PORT ESBJERG
SUSTAINABILITY STRATEGY
Environment, Climate and Occupational Health and Safety
PORT ESBJERG - SUSTAINABILITY STRATEGY
Environment, Climate and Occupational Health and Safety
CONTENTS

INTRODUCTION 5

INSPIRATION: THE UN SUSTAINABLE DEVELOPMENT GOALS 6

PORT ESBJERG - SUSTAINABILITY STRATEGY 8

SUSTAINABLE OPERATIONS AND MANAGEMENT 10
AMBITIONS 11
CASES 12
SELECTED INITIATIVES 15

SETTING THE FRAMEWORK FOR SUSTAINABLE COMMERCIAL GROWTH 16
AMBITIONS 17
CASES 18
SELECTED INITIATIVES 20

SUSTAINABLE INFRASTRUCTURE 22
AMBITIONS 23
CASES 24
SELECTED INITIATIVES 27
SELECTED FACTS ABOUT PORT ESBJERG*

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area Covered</td>
<td>4,500,000 m²</td>
</tr>
<tr>
<td>Million Tonnes of Goods Handled</td>
<td>4.4</td>
</tr>
<tr>
<td>Port Calls</td>
<td>5,974</td>
</tr>
<tr>
<td>Offshore Wind Capacity Shipped From Esbjerg</td>
<td>1,210 MW</td>
</tr>
<tr>
<td>Profit</td>
<td>9.56 million EUR</td>
</tr>
<tr>
<td>Revenue</td>
<td>30.83 million EUR</td>
</tr>
</tbody>
</table>

*Amounts taken from Port Esbjerg’s 2018 Annual Report
Sustainability and the UN’s 17 Sustainable Development Goals are a strategic priority for Port Esbjerg. Across our four core business areas (circular economy, sustainable energy, intermodal transport, oil and gas), we aim to support our customers in their extensive efforts to promote sustainable developments, and we will concentrate on areas where our contribution as a large international infrastructure provider in and out of Esbjerg will matter the most.

To that end, our new sustainability strategy will focus on efficient and sustainable port operations, transport of goods, green transition, socio-economic contributions, occupational health and safety and on minimising the climate and environmental impact of our port-related operations. Building and maintaining close partnerships forms an integral part of our approach in all these areas.

The Port Esbjerg is uniquely positioned in Danish and European infrastructure, particularly in terms of the transition to green energy and the reduction of greenhouse gas emissions. We play an important role in a necessary future strengthening of maritime transport and the interaction between various modes of transport, as we can contribute to the installation of sustainable energy and help solve the congestion crisis on the roads of Europe by promoting efficient and sustainable transport of goods.

In addition, we will continue to develop our infrastructure and range of services, while sharing our insight and experience as the world’s largest originating port for wind power, ensuring that we contribute as much as possible to the green transition in Denmark as well as in Europe and further afield. Working with our customers, business partners, owners and other stakeholders, we will strive to capture the potential of the North Sea as the green power plant of Europe, making it the hub where wind energy is planned, readied and expertly shipped to the rest of the world.

We are also concerned with creating the best possible framework for the hundreds of businesses and thousands of jobs at the port, aiming to retain and increase the socio-economic benefits to Esbjerg, our region and the rest of Denmark.

We intend to combine our position as a world-class infrastructure provider with being a good neighbour, and we will make every effort to eliminate or minimise the impact of our port-related activities on nature and the environment and to take all necessary steps to ensure occupational health and safety at the Port Esbjerg.

Our overall ambition is to make the Port Esbjerg an international benchmark for sustainability and an example of how a city and its port can operate as an integral unit.

Since it was built in 1868, the Port Esbjerg has supported the local community and contributed to the development of the country and the global transition to sustainable energy by providing strong, reliable and modern infrastructure.

Sustainability is a key priority across our range of activities. Our ambition is to be one of the world’s leading ports, also in terms of sustainability. An important aspect of these efforts is the United Nations’ 17 Sustainable Development Goals, which have provided the world with a common language for sustainability across sectors and industries – a language that we obviously both speak and understand at Port Esbjerg.

