



SUSTAINABLE BUSINESS, FUTURE-ORIENTED GROWTH
MOORING IN BREMERHAVEN

CONTENT



- 4 LOCATION AND ECONOMIC STRUCTURE
- 8 PORT AND LOGISTICS
- 12 FISH AND FOOD INDUSTRY
- 16 OFFSHORE WIND INDUSTRY
- 20 SCIENCE AND RESEARCH
- 26 TOURISM AND QUALITY OF LIFE
- 30 SUSTAINABLE INDUSTRIAL PARK
- 34 BUSINESS DEVELOPMENT

ACTING IN CONCERT – FOR A SUSTAINABLE BREMERHAVEN

Pursuing the guiding principle of a Green Economy, we, the economic development company of the City of Bremerhaven, would like to provide additional support regarding environmentally friendly, qualitative and, as such, sustainable growth. The foundation for

this is constituted by numerous Bremerhaven companies, institutions and the research sector. Examples of these will be provided in this brochure. Already today, they demonstrate how well ecological challenges can be reconciled with prosperous business dealings.

Bremerhavener Gesellschaft
für Investitionsförderung
und Stadtentwicklung mbH



Welcome to Bremerhaven, home port of the Green Economy

More than ever before, companies see themselves in global competition for national and international market shares. In the Federal State of Bremen, we see this competition as an opportunity to make a contribution that will ensure the creation and securing of future-oriented jobs. This is to be achieved through the close intermeshing of economy, ecology, science and social aspects. Bremerhaven's economic structure offers strong players for achieving this: Bremen "greenports", as a mainstay for sustainable logistics; the food industry that is characterised by resource-friendly production; the offshore wind industry that is an important building block for successful energy transition. In particular, however, this is also achieved by the local small and medium-sized companies which, owing to their flexibility and innovative power, are important drivers for energy and resource efficiency, in addition to an internationally renowned

research and development landscape that successfully cooperates with the local economy and helps to find answers to topical future questions.

Yet another advantage of the maritime city: the availability of commercial real estate in close proximity to the water front with sufficient water depth for sea-going vessels and as such opens up a world of outstanding economic prospects. Here, by taking into account sensitive dealings with nature and the landscape, we would like to create possibilities for further economic growth and develop a sustainable industrial park. First and foremost, we have entrepreneurs in our sights who, with their companies, would like to assume responsibility for people and the environment.

We would be delighted to welcome you to Bremerhaven as well!



Martin Günthner

Senator for Economy, Labour and Ports
of the Free Hanseatic City of Bremen



The guiding principle of the Green Economy – sustainable economic growth – this is the future! And this has long since not only applied on paper at Bremerhaven: energy and raw material efficiency, sustainable mobility, environmental technology, ecologically acceptable waste management or corporate social responsibility are fields of action that have already found their way into numerous Bremerhaven companies' daily operations. In this regard, 33 of the "Partnerschaft Umwelt Unternehmen" (Partnership Environment Companies) environmental network's companies come from Bremerhaven and, with their environmental performances, which by far exceed the stipulated legal framework, they demonstrate how one can be competitive also with environmental and climate protection activities.

Our location has successfully set the course to achieve this. And our environmentally active economy, which has cast anchor here, cooperates closely with science, research and politics. In this brochure, you will get to know the ropes for this – the green connection in our maritime city in more detail. This is because we all pull together here: politics, administration, business, science and civil society. On the following pages you can find out for yourself what our maritime city has on offer, and how your company can benefit from it, too. You will see: mooring in Bremerhaven is worth your while!

Melf Grantz

Mayor of the City of Bremerhaven



An aerial photograph of a coastal port city. In the foreground, a large industrial area with numerous buildings, cranes, and docks extends along a riverbank. The river curves through the city, with several boats visible on the water. In the background, more industrial buildings and green fields are visible under a clear sky.

LOCATION AND ECONOMIC STRUCTURE



Facts & Figures

- The Federal State of Bremen consists of Bremerhaven and the City of Bremen, which is located 53 km to the south of it. As such, it is the only German two-city state.
- 119,937 inhabitants (status 31.12.2015) live on a total surface of 9,382 ha.
- In the Luneplate district, on a surface of 1,284 ha, is the largest nature reserve of the Federal State of Bremen.
- The largest employers are Adwen, the Alfred Wegener Institute for Polar and Marine Research, BLG LOGISTICS, Deutsche See, Eurogate, Frosta, Frozen Fish International, MSC Gate Bremerhaven, North Sea, NTB North Sea Terminal Bremerhaven, PowerBlades, Senvion.
- About 1,500 employees are employed in the fields of science and research.
- High-performance terminals connect the maritime city with the largest ports on earth.
- Annually, about 100,000 holidaymakers board cruise ships from the ColumbusCruiseCenter.
- Optimal hinterland access via the motorway, railway and inland waterways.

THE GREEN CITY AT THE BLUE SEASIDE

The location on the Außenweser and with the North Sea right outside - ever since its founding in 1827, these factors have decisively influenced the business location of Bremerhaven.

With about 120,000 inhabitants on a surface of almost 94 square kilometres, Bremerhaven is the largest city along the

German North Sea coast, and it is characterised by a distinctive maritime profile. With its harbours, the city is pivotal for commodity flow to America, Asia and Europe. As such, it is an important logistics location. A well-known fish and food industry concentrates its activities here. More yet: Bremerhaven offers a healthy branch mixture with innovation potential, including everything from global players to small and

medium-sized enterprises from industry and trade, craftsmanship and service. That the maritime city is also an ideal recreational location is confirmed by the growing number of visitors. Numerous sightseers and tourists come to experience a trip through the climate zones at the Klimahaus (science center), go for a walk along the dike or discover the bank of the Weser River and its idyllic countryside by bike.

