

When it comes to learning, in particular, students benefit enormously from the expertise and experience available on the EUREF-Campus. Here, students also have an opportunity early in their academic careers to establish connections with businesses, start-ups, and research institutions on campus, discuss curricula, and collaborate to create cutting-edge learning strategies. The proximity and potential for close cooperation also afford students broad access to the business world and ideal conditions for their successful recruitment.



“For the TU Berlin, sustainability and climate protection are top priorities. Innovative research, teaching, and entrepreneurship in these areas are all conducted on the EUREF-Campus. Together! The campus has evolved in recent years into a true educational engine for the energy and mobility transition. The practical focus, the close contact with business and politics, and of course, the allure of the TU-Campus EUREF are all advantages for our students.”

GERALDINE RAUCH
President of the Technical
University Berlin



These future-focused study programmes, however, are not only offered in Berlin. Starting in 2024, with the opening of the new EUREF-Campus in North Rhine-Westphalia, studying and teaching in a real-world laboratory will also be possible in Düsseldorf with the opening of the 80,000-square-metre technology and research campus that will focus on hydrogen technology as well as e-mobility. The main emphasis here is on innovative battery development and production as well as the appropriate charging infrastructure. Research into raw materials and their use in the real world based on the principles of the "circular economy" will be another area of interest. Likewise, the Düsseldorf campus will offer education and training: A wide range of study and further training programs are being

developed in collaboration with the EUREF-Talent Campus, the TU Dortmund, the partner universities of the University Alliance Ruhr, the University of Applied Sciences Düsseldorf, and local businesses. These numerous interdisciplinary fields provide an excellent foundation for creating new degree programs with a strong application-oriented focus.

At both locations, the key concern is ensuring that technological innovations will be socially accepted and are commercially viable.

Arts Council



The red and white barriers were stacked haphazardly and topped with a shopping trolley. Olaf Metzel's artwork, created in 1987 for Berlin's 750th anniversary, is reminiscent of a violent protest in 1981.

Olaf Metzel
13.4.1981
1987



Ewerdt Hilgemann has been working with "implosions" of airtight welded hollow bodies made of stainless steel since the mid-1980s. This targeted "destruction" resulted in the "Imploded Columns" on display at the EUREF-Campus.

Ewerdt Hilgemann
IMPLODED COLUMNS
1995



The stylised crow, cast in bronze, is the result of an art series dedicated to the bird by artist Arie van Selm. It has been a fixture on the EUREF-Campus since 2018.

Arie van Selm
BRONZE CROW

A dynamically shaped steel sculpture by South Tyrolean sculptor Eduard Habicher adorns the exterior of the Reglerhaus on the EUREF-Campus. The title of the work translates as "House of the Poet".

Eduard Habicher
CASA DEL POETA
2010





Winfried Flach's two-metre sculpture, set in a small birch grove, depicts a stylised silhouette of a woman's body. The sculpture is made of red varnished corten steel.

Winfried Flach
DONA

In her art series "Exploding Couture," E.V. Day creates garments that symbolically explode. One of the exhibits on numerous steel wires is on display in the Café am Wasserturm.



E. V. Day
BLACK BOMBSHELL
1999



location

live



Among the prominent guests on stage at the EUREF-Campus is Klaus Wowereit, the former Governing Mayor of Berlin.

From the 2017 G20 Africa Partnership conference to the G7 Climate, Energy and Environment Ministers' Conference in May 2022, the EUREF-Campus Berlin is internationally renowned for hosting high-level political events.



In May 2021, EUREF-Event GmbH, which includes all the event locations on the EUREF-Campus Berlin, became a certified Sustainable Meetings Berlin Partner and achieved the rating "High Performer".



If you need to cool off, the EUREF pool is the place to be. It has been a popular venue for team events, receptions, and exclusive outdoor summer parties since it opened in 2021.



INNOVATIVE AND INSPIRING: THE EUREF-CAMPUS AS AN EVENT LOCATION

Around 600 events of every kind and size are held annually in the EUREF-Campus Berlin's ten indoor and outdoor event spaces, ranging from exhibitions and conferences to gala dinners. The synthesis of industrial architecture, restored in keeping with the site's heritage status, and modern, inventive building concepts, has produced a unique backdrop for a wide variety of events.

The "innovation campus" has hosted several movie premieres, political conventions, and UN conferences. The historic water tower, constructed about a century ago, provides space to host various events, including workshops, seminars, and elegant evening events in its well-known Café im Wasserturm. A large terrace with views of the iconic gasometer is also a pleasant place to unwind. The gasometer is currently undergoing renovation and expansion, including new offices and event space.