For example, we develop annual sustainability targets that we measure monthly to monitor our sustainability. We have selected seven of the United Nations’ 17 sustainability goals, defining them in a context of port operations.

With our sustainability strategy, we aim to emphasise our promise and our continuing commitment to contribute to the long-term, sustainable development of our core business.

The strategy defines our general approach to sustainability, which we update annually, ensuring that it reflects relevant goals, targets and activities.

We have a separate ambition to strengthen our communication on our sustainability initiatives. Our environmental report and occupational health and safety (OHS) report are key components of these efforts. We will also apply to the European Sea Ports Organisation to become PERS certified.

In the following pages, you can read more about our sustainability approach, our targets and ambitions as well as our specific initiatives.
INSPIRATION: THE UN SUSTAINABLE DEVELOPMENT GOALS

The United Nations’ 17 Sustainable Development Goals (SDG) have provided a common language for sustainability across sectors and industries. The goals are to be achieved by 2030, and this is the first time that private enterprise has been invited to take part. This is a positive step.

At Port Esbjerg, our operations and approach are fundamentally international, and several of the SDGs are relevant to us and our operations. For example, climate change has a strong impact on our port’s operations, and our day-to-day operations impact many of the SDGs. However, the main driving force is our ability to contribute to achieving the SDGs through our operations.

In other words, we fully support the achievement of the SDGs. In fact, we have based our strategy on them, meaning that we have analysed our current and planned initiatives in order to identify which specific SDGs are most relevant to Port Esbjerg.

SDG #17 plays a particular role, as partnership is a means of achieving the other goals. It is by building partnerships that we can really make a difference.

It is important to emphasise that although we are focusing specifically on the seven SDGs shown on page 7, we support all seventeen. We will regularly assess if we need to add new initiatives outside our prioritised goals and whether to review current priorities. For example, we make a point of sourcing wood for our piers from sustainable forestry operations, thereby contributing to SDG #15 Life on Land, even though we have not defined it as a strategic focus area for Port Esbjerg.
WE CONCENTRATE OUR EFFORTS ON THE FOLLOWING SDGs:

7 AFFORDABLE AND CLEAN ENERGY
8 DECENT WORK AND ECONOMIC GROWTH
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION
14 LIFE BELOW WATER
17 PARTNERSHIPS FOR THE GOALS
PORT ESBJERG
- SUSTAINABILITY STRATEGY

Reflecting the goals of our overall vision, our strategy is focused on three core areas:

**SUSTAINABLE OPERATIONS AND MANAGEMENT**

We want to lead by example and set the standard for sustainable operations and management.

We intend to set high standards to protect our environment and climate and to promote occupational health and safety, because we believe sustainability is a prerequisite for long-term growth. This involves eco-friendly planting at harbour areas which demands minimum maintenance, ensures interaction with nature and requires minimum use of herbicides.

We intend to build our competencies and train our employees to work safely in order to reduce the risk of occupational injuries by developing a culture of safe conduct.

We aim to promote equality among our employees and to contribute to society by providing internships and job trials in collaboration with the Local Authority of Esbjerg.

Digitalisation is part of our active toolbox, and we will regularly review our environmental impact and consistently take steps to reduce it.

**SETTING THE FRAMEWORK FOR SUSTAINABLE COMMERCIAL GROWTH**

The relationship that we have built with our neighbouring businesses at the Port Esbjerg is based on inspiration, collaboration, partnership and mutual engagement. We wish to engage with our customers on sustainability.

We believe we have a responsibility to take a holistic view and lead by example. We have accumulated knowledge and experience about sustainable solutions and we make it available to our customers in the hope that we will inspire them to take action, because we accomplish more together.

We will actively consult our Advisory Board with a view to making sustainable conduct part of our decision-making procedures, and we will apply a principle of equality, ensuring that we apply laws, rules, regulations and practices in the most optimal way for our owners and our customers. In doing so, we will adhere to our tender policies.

**SUSTAINABLE INFRASTRUCTURE**

The Port Esbjerg is a link in a global transport value chain, and as a general rule, sea transport has a much lower climate footprint than road and air transport. The port also forms part of production value chains, for example in relation to the operation of the oil and gas fields in the North Sea and offshore wind farms. Placing manufacturing activities in close proximity to a port can help reduce the environmental impact.