ESTABLISHED LOCATION WITH A BRIGHT FUTURE

The fresh breeze blowing here ensures tailwind for our business. Developers and discoverers with innovative ideas have found their home port in the maritime city. With them, a progressive approach and sustainable business dealings have a long tradition: in this regard, the Alfred Wegener Institute for Polar and Marine Research (AWI) laid the foundation for Bremerhaven's development toward a climate city in 1980. With us, pioneers in the field of offshore wind power development are right at home, and it is also here that the concept of sustainable fishing had its

origin. In line with the "greenports" philosophy, our ports are characterised by responsible environmental dealings. We resolutely pursue this adopted course: with the guiding principle of Green Economy, which is set to positively mould the future business development of Bremerhaven, create new jobs in the future green markets, and ensure prosperity for the citizens. An important partner with this process is the research and development landscape that is located here and enjoys an international reputation in the energy and resource efficiency sectors.





PORT AND LOGISTICS



SET SAIL WITH “GREENPORTS”

At the Außenweser, one can effectively set sail for all corners of the world, using the shortest possible path. Companies in a variety of different sectors benefit from these - and many more - locational advantages.

As the fourth-largest European container terminal and most powerful automotive hub on our continent, Bremen

ports are attractive worldwide. At the Autoterminal, for instance, more than two million vehicles are handled every year - and the trend is growing. For this reason, the “Kaiserschleuse”, which was constructed in 1892, was modified a few years ago. In future, it can also be passed by the largest car carriers. The Bremen ports also offer a significant benefit for the offshore wind industry,

where reliable supply and delivery via maritime transport is essential: for the neighbouring commercial areas, Bremerhaven is both a production and logistics location. Yet another core competence of the service providers on site benefits the fish and food industry - the storage and distribution of time critical and temperature-controlled goods.



Facts & Figures

- The largest ships, with up to 18,000 containers on board, also regularly set sail from here.
- In 2015, container handling amounted to more than 5.5 million TEU (standard containers); 60.7 million tons were handled in the field of seaborne cargo.
- About 95,000 parking spaces are available for vehicles at the Autoterminal, of which 50,000 spaces are covered.
- EUROGATE, the container terminal operator, relies on regenerative energy sources. The purpose is to reduce the CO₂ emissions per container by 25 % by 2020. For this, it also operates an own wind turbine plant in the port. Annually, it produces 9 million kWh of electricity, which is sufficient to load and unload 2 million containers.



LONGEST RIVERSIDE QUAY ON EARTH

It is the maritime city's container terminals that create yet another record: after a total length of five expansion measures, the premises have grown to a total of almost five kilometres. This longest connected riverside quay on earth simultaneously offers 14 berths for large container vessels. The entire harbour infrastructure is operated by bremenports on behalf of the Free Hanseatic City of Bremen. The company's experts remain in close contact with the maritime business and logistics to consistently and sustainably align the port's development to current and future needs.

»As logistics hub of the north, the long-term planning of a future-oriented infrastructure is of vital importance. This only functions when all aspects of sustainability are taken into account. This strategy, which is summarised under the header of "greenports" is not only becoming increasingly more important for us as an international logistics service provider but also for our customers. With this advantage, we can also assert ourselves on the market in competition with other ports.«

Frank Dreeke
CEO BLG LOGISTICS

“GREENPORTS” – EVERYTHING POINTING TOWARDS GREEN

By the way: already for many years, bremenports has been aligning the port's destiny to the “greenports” strategy. The objective is to reconcile economy, ecology and other social requirements. In this regard, partners from science and business assist on site. Projects are realised in cooperation - from ecological compensation for the quay and lock construction, right up to numerous solutions for environmentally-friendly port operations. In so doing, state-of-the-art technology reduces the noise level on the premises, and shipyards clean service water for recycling. Should this be requested, the possibility

to supply ships with LNG (liquefied natural gas) - which makes shipping cleaner - can be guaranteed. LNG drive-trains that are also deployed with ships in port maintenance as of August 2016 reduce the emission of nitrogen oxide by up to 80 per cent as well as carbon dioxide emissions by 20 per cent. There are no more sulphur dioxide and fine dust emissions - an important contribution for climate and environmental protection.

greenports

FISH AND FOOD INDUSTRY





ARRIVING FRESHLY ON LAND AND SUSTAINABLY PROCESSED

Having grown from a long tradition and equipped with state-of-the-art technology - this is how we produce here. A high degree of innovation is guaranteed by optimal networking with research establishments.

Fresh fish is a part of us, just like baguette is a part of Paris. More than 5,000 persons are employed in the local fish and food industry today. With about 80 large-scale enterprises and medium-sized operations, Bremerhaven

is the centre of German fish processing and a hub for additional commodity flow: additional high-grade foods are processed to first-class convenience products here. It is not without reason that internationally active companies from the fish and food industry, such as Frozen Fish International, Frosta, Deutsche See, Meereskost and Nordsee, have their headquarters in Bremerhaven: packaging and storage companies are located in the fishery port as well as forwarding agencies that are specialised



in refrigerated transport. Research establishments that focus on product development, food analytics and quality assurance support the local companies in further optimising their processes and developing innovative products. What is more, with the port and an optimal connection to road and rail traffic, the location allows numerous trade and distribution routes to the world. By the way: in Schaufenster Fischereihafen, city guests can enjoy the oceans' offerings in a maritime atmosphere.