But wherever you are or whatever you're doing, EUREF's gastronomic director Thomas Kammeier has a variety of dishes waiting for you, whether it's an elegant dinner in the historic Reglerhaus, a casual barbecue in the Schmiede – the former forge, or a summer party in a lounge setting by the EUREF pool.

With event spaces that can easily host receptions, congresses, and trade exhibitions for up to 2,500 attendees – all in the sustainable environment of the EUREF-Campus Berlin – the experienced event management team can skilfully plan and stage a wide range of events for you on the campus. Even though it frequently hosts high-level scientific and political discussions, the campus is best exemplified by a vibrant community spirit fostered by activities like public viewings and community get-togethers, such as the recent EUREF Xmas Market Event.

Events on the EUREF-Campus, like the Intercharge Network Conference, attract leading international experts to discuss the issues affecting the future of energy, sustainability, and mobility.

We are currently working on another location in Düsseldorf dedicated to the future that will include a range of event and office spaces as well as showrooms – EUREF-Campus Düsseldorf. And the so-called “Günther Jauch Dome,” a translucent dome, a true icon from Berlin, and a familiar sight on German television, will be relocated from the capital to its new home in the enormous indoor garden on the Düsseldorf campus.

Günther Jauch’s Sunday talk show was broadcasted from the Schöneberg Gasometer under the translucent dome from 2011 to 2015.

The dome was a focal point of the Berlin “innovation campus” until January 2021. We will now use it in Düsseldorf for corporate events, presentations, and dinner events for up to 600 people. This, too, will make the location an important meeting



Thomas Kammeier is the gastronomic director of the EUREF-Campus Berlin. Whether it's dinner, a standing buffet or something special from the barbecue, he makes it all possible.



place for representatives from politics, business, science and the general public, providing an ideal setting for talks, information exchanges, events and trade fairs in an innovative and sustainable environment. In Düsseldorf, gastronomic director Cornelia Poletto will provide the dining experience and atmosphere. This will further enhance the EUREF-Campus future-focused concept at a second location, creating another platform for innovative events and ideas.

The EUREF-Campus Düsseldorf will offer a variety of culinary experiences, first-rate event and presentation spaces like the “Günther Jauch Dome”, and an inspiring environment for innovative concepts.



Facts & Figures

about EUREF-Campus Berlin



The EUREF-Campus covers 5.5 hectares – a real-world energy transition laboratory the size of



8 football fields

150 companies and institutions



are working on the EUREF-Campus on energy, mobility and climate protection.



266,900 guests

visited the EUREF-Campus between 2016 and 2022.

10



event spaces

on the EUREF-Campus of varying size are available for congresses, seminars, lectures, events and private parties.

Around 600 events



are held on the EUREF-Campus every year.

Over 2,000 megawatt hours of power per year



are generated by the biomethane cogeneration plant, the heart of the energy centre. This is equal to the annual power consumption of approx. 1,300 households.

There are

190

EV charging stations

on the EUREF-Campus,



including 12 Tesla Superchargers.



Around 5,000

people

work on the EUREF-Campus. By 2024 there will be about 7,000.



6 restaurants and

1 bakery

serve a variety of healthy foods on the EUREF-Campus, mainly using regional products.



Up to 99.9%

of the virus load in the air we breathe can be eliminated by the UVC ventilation system in the gasometer's new office building.



13,000 refrigerators.

2 compressors for the office and server room air conditioning integrated into the energy centre have a cooling capacity equal to



3

scientific institutes

are based on campus.

4

masters degree programmes

are offered by the TU-Campus EUREF to approx. 450 students.



2.5 km of pipes

were laid on the EUREF-Campus to provide the buildings with district heating.

100% of the EUREF-Campus heating

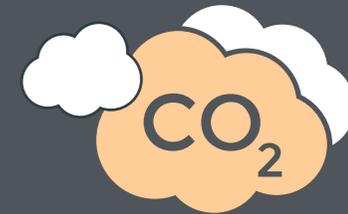
is generated by its own energy centre.



1.080

bags of waste

were saved over the last 3 years due to Vytal reusable packaging. Since May 2020, restaurants on the EUREF-Campus have been using sustainable containers. This shift has saved approx. 51,421 single-use containers – and the number is growing!



In 2014,

the EUREF-Campus achieves the CO₂ climate targets set for 2045!