Thanks to technological innovations, new solutions are rapidly evolving in the transport sector, and it is our ambition to facilitate and support the transition of the port value chain to capture the potential of sustainable sea transport.

**VISION**

We want to lead by example and be a source of inspiration to others in order to promote a sustainable transition of the maritime sector.
SUSTAINABLE OPERATIONS AND MANAGEMENT
Port Esbjerg is in charge of the operations and maintenance of more than 4,500,000 m\(^2\) of quay space along some 14 kilometres of quays. Our direct energy consumption is for street lighting and for heating our own buildings, but we also supply power to our customers’ operations. In addition, we operate cranes and various vehicles and equipment.

Our ambition for operations and maintenance is to:

**WORK CONTINUALLY ON REDUCING OUR CARBON FOOTPRINT**

We want to minimise our environmental impact. We want to recycle as much as possible and avoid using landfill sites and incineration plants, for example by ensuring optimal waste sorting and recycling.

Reducing our carbon footprint is a constant priority at Port Esbjerg. Already now, small vessels get their power from the Horns Rev 2 wind farm, and we are converting our rolling stock to run on electric power or as hybrids where technically possible.

**PROMOTE HEALTH AND SAFETY AND AN INCLUSIVE WORKING ENVIRONMENT**

A strong health and safety environment is our overriding top priority at Port Esbjerg. We achieve that by ensuring that everyone knows and follows our health and safety procedures. We strive to promote an inclusive labour market, in part by providing work experience opportunities as well as apprentice and traineeships.

We also aim to promote safe conduct in the workplace and will investigate all incidents that could potentially result in serious personal injury or damage to the environment.

**SUPPORT SUSTAINABLE INFRASTRUCTURE AND DEVELOPMENT**

We aim to develop the infrastructure at the Port Esbjerg in a sustainable manner across the entire value chain. We also want to support economic developments, and we make sure that small and mid-sized enterprises are given the opportunity to tender for contracts at the port.

**SYMBIOTIC RELATIONSHIP**

We are aware of the port’s influence on the city of Esbjerg and intend to measure and assess the port’s environmental impact on the city.

We also want to contribute to the welfare and wellbeing of people in the city by sponsoring various events for the benefit of the residents of Esbjerg.
SUSTAINABLE EXPANSION

Port Esbjerg has already expanded the harbour but plans to make additional expansion which must be carried out in a sustainable manner.

To this end, it has been decided that most of the materials used to expand the harbour must be sourced from sediment dredged from the approach to the harbour.
PROJECT CLEAN HARBOUR

Project Clean Harbour is run by the Danish Coastal Authority. It sets out a plan for cleaning out the harbour basins at Port Esbjerg. The project involves cleaning out sediment/bottom paints from the harbour basins in order to contribute to a cleaner marine environment.

Port Esbjerg and the Danish Coastal Authority cooperate closely on Project Clean Harbour. Port Esbjerg is in charge of the project logistics, making sure that basins are clear of vessels and other activities so the basins can be dredged.

The dredged sediment is carefully removed to ensure that all substances are handled correctly.

The sediment contains heavy metals from bottom paints that were previously used by the shipbuilding industry. The clean-up operation will result in clean port basins and a clean sea floor for the benefit of the maritime environment and users of the port.

The project is slated for completion in 2025, and by that time the port basins will be so clean that sediment dredged from the port may be disposed of at sea.
Port Esbjerg plays an active role in the youth counselling project Headspace, helping young people in challenging situations by offering them employment at the port.

The young people become part of a work environment at the port which makes demands on them in various ways, helping them to become members of a working community. In this way, Port Esbjerg helps young people gain a foothold in the labour market.

Headspace gives these young people something to get out of bed for. They work as part of a team and help to keep clean the green areas around the harbour. The young people mow grass, sweep, water flowers, and they make up a large proportion of the team keeping the harbour area clean during the summer months. Every young individual is assigned to a permanent staff member who helps them in their daily work. After they finish their project assignments, the young people are offered apprenticeships where possible.
Port Esbjerg is currently developing a concept for sustainable waste recycling. The project aims to treat the small amounts of waste that ships generate while between ports. When they call at the Port Esbjerg, ships can sort and dispose of their small amounts of waste. In other words, the project has both informative and behaviour-modifying aspects, because ship crews are required to familiarise themselves with the concept, know where the bins are located and learn to use them.