Facts & Figures

- The per-head consumption of fish products is about 14 kg per year, and counting.
- Experts of the World Wide Fund For Nature (WWF) have pointed out that global fishing has no more growth potential, and that fishing grounds must be treated with great care.
- In Bremerhaven, aquaculture in recirculating systems is being expedited. It is an important source of sustainable business growth and, as such, also serves as a job engine in the fish and food industry.
- Frosta was the first food producer in Germany to participate in a pilot project for determining carbon footprints. The results prove: the greenhouse gas emissions that are released in the course of manufacturing and consuming the inspected dishes are similar to those of home-cooked meals!

CAST OFF FOR SUSTAINABLE PRODUCTION

In Bremerhaven, the fish and food industry can rely on partners from science and politics to master some of their greatest challenges: reducing their own energy consumption and minimising environmental pollution. In the maritime city, sustainable, ecological production is accelerated in mutual projects, promotion programmes and a great degree of self-initiative on the part of the companies. This is bearing fruit: in the past five years, thanks to environmental investments and responsible actions, the complete industry has significantly reduced CO₂ emissions and, in so doing, has contributed considerably to staying on track with the "Climate City" objectives.

◎ Soon on board: Thünen Institute

In 2018, the Thünen Specialist Institute of Fisheries Ecology will be moving into newly constructed premises in Fischereihafen. Employees promote long-term and healthy fish populations and ecological systems in the North Sea as well as in the North Atlantic with their fundamental research. With their work, they are a boon for businesses on site.

»The topic of sustainability is a matter close to our heart. So as not to jeopardise the fish variety, we only use fish and seafood from sustainable, MSC-certified fishing. An additional goal of our company is to further reduce our greenhouse gas emissions. In this regard, we in Bremerhaven find ourselves in best company together with other companies and institutions, who already form a strong network today, especially in the fishing economy.«

Felix Ahlers
CEO of FRoSTA AG



OFFSHORE WIND INDUSTRY

An aerial photograph of an offshore wind farm. Numerous wind turbines are scattered across a vast, dark blue ocean under a clear sky. The turbines have white blades and are mounted on yellow and grey foundations. Some turbines are in the foreground, while others are further out at sea. The perspective is from above, looking down at the turbines and the ocean surface.





GIVING WINGS TO THE ENERGY TRANSITION WITH GREEN ELECTRICITY

In Bremerhaven, the complete branch competence is bundled at one location. The result is numerous linking factors for the wind business.

With regard to offshore wind power, course was set for the vast ocean expanse already more than ten years ago. With success: the city is the industrial and scientific centrepiece for the European offshore wind power industry. At no other location on earth is there such a closely-meshed network of pioneers and developers, producers

and service providers along the entire value chain. Be it in the form of planning offices and financiers, manufacturers and subcontractors of machines, rotor blades and foundations, or apprenticeship and research centres. In the meantime, the full range of industry competence is on board. Thus it comes as no surprise that the network of the offshore wind power sector of the north-west region, which simultaneously is the German-wide contact partner for the offshore wind industry, has its headquarters in Bremerhaven: the WAB wind power agency, which

in the meantime has more than 350 companies and institutions as members. They are regularly brought together to discuss their experiences - at trade fairs, events and study trips or with project cooperations.

Facts & Figures

- With Senvion and Adwen, two manufacturers of offshore wind turbines are domiciled at the location.
 - A rotor blade manufacturer (PowerBlades)
 - 1,500 directly employed persons
 - Approx. 50 service providers and subcontractors supplying the offshore wind industry, with about 1,000 employees
 - An additional 270 ha for production and assembly surfaces are available in direct proximity to the manufacturers.
 - Bremerhaven is a test location for six offshore wind turbines
 - A master programme in wind power technology at the Bremerhaven University of Applied Science
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ALWAYS ON THE RISE

Materials must be tested, turbines and equipment must be optimised: offshore wind power is a comparatively young branch. Accordingly, the need for fundamental research and innovative development is high. This is taken into account with practice-oriented research facilities and companies. One of these is the German WindGuard Engineering GmbH. Among other things, it operates a special laboratory with an acoustically-optimised wind channel for the quality assessment of rotor blades.



CLEAN ENERGY AT THE BLUE OCEAN

The location offers best conditions for offshore wind power industry companies - also for rapid growth. From here, powerhouses, rotor blades, towers and even entire transformer stations can be transported abroad: to destinations worldwide or directly to the wind farm construction sites in the German bay. Bremerhaven offers a specially constructed quay and terminal for this. With the further development of waterside commercial areas that are suitable for seagoing vessels, and with investments in the infrastructure, optimal prerequisites are also created for start-up companies.



»The offshore wind power sector is at home in Bremerhaven - and we from Fraunhofer IWES are right at the centre of things. The gigantic components of the new turbine generations, which have a weight of up to 400 tons, are tested at our test stands. Thus the direct proximity to the quay is a true locational advantage, since it offers our international customers tangible logistic benefits. With the development and expansion of new test infrastructures on site, we can optimally link competences and expand our portfolio in a needs-based manner.«

Dr Antje Wagenknecht
Office Manager of the Fraunhofer Institute
for Wind Energy and Energy System Technology

SCIENCE AND RESEARCH





DEDICATED TO THE FUTURE - DEVELOPING SUSTAINABLE INNOVATIONS

This is how business stays on the road to success right from the outset: with partners and pioneers from science and research, who lie at anchor in the maritime city.