EUREF-Campus

Düsseldorf

A SUCCESS STORY EXPANDS

Sustainability and innovation are the cornerstones of the new EUREF-Campus Düsseldorf. Since August 2021, the Düsseldorf site is being slowly transformed into an international showcase for the energy and mobility transition. With Berlin's EUREF-Campus proving to be such a successful concept, it is now being further developed in North Rhine-Westphalia. The Düsseldorf campus will be a centre for developing, exploring, and presenting innovations in energy, climate protection technology, environmental protection, and mobility. When the new campus opens in 2024, these innovations can be tested on-site to determine their viability.

Start-ups, corporations, associations, and research institutions will soon be working hand in hand on the more than 80,000 square metre site. The campus

will enable business and science to exchange intensively on future global challenges. Among the notable tenants are Schneider Electric GmbH, SPIE Deutschland & Zentraleuropa, the state-owned NRW.Energy4Climate, Stadtwerke Düsseldorf, Klüh Service Management, Wilo, Keba Energy Automation, and the State Association of Renewable Energies.

Another goal of this project is to create a "smart city" with a highly specialised mobility hub. The mobility hub is intended to serve as a testing and development platform for new forms of mobility. It will also be a transit point for commuters and plane passengers, with e-mobility sharing platforms available.

The EUREF-Campus Düsseldorf will meet the German government's CO₂ climate targets for 2045 right from

the start, thanks to a high-tech energy centre and the use of renewable energies.

“The EUREF-Campus breathes the pioneering spirit that we need on the way to becoming a climate-neutral industrial country. Future projects like this new campus demonstrate that prosperity, good jobs, and competitiveness can be achieved in North Rhine-Westphalia while also protecting the climate. The EUREF-Campus Düsseldorf brings together several critical issues for the state government, from climate protection and the transition to renewable energy to e-mobility and sustainability.”