Port Esbjerg is currently developing the concept, which will also include a digital feature that will enable users to register the waste deposited and be issued a receipt.
SUSTAINABLE OPERATIONS AND MANAGEMENT

SELECTED INITIATIVES

PAST PROJECTS

Since 2016, we have sourced all our electric power as certified green power from the Horns Rev 2 wind farm.

We are converting to electric vehicles, which already make up 40% of our fleet. Our goal is for the fleet to be 100% electric.

At Port Esbjerg’s own areas, we have minimised power consumption by replacing conventional bulbs with LED equivalents, and by lowering the voltage in certain areas, we have reduced our power consumption by 32%.

For a number of years, we have been a partner to the Headspace youth counselling project which offers help to socially disadvantaged young people.

We reuse gravel collected by our street-sweeping machines on the large open areas at the port, and we have reduced our consumption of road salt by using a lower dosage for our winter services.

FUTURE PROJECTS

We intend to work closely with the Danish Coastal Authority on dredging contaminated sediment from the port basins. Cleaning up sediment and bottom paints will contribute to a cleaner marine environment.

We plan to initiate a transition to onshore power where practicably possible.

We intend to conduct noise measurements and actively implement noise-reducing initiatives.

We will ensure that we contribute to our local community by providing sponsorships and raising awareness of the port’s effect on and contributions to our city and local community.
SETTING THE FRAMEWORK FOR SUSTAINABLE COMMERCIAL GROWTH
The more than 200 businesses based at the Port Esbjerg employ close to 10,000 people. Port Esbjerg plays a key role as the originating port for components to the wind industry and as an installation port for offshore wind in the North Sea. The Port Esbjerg is also a key base port for North Sea oil and gas activities and for intermodal traffic. This means that our core business is to make available the infrastructure which our customers require to perform their core business.

Our ambition is to support sustainable commercial development:

**REDUCING OUR ENVIRONMENTAL FOOTPRINT**

We will help our customers to minimise their environmental footprints. As our customers are the source of most of the energy consumed and waste produced at the port, we will work with them to develop sustainable solutions, sharing our experience from environmental and climate-friendly solutions developed in our own operations.

**PROMOTING A STRONG HEALTH AND SAFETY ENVIRONMENT**

We will work with our customers to develop a strong health and safety environment for all activities at the port, and ensure that everyone knows and follows the health and safety procedures. We will do that by facilitating a health and safety network for all companies at the port and by regularly running campaigns in collaboration with the companies at the port.

**REDUCING RESOURCE CONSUMPTION**

We want to create a future-proof and sustainable infrastructure at Port Esbjerg. We will work to find new ways to help our users reduce their resource consumption, for example by regulating traffic and testing onshore power. We will also take part in R&D projects which can provide us with new knowledge about and insights into important and relevant topics on continuing the sustainable development of the port.
Port Esbjerg is a dynamic port with a host of activities. The high levels of activity, the many different users, the heavy cargo and the, at times, excessive speeds make for a dangerous cocktail. A total of 66 accidents were recorded at the port over a five-year period, and Port Esbjerg is doing something about it.

In the autumn of 2018, Port Esbjerg ran a traffic campaign intended to help change driver behaviour in the port area. The campaign offered recommendations for safe conduct, urging people to show more respect for the surroundings at the port and greater alertness in traffic and suggesting better traffic signage around the area.

As part of the campaign, Port Esbjerg distributed information to all companies at the port and put up signs in various locations.

The campaign also ran on social media, in the local press and on a new campaign website.

Port Esbjerg received a lot of support for the campaign from the companies at the port. Hopes are that the recommendations will be discussed at the individual companies and written into company safety policies if they are not there already. The traffic campaign also inspired Port Esbjerg’s customers to implement the campaign messages in their operations at other ports.