It is the engine of the Bremerhaven business location and trendsetter for companies in a large number of different branches: the nationally and internationally successful scientific landscape set in the maritime city. With its numerous research establishments, the scientific sector is

densely populated. This exerts a great pulling force and allows direct contact to the companies on site. Close co-operation with the economy has always played an important role for all institutes. Working together, projects are realised and products developed to market maturity.



The science and research establishments with regard to the Green Economy

- Alfred Wegener Institute for Polar and Marine Research (AWI)
- fk-wind – Institute for Wind Energy at the Bremerhaven University of Applied Sciences
- Fraunhofer Institute for Wind Energy and Energy System Technology (IWES)
- Bremerhaven University of Applied Sciences
- Institute of Shipping Economics and Logistics (ISL)
- Thünen Institute for Sea Fisheries and Fisheries Ecology (starting from 2018)
- ttz Technologie Transfer Zentrum Bremerhaven
- Centre for Aquaculture Research (ZAF)
- Zoo am Meer - research and information centre for nature and species conservation

MARITIME RESEARCH AND MORE

Cooperation between science and business also determines the focal points of research. Here, in particular, topics such as marine ecology, global warming, port industries, food and fisheries management, optimisation in the offshore wind industry as well as maritime traffic development and logistics are worked on. Additional fields are still to be added. These are, for instance, fishery research, which will soon already be run by the Thünen Institute in Bremerhaven.

»We students feel right at home here, also because we can gain practical experience in the numerous degree courses in institutes and companies in Bremerhaven. Not only does this prepare us well for our working life but already offers contacts to potential employers during our studies.«

Annika Richter
Master Programme Wind Power Technology

● Bremerhaven University of Applied Sciences **Coming down from the ivory tower and climbing up to the beacon fire**

Already in 1879, a navigation school came into being in the maritime city and shortly thereafter the urban technology centre - both of which are precursors to the present-day university. To this very day, it has preserved its maritime profile. Among the 24 technical, scientific and business economic bachelor and master programme courses, a number of them bear reference to the ocean and climate, for instance in the form of energy and marine technology, building and wind power technology as well as environmental technology. In exchange with local businesses, all fields have a vocational orientation and practical alignment. The benefit for entrepreneurs: junior staff members are trained in accordance with their specific requirements.



»The networking of science and business here in Bremerhaven is something special. It is not only our students who benefit from this very practically-oriented profile of our University. It also serves as a beacon for the entire region and beyond.«

Prof Dr Peter Ritzenhoff
Rector of Bremerhaven University of Applied Sciences

● Centre for Aquaculture Research **Recirculation plants for sustainable fish farming**

In the Centre for Aquaculture Research (ZAF), the controlled breeding of aquatic creatures such as fish, mussels or crustaceans is tested in modern aquarium systems. In so doing, valuable insights are gained for professional fish farming, whilst at the same time complying with high ecological standards. In addition to this, the associated laboratory offers numerous possibilities to investigate environmentally relevant scientific issues.



»Bremerhaven is not only the optimal starting point for our work but also the perfect berth to practise research in inter- and transdisciplinary exchange. While taking a close look at what was and what is, insights gained from numerous vantage points can be utilised for sustainable future concepts.«

Prof Dr Karin Lochte
Director of the Alfred Wegener Institute

Alfred-Wegener-Institut Exploring the climate

As the Helmholtz Centre for Polar and Marine Research, the Alfred Wegener Institut (AWI) first and foremost works in the cold and temperate regions of the world. It is one of only a few establishments to be equally active in the Arctic and Antarctic. However, its employees also research the North Sea and its German coastal regions. AWI's objective is to decode the complex processes in "System Earth" - from the atmosphere, down to the depths of the oceans - and to understand the climatic processes. For this, the institute cooperates with numerous national and international partners. AWI's expertise is called for: among other things, it makes important contributions for the Intergovernmental Panel on Climate Change (IPCC) climate report.

fk Wind Institute for Wind Energy Ensuring things run smoothly

The institute, which is located at the Bremerhaven University of Applied Sciences does research in the fields of rotor blades and measurement technology and optimises wind turbine plants. With success: in a project together with the industry, for instance, a system of electric heating elements and intelligent regulation was developed that ensures that no ice is formed on the rotor blades.



»With our new construction in Fischereihafen, we have laid the foundation for even more efficient fishery and aquaculture research in Germany. Bremerhaven is the centre of fisheries management and, together with the existing professional expertise in marine research; it offers an outstanding possibility to unite research and application for sustainable utilisation of the oceans at one location. As Thünen Institute, we would like to use this locational advantage for excellent, application-related research and political consultation.«

Dr Gerd Kraus
Head of the Institute for Sea Fisheries at Thünen Institute



ISL **Sustainable logistics concepts by the water and behind**

The Institute for Shipping Economics and Logistics (ISL) is specialised in logistical systems, maritime business and traffic as well as information logistics. Interdisciplinary teams supervise corresponding projects worldwide and by order of companies. This is done with the purpose of turning innovative ideas into practical solutions or sustainable business models. The foundation for this is formed by the analyses of influencing factors, interdependencies and the development of maritime business and logistics - which is decisive for Bremerhaven's future.