HENDRIK WÜST
Prime Minister of
North Rhine-Westphalia

80,000
SQM OF RENTAL SPACE

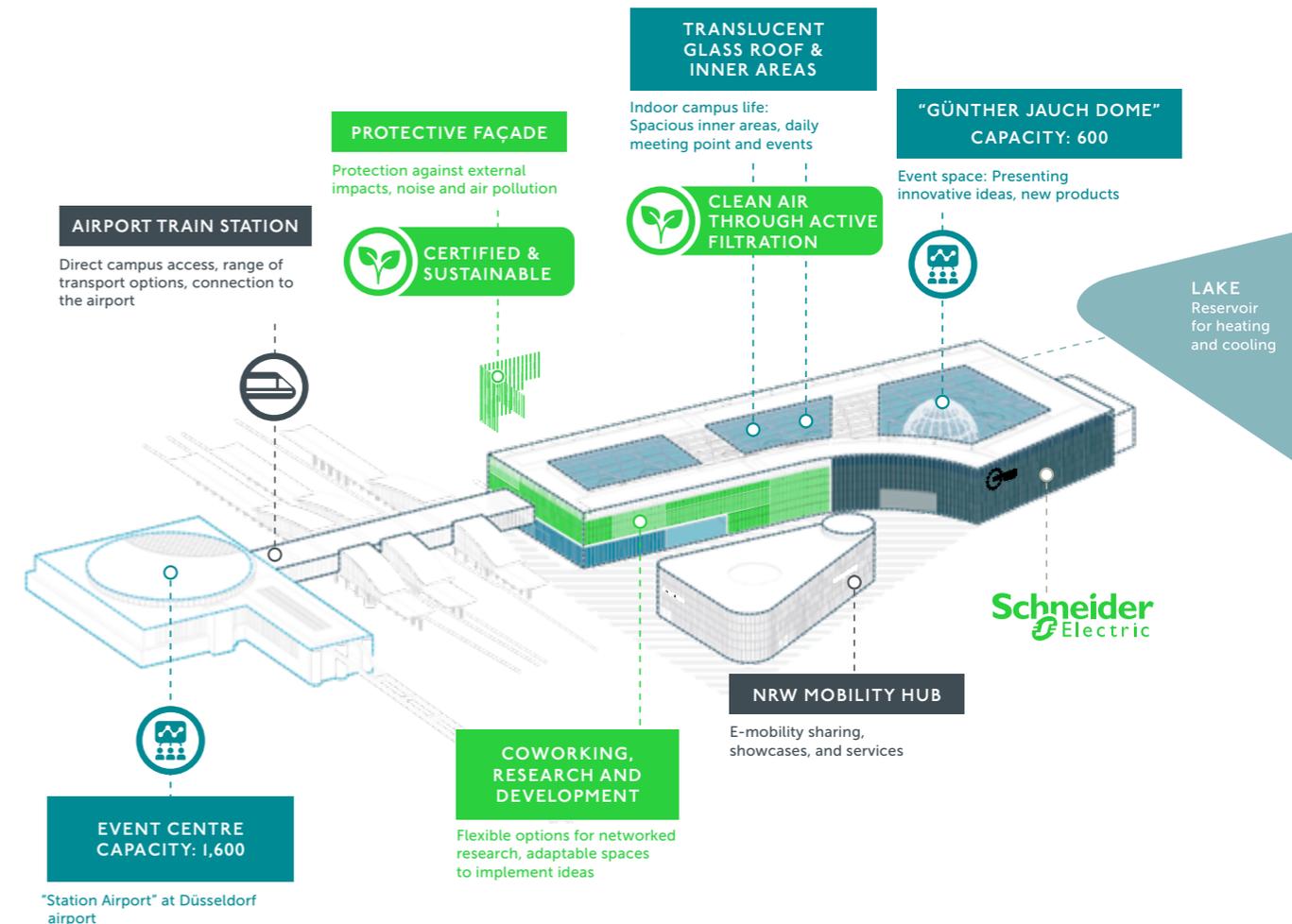
100-10,000
SQM OF FLEXIBLE OFFICE SPACE

OVER **4,000**
EMPLOYEES ON CAMPUS

OVER **40,000**
GUESTS AND VISITORS P.A.



The foundation stone for the new EUREF-Campus Düsseldorf was laid on 14 October 2022 in the presence of the Prime Minister of North Rhine-Westphalia, Hendrik Wüst, and the Mayor of Düsseldorf, Dr Stephan Keller. Among the keynote speakers were developer Reinhard Müller, the National President of Implenia, Dr Matthias Jacob, the former CEO of Stadtwerke Düsseldorf, Manfred Abrahams, and the chairman of the CDU party in Berlin, Kai Wegner.