It is our intention to run a safety campaign once a year.
SUSTAINABLE EXPANSION OF THE PORT

The entire East Port at Port Esbjerg is built from reclaimed sand dredged from the port’s shipping channel. The Coastal Authority dredges sand from the channel, transports it to the harbour, and Port Esbjerg then uses it to expand the quay area. The project also involves reusing sand that is being moved anyway as part of other projects.

This contributes to reducing the environmental impact, because Port Esbjerg can use it instead of having to source sand from other dredging companies.

Port Esbjerg has built the entire East Port area using reclaimed sand and is also planning to use reclaimed sand for additional expansion of the port area.
PAST PROJECTS

We established intelligent signal controls/intelligent traffic lights in the port area that will require vehicles to brake less, thereby reducing fuel consumption and noise levels.

We conducted a traffic campaign for all users of the port area, focusing on increased traffic awareness and safety.

We established new multimodal transport terminals providing direct access to terminal areas and direct access from the terminal areas to the road network.

We support efficiency-enhancements and digitalisation through the development of the OnePortEsbjerg online database. Storing data in one place makes it more accessible for the people working at the port. It minimises paper consumption and facilitates collaboration and exchanges of data. The plan is to add more information to the database over time.

We support a sustainable expansion of Port Esbjerg by reusing sand dredged from the port’s shipping channel and have already built the entire East Port area using reclaimed sand.

We use drones for inspections, minimising the use of our own service vessel.
FUTURE PROJECTS

We plan to run a campaign targeted at port users, recommending the use of LED bulbs with the aim of reducing the overall energy consumption at Port Esbjerg.

We will play an active role together with our customers in development projects involving onshore power that may help to reduce vessel pollution.

We will utilise traffic data to reduce the environmental impact of transport and increase traffic safety.

We plan to set up waste separation bins for easy sorting, making recycling easier and benefitting the environment.

We intend to participate in projects that will contribute to making Port Esbjerg carbon neutral going forward and minimising the noise impact on the city.
SUSTAINABLE INFRASTRUCTURE
The infrastructure at Port Esbjerg provides important interfaces to the rest of the world. Esbjerg is a key port for operations in oil/gas and wind in the North Sea, and it is one of Denmark’s largest industrial ports. The fact that Esbjerg is a port to the world means we must be mindful of our environmental footprint. We recognise that responsibility.

At the same time, it is important to us that the city of Esbjerg and our neighbours perceive us as accommodative and an active contributor in terms of ensuring sustainable development of the city and the local region.

Our ambitions for sustainable infrastructure are to:

**REDUCE OUR ENVIRONMENTAL IMPACT ON THE OUTSIDE WORLD**

We will work to reduce the environmental footprint of Port Esbjerg. That is best achieved by engaging closely with the relevant authorities and interest organisations. Promoting sea transport as a sustainable transport solution is an important aspect of this work.

**IMPROVE INFRASTRUCTURE**

We work consistently to optimise our existing infrastructure, making sure that it is up to date and can support sustainable operations for port users. That is why the design of the East Port area facilitates the best traffic connection possible to the motorway system.

At the same time, it allowed a lot of heavy traffic to be redirected from certain parts of the port close to the city.

We have also built a multimodal transport terminal for goods carried by rail. It supports a cohesive and sustainable transport solution by allowing goods to be transported by rail rather than road.

**ENGAGE IN DIALOGUE AND BE OPEN ABOUT POSSIBILITIES**

Port Esbjerg wishes to engage in open dialogue about the overall development of transport infrastructure, whether on a local, national or international scale. We also wish to engage closely with the people of Esbjerg about providing access to the port area. Our ambition is to always be accommodative if our surrounding community wants to enquire about our business or to draw on our expertise.
PAST PROJECTS

We are members of a large number of international collaboration networks, including ESPO, Ecoports, Greenet, PIANC and WIND EUROPE that are designed for sharing experiences about efficient and sustainable port operations.

We prepared an environmental report and an OHS report with the support of Greenet, an organisation working to promote the sustainable development and protection of the environment.

FUTURE PROJECTS

We will work to promote national and international engagement on the sustainable development of the transport infrastructure of the future.

We will seek to establish national and international innovation and development projects focused on sustainability.