Fraunhofer IWES **A breath of fresh air**

The Fraunhofer Institute for Wind Energy and Energy System Technology (IWES) conducts its research in a highly application-oriented manner. This means: what was developed here directly benefits the industry and is of value for society. All activities are aligned to the wind power industry. In exchange with clients, methods and solutions are elaborated for higher system availability and improved efficiency of wind power production. This is done so that renewable energies can be gained in the most efficient manner possible. For this, the Fraunhofer IWES operates testing infrastructure for huge components that offer unique testing possibilities.



ttz

Research service provider for food and resource efficiency

Under the umbrella of the independent "Technologie-Transfer-Zentrum" (ttz) Bremerhaven, an international team of experts works in the field of food and environment. Novel procedures that are aimed at securing food quality; the extraction of bioactive substances by means of the monetised utilisation of secondary products; intelligent procedures for (sewage) water treatment - regarding all of these themes, companies will find the right contact person here to support them in further optimising their products and processes. New alternatives are also developed for organic farming within the context of practice-oriented research projects in the field of ancient grains utilisation.



TOURISM AND QUALITY OF LIFE



LIVING AND WORKING WHERE OTHERS GO ON HOLIDAY

Thanks to a great number of offers for young and old, this maxim definitely holds true in Bremerhaven.

Facts & Figures

- Bremerhaven stands for climate-friendly energy: in the meantime, a total of 23 wind energy plants with an overall performance of 72 MW continually feed green electricity into the supply grids. With a projected input of 144,000,000 kWh and an average consumption of 4,200 kWh for a 4-person household, 35,000 households can theoretically be supplied with energy.
- The number of persons considering Bremerhaven an attractive place to live has increased by 15 per cent in the past eight years. This is the outcome of a survey conducted by the Chamber of Labour. The reason: investments in the city's quality of life - for instance in museums, the infrastructure and a successful cultural policy.
- The number 1 visitor magnet is the Klimahaus, with about 465,000 guests per year in 2015. This is followed by Zoo am Meer, with almost 279,000 visitors and the German Emigration Centre, with more than 171,000 visitors.
- The maritime city noted an increase of 9.7 per cent in overnight stays in the first three months of 2016. During the same time, the number of visitors from abroad increased by 15.6 per cent.
(Source regarding the visitor figures and guests:
Statistical Office of the Federal State of Bremen)

Gigantic ships on the horizon, sunbathing on a sandy beach: Bremerhaven is located directly by the ocean and has a maritime flair. Every conceivable type of water sports is possible here. Surrounded by nature reserves, the maritime city also extends an invitation to discover the surroundings while undertaking cycling tours - both along the Weser River and far beyond. There also is plenty of green in the heart of the city:

parks and gardens offer space for recreation right in the city centre. With the target of increased tourism, investments have successfully been made in cultural and leisure offers in the course of the past years. Today, a variety of attractions such as the Klimahaus, the German Emigration Centre, Zoo am Meer and the German Maritime Museum are attracting increasing numbers of guests to Bremerhaven.





COASTAL CLIMATE + GOOD CONNECTIONS = QUALITY OF LIFE

What other reasons ensure a good life in the maritime city? Nowhere else is the air cleaner and healthier than by the North Sea. What is more, Bremerhaven is both family- and child-friendly. Apart from about 80 sport clubs and 75 educational institutions, there also are numerous playgrounds - some of which have been created according to special thematic focal points. Another positive aspect speaking out in favour of the city: thanks to good traffic connections, Bremen and Hamburg as well as the North Sea Islands can quickly be reached.

(Source for the figures: Statistical Office of the Federal State of Bremen)

»We, the Jugendklimarat, would like to participate in Bremerhaven when it comes to climate and environmental protection, and provide a concrete contribution in doing something about the throwaway society. This is why, for instance, we brought the repair café into being. We want to enlighten Bremerhaven's teenagers and children regarding climate protection and sustainability, so that Bremerhaven remains just as green and worth living in, and loving, in future.«

Swantje Malin Schäfer
Speaker of the Jugendklimarat Bremerhaven
(Youth Climate Council)



»The climate plays an outstanding role in the lives of people - also in the maritime City of Bremerhaven. Here, in Klimahaus, one can touch and be touched and, in so doing, experience how fascinating and sensitive the system earth is, but also what every individual can do to ensure that the impacts of global warming will not be as grave here in future as already noted at numerous other locations on earth.«

Arne Dunker
Managing Director Klimahaus® Betriebsgesellschaft mbH

GREEN EVENTS AND OVERNIGHT STAYS

In Bremerhaven, the topic of sustainability is also on the hotel business' agenda and when it comes to events. Atlantic Hotel Sail City, for instance, bears the "Certified Green Hotel" label. This is because, in more than 70 environmental categories, it satisfies the requirements from the categories of energy, water, waste, food and beverages, mobility, corporate social responsibility (CSR) as well as information and responsible conduct.