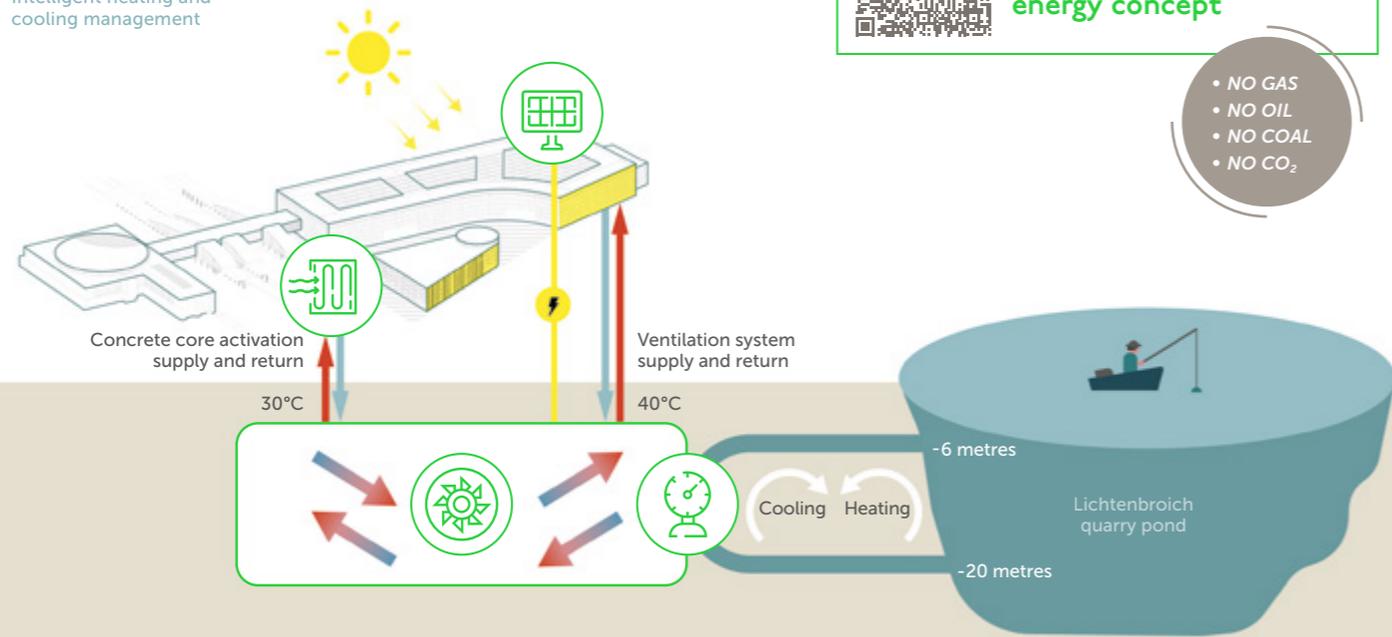




Stadtwerke Düsseldorf AG has been a service provider for electricity, gas, water, mobility and district heating for more than 150 years and is also responsible for the capital's waste disposal. It is one of the country's largest municipal utilities, with around 600,000 customers. With over 3,100 employees, Stadtwerke Düsseldorf AG is a leading employer in the state that stands for tradition and innovation. Stadtwerke Düsseldorf has also teamed up with EUREF to develop a cutting-edge energy concept for the Düsseldorf campus to become climate neutral.

SEAWATER UTILISATION CONCEPT

Intelligent heating and cooling management



In cooperation with:

Life Is On



SPIE's core business is providing services for a carbon-free economy. So, we consider ourselves part of the answer to a sustainable future.

SPIE Deutschland & Zentraleuropa, a subsidiary of the SPIE Group, is the leading multi-technology service provider for buildings, plants, and other infrastructure in Germany, Austria, Poland, the Czech Republic, Slovakia, and Hungary. SPIE provides climate protection solutions in several areas: As a partner in projects that increase the amount of renewable energy sources in the energy mix, in optimising existing building operations with an emphasis on energy efficiency, and as a partner in the transition to sustainable mobility – either hydrogen or electric.

The EUREF-Campus Düsseldorf will be the new climate-neutral headquarters of SPIE Deutschland & Zentraleuropa, supporting the company's growth and sustainability goals. Best of all, SPIE will take over the building complex's technical operations.



The energy transition, climate-neutral conversion of industry, mobility, and building heating are all priorities for NRW.Energy4Climate. The aim of this young NRW state agency for energy and climate protection is to speed up this transformation across all sectors so that North Rhine-Westphalia can become climate-neutral as quickly as possible while at the same time strengthening the region's appeal as a location for industry and services. NRW.Energy4Climate's main location will be the EUREF-Campus in Düsseldorf, providing an ideal setting for networking and strategic project work with flexible office space and meeting and event spaces.





Google Earth: Data SIO, NOAA, U.S. Navy, NGA, GEBCO IBACO Landsat / Copernicus

Digital port of the future

Following Berlin and Düsseldorf, plans are now in place for a EUREF-Campus for the Port of Hamburg, Germany's largest logistics hub. Work on the project will begin in 2025/26 on an area of around 106,400 square metres in a prominent location opposite the Elbphilharmonie concert hall. EUREF will develop a "smart city" quarter at this significant water, land, road, and rail hub in Europe's third-largest port, including offices,

laboratories, workshops, lecture halls, and event spaces. This will reinvigorate the site's historic buildings, establishing a research network that uses EUREF's proven model to generate synergies of science, industry, and start-ups for collaborations on future mobility and energy systems.