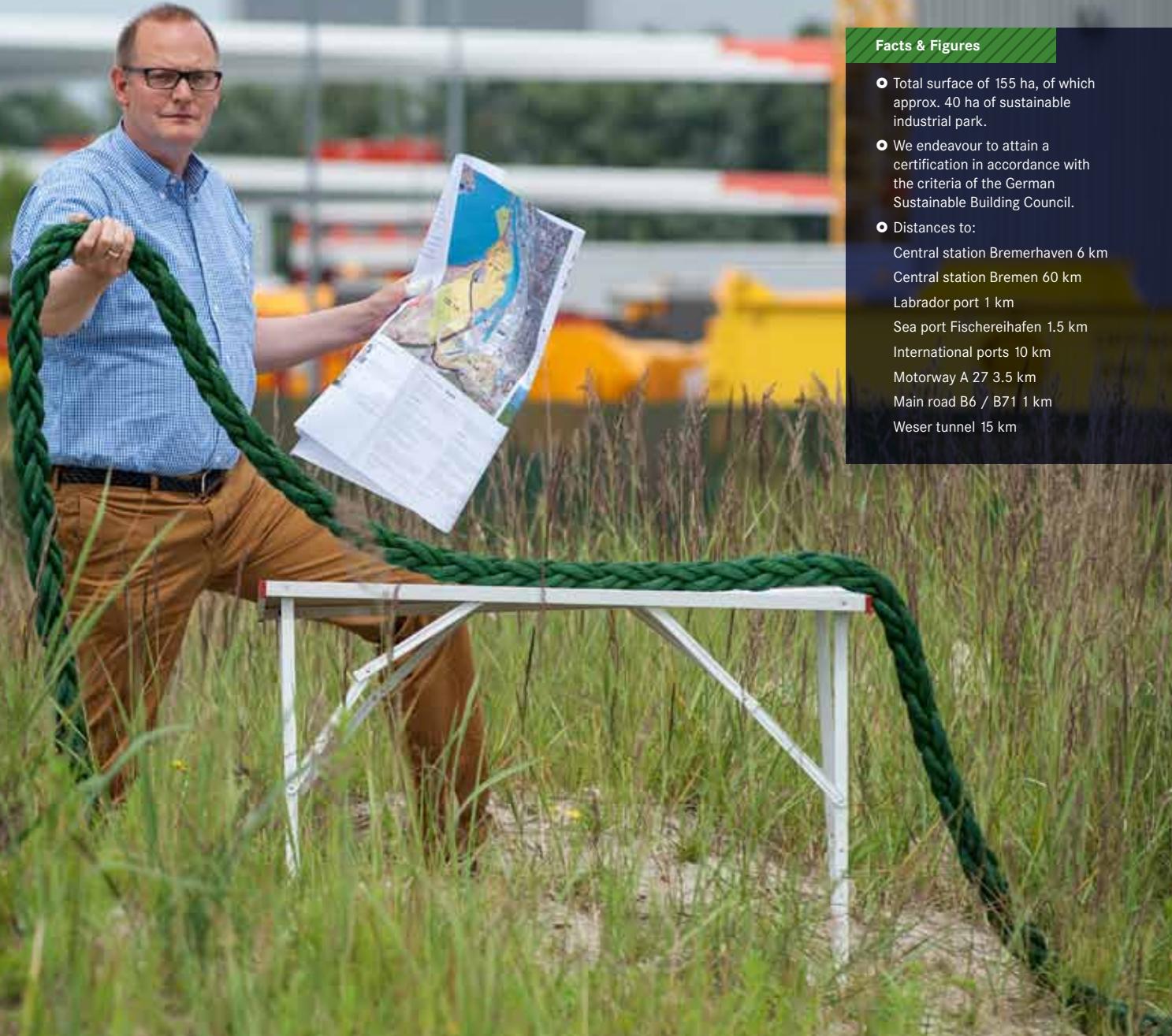
SUSTAINABLE INDUSTRIAL PARK



»With our instruments, we, as a business development company, actively support the Bremerhaven location in mastering the challenges posed by structural change. Here, not only should Green Economy be the guiding principle but it should also develop the considerable potential of the business location in the field of climate-associated business and science. A key component and flagship project is the planning and implementation of the sustainably-aligned industrial park at Luneplate.«

Nils Schnorrenberger

Managing Director of Bremerhavener Gesellschaft für Investitionsförderung und Stadtentwicklung mbH (BIS)

**Facts & Figures**

- Total surface of 155 ha, of which approx. 40 ha of sustainable industrial park.
- We endeavour to attain a certification in accordance with the criteria of the German Sustainable Building Council.
- Distances to:
 - Central station Bremerhaven 6 km
 - Central station Bremen 60 km
 - Labrador port 1 km
 - Sea port Fischereihafen 1.5 km
 - International ports 10 km
 - Motorway A 27 3.5 km
 - Main road B6 / B71 1 km
 - Weser tunnel 15 km



This is where they will arise: attractive commercial areas with a special accent. Here companies wishing to realise their vision of future-oriented work will feel right at home. On a surface of about 40 ha, an industrial park is being developed that provides the framework for environmentally-friendly, resource-saving and economically efficient working.

GREEN BUSINESS AT LUNEPLATE

In Bremerhaven, infrastructure development goes hand in hand with nature conservation. Here, for instance, in the south of the City of Bremerhaven, ecological compensation areas are created for a number of different infrastructure projects.

Today, on a surface of approx. 1,400 hectares, "Große Luneplate" is the largest nature reserve of the Federal State of Bremen - and a registered EU bird sanctuary. A large part of the area is a stopover site for Nordic geese, swans and waders, the coursers. The Luneplate serves as a breeding area for bird varieties living in reeds, as well as water and meadow birds. However, in responsibility for flora and fauna, additional steps are planned: to create a "buffer" between the nature reserve and the adjoining industry park, a part of the surface still avail-

able is to be developed in a manner ensuring that sustainability principles are satisfied. The purpose of this is to protect the landscape-sensitive area and preserve the natural resources. What is found behind the newly created industrial park with pioneer character: companies willing to settle here, shall be offered the possibility of doing "green" business in accordance with sustainable construction plans, in an attractive working environment - with concepts for energy and resource efficiency, environmentally sound dealings with waste water and waste, as well as climate-friendly mobility. Thereby, Luneplate is an attractive address for all those companies wishing to develop their business premises in accordance with ecological, economic and social aspects. A business strategy by means of which qualified personnel can be retained in the long run.



»The planned industrial park points out a way toward a future economy that we are happy to embark on with you. At this location, good business can be wonderfully harmonised with the necessary ecological criteria. This also applies for us as a future neighbour of the planned industrial park.«

Karl-Heinz Fabel
CEO of Norddeutsche Steingut AG



BUSINESS DEVELOPMENT



SUCCESSFUL, FROM THE IDEA TO THE MARKETING OF THE PRODUCT

An important service on site: navigational aid and support with the launching of the Green Economy.

Mooring in Bremerhaven - this is worth your while right from the start. We from the Bremerhavener Gesellschaft für Investitionsförderung und Stadtentwicklung mbH (BIS) are your contact persons for all questions revolving around business development. By order of the City

of Bremerhaven, we accompany and support companies with our competent team when it comes to restructuring and new settlements. Thereby, short decision paths are guaranteed by the fact that our work is closely linked with the business specialist areas of the magistrate, which directly report to the mayor. What is more, we can independently take a decision on the applications regarding the federal state's business development programmes.

Our portfolio of services:

- Support of domiciled companies, for instance with expansion projects, funding projects and financing
- Consultation and accompaniment when searching for a location and new settlement
- Sales of commercial areas and commercial properties
- Letting of commercial properties
- Search and mediation of office and commercial areas
- Support with government approval procedures
- Operation of business incubators and technology centre
- Consultation and granting of investment, innovation and environmental support as well as additional funding programmes of the Federal State of Bremen
- Start-up consultation and support
- Consultation regarding funding programmes of the federal government as well as the EU
- Initiation and accompaniment of R&D projects and technology transfer between companies and scientific institutions
- Infrastructure development and realisation (road construction, civil engineering, hydraulic engineering, etc.)
- Development of a demand-driven and future-oriented commercial area offer
- Support in winning skilled-workers
- National location marketing and acquisition of companies
- Realisation of compensation measures
- Organisation of joint booths at trade fairs
- Cluster activities and networking



FOR IMPETUS TO GET STARTED

With our Green Economy strategy, we initiate, accompany and support structural change. This takes into account the ecology and economy in equal shares. Among other things, the concept provides for the development of pilot projects in the Green Tec sector at the location and plans to extend the scientific competence in this field. We also endeavour to have companies from environmental economics establish themselves here and create impulses for economic growth that are in harmony with nature and environment. In this regard, we do our bit to reduce harmful greenhouse gases and, simultaneously, create "green" jobs in the city.

BECOMING ACTIVE OURSELVES

Not only do we encourage a Green Economy, we would like to be a role model ourselves: within the framework of our green transformation strategy and following a detailed inventory, we have now put our money where our mouth is. For instance, the office illumination has been retrofitted to LED, and the IT systems have been adjusted to optimise their energy efficiency. In addition to this, colleagues are encouraged to travel to our customers using public transportation, bicycles or the own in-house e-vehicle. And: our list of implemented measures targeted at protecting the environment is constantly growing.

»Our company, which was founded in 2011, busies itself - among others - with the development of wind power components that have the purpose of increasing energy efficiency and reducing noise pollution. It is also involved with the innovative construction of multifunctional special ships for the offshore sector and the construction of prototypes. For the development of our young company, the variety of different support options offered by the Bremerhaven Economic Development Company, was and still is extremely helpful. By means of this, we had the feeling we were in good hands and looked after well right from the outset.«

Martina Kuhlmann and Rolf Rohden
Managing Directors of INNOVEN GmbH



STRONG NETWORKS AND INITIATIVES FOR TODAY AND TOMORROW

BIS is a cooperation partner and member of the regional (climate protection) networks and initiatives, which are described in the following:

Deutsche KlimaStiftung

In order to understand the consequences of climate change, knowledge as to how the climate system functions is an important prerequisite. The goal of Deutsche KlimaStiftung is to use events and education projects to present courses of action, both domestically and abroad, for sustainable development and climate protection in a vivid manner.

www.deutsche-klimastiftung.de



energiekonsens - the climate protectors

energiekonsens is the charitable climate protection agency for Bremen and Bremerhaven. The establishment's objective is to organise energy utilisation in companies and private households in the most efficient and climate-friendly manner. This is brought about by means of events, campaigns, projects and in cooperation with companies and institutions. The projects have the purpose of removing obstacles, providing information on resource-preserving behaviour and motivating people and companies to become active themselves.

www.eneriekonsens.de

Heading toward the Climate City of Bremerhaven

With a municipal masterplan for an active climate policy, the City of Bremerhaven has taken up the cause of climate protection as a public responsibility. Here, "Climate City of Bremerhaven" serves as a guiding principle, according to which the future actions of the city, its companies and citizens are to be aligned. To realise the defined climate protection objectives, contributions for a uniform, sustainable cityscape within the context of a variety of working groups are provided.