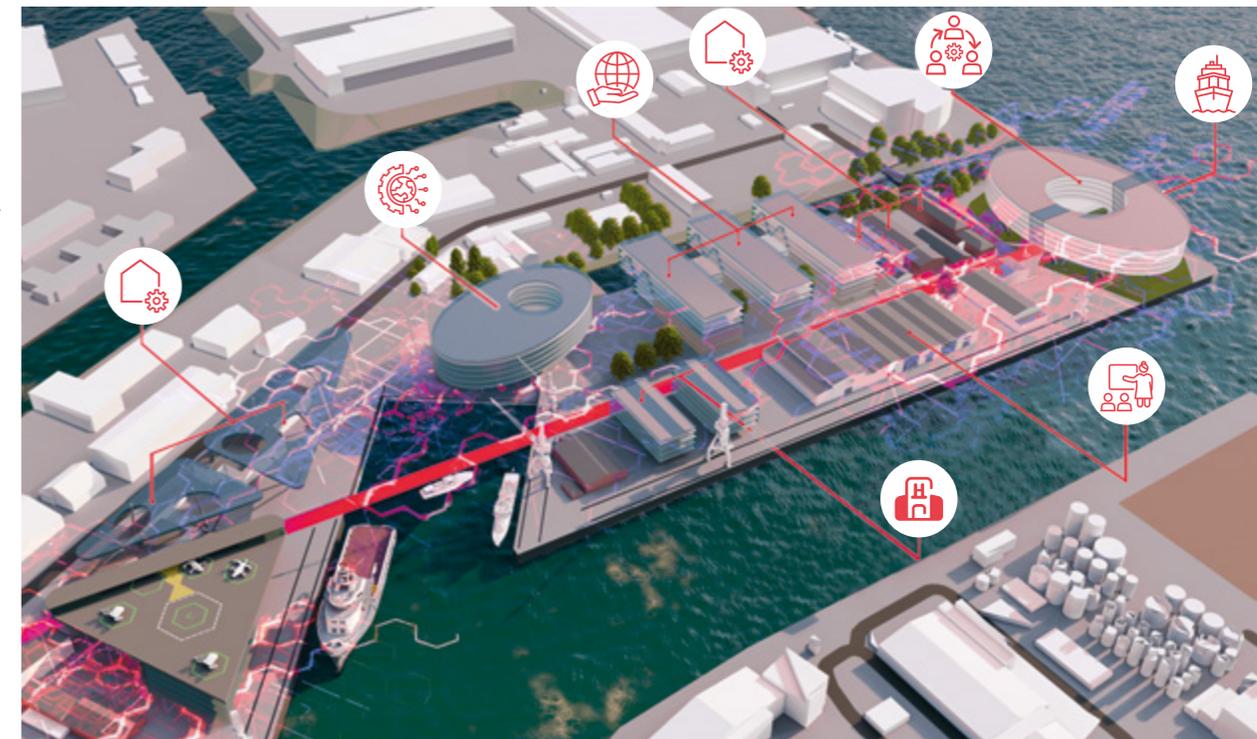
A digital backbone linking individual buildings to a large data centre with green IT is the digital centrepiece of the "smart harbour" campus. Also, the data centre will leverage information and communication technology throughout its full life cycle in an eco-friendly and resource-efficient manner. The energy concept here includes, among other things, using high-efficiency pumps to connect the harbour basin to the site's energy centre and use it as an energy storage facility. The PV systems on campus buildings will generate the electricity for this.

Here, the development of hydrogen energy as a climate-neutral energy source will be given particular focus as a crucial technology for the future, particularly for energy-intensive primary industries and shipping. For this purpose, there are plans to connect to the hydrogen ecosystem of the nearby Hamburg Green Hydrogen Hub. In addition, we will build two e-fuel filling stations for shipping on the campus. There are also plans for a skyport with an e-drone landing pad, berthing facilities for developing prototypes, and an e-ferry with a jetty. And we will install 200 charging points for e-vehicles in the parking spaces in the building basement areas.

The new EUREF-Campus will seamlessly integrate into the Port of Hamburg's future-focused infrastructure and the Hamburg Port Authority's (HPA) smartPORT energy initiative.

-  Open labs, start-ups
-  Technology platform, port of the future
-  Businesses (port, energy and mobility)
-  Campus buildings (HQ, NGOs, agencies)
-  E-ferry jetty
-  Lecture halls, historic halls, event areas
-  Hydrogen/e-fuel filling station

First sketch of ideas from 2022 workshop with the Hamburg Port Authority.



COMING NEXT



IMPRESSUM

Publisher

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Translation

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deutsch-englisch-uebersetzungen.com

Text and graphics

STÖBE. Die Agentur für Kommunikation GmbH

Production and printing

Druckhaus Sportflieger

Renderings

pp. 3, 6, 21, 23, 24–25, 30–31, 37 below,
pp. 59, 62–63, 64, 69 EUREF-Consulting
Gesellschaft von Architekten und Ingenieuren
mbH | p. 37 above found' GmbH

Picture credits

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As of 02/2023
Subject to changes



- Gastronomie Restaurants
- Hotel im Wasserturm Hotel Wasserturm
- Ladepunkte Elektroautos Charging Points Electric Cars
- TESLA Supercharger (12 Plätze) TESLA Supercharger (12 stations)
- Tiefgarage öffentlich Public Underground Parking
- WC rollstuhlgerecht Wheelchair accessible toilet
- WC Restrooms
- Batteriespeicher Battery Storage
- Energiewerkstatt mit BHKW EUREF Energy Workshop with CHP
- Büroflächen EUREF-Campus 1-25 Office Spaces
- Veranstaltungsorte Event Locations
- TU-Campus EUREF Seminarräume TU-Campus EUREF Seminar Rooms
- Pförtner / Information Concierge / Info





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