www.klimastadt-bremerhaven.de

Environmental companies

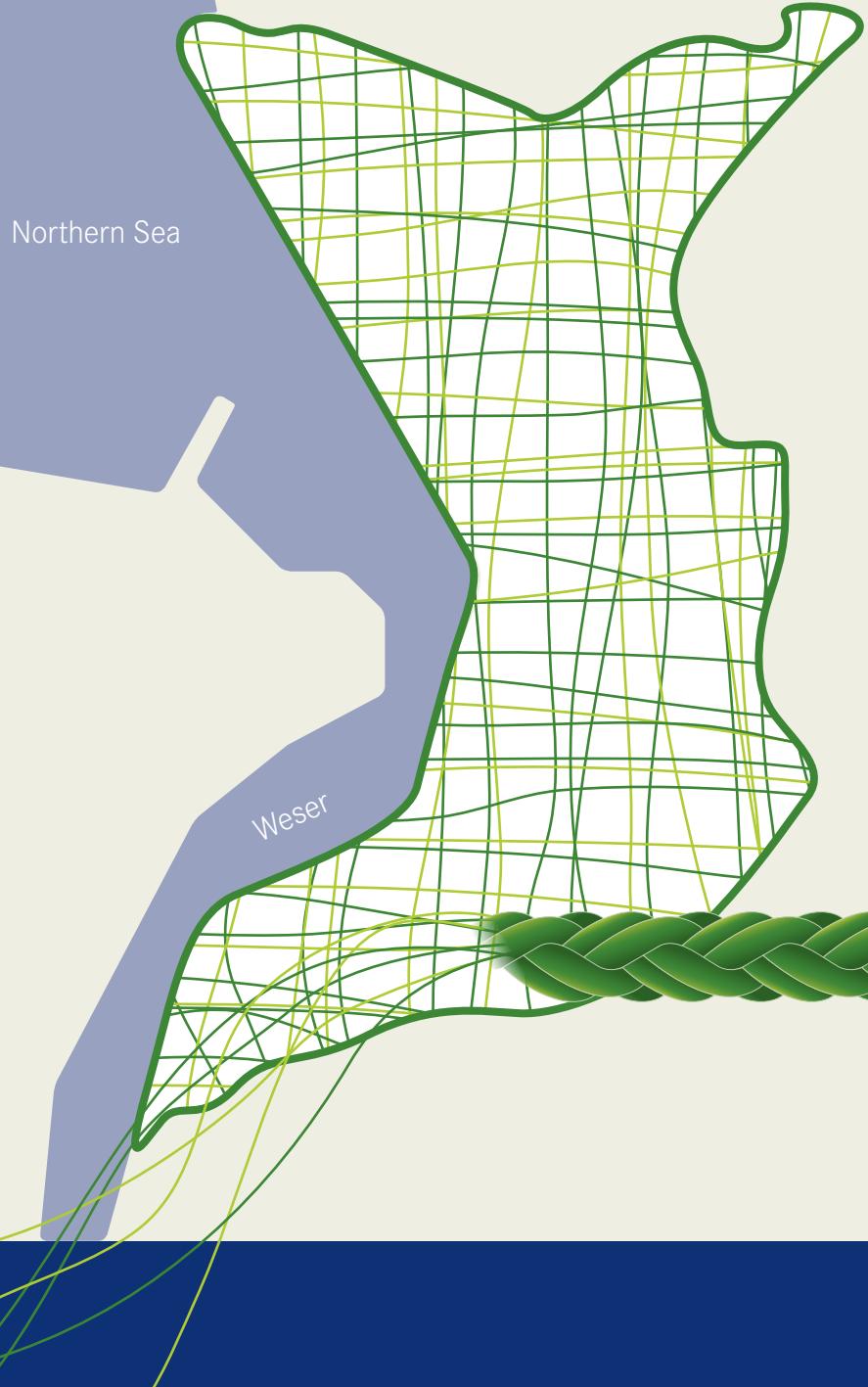
Under the auspices of the "Umwelt Unternehmen" (Environmental Companies) office, a total of more than 170 companies in Bremen and Bremerhaven are dedicated to promoting and acting in accordance with environmental and climate protection principles that exceed the standards prescribed by the lawmakers. Thereby, they point the way toward implementing more environmentally-friendly businesses in an economically successful manner. "Umwelt Unternehmen" is a mutual activity of the Senator for Environmental Affairs, Construction and Transport of the Free Hanseatic City of Bremen and RKW Bremen GmbH.

www.umwelt-unternehmen.bremen.de

WAB e.V.

With its headquarters in Bremerhaven, the wind energy agency is the leading corporate network for wind power in the northwest region, and nationwide point of contact for the offshore wind power sector. With more than 350 companies, the association is the key contact point to numerous partners who would like to become involved here. Conferences, seminars, study trips and regulars' meetings organised by WAB offer numerous possibilities for exchanging views.

www.wab.net



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[pages 3 | 6 | 7 | 11 | 15 | 19 | 23 | 24 | 25 | 26-27 | 29 | 32 | 33 | 37 | 38](#)
Ingo Wagner

[pages 4-5 | 10 | 12-13 | 14 | 28 | 33 | 34-35 | 36](#)

BIS

[pages 8-9](#)

MSC Gate Bremerhaven

[page 14 \(right top\)](#)

Deutsche See Fischmanufaktur

[pages 16-17](#)

Hero Lang Industry + Aerial Photographs

[page 18](#)

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[pages 20-21](#)

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[page 22](#)

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[page 25 \(right top\)](#)

Staab Architekten

[pages 30-31](#)

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