

The EMAS Register is a guarantee of the Port of Barcelona's environmental solvency and a guide to excellence for all the operators that make up the port logistics chain.

We are pleased to present this summary of our eighth Environmental Statement, the most up-to-date report on the environmental management associated with the activities and functions of the Barcelona Port Authority.

This is an extract where we invite you to learn about the essential and most significant aspects, which you can expand upon over the pages of the full version of this publication.

In this latest publication, we present, in detail and at length, the major projects and improvements we are working on in order to ensure optimal environmental monitoring, better use of resources and energy efficiency.

We share a unique environment that we must conserve, and we will focus our best efforts and innovations on this in the coming years.

July, 2023



BARCELONA PORT AUTHORITY
www.portdebarcelona.cat

Path to Sustainability

PRESENTATION OF THE ENVIRONMENTAL STATEMENT

EUROPEAN EMAS REGULATION

2023



The Port of Barcelona is firmly committed to sustainability and environmental protection, both from a local and global perspective.

SURFACE AREA
1,042
ha

DOCKS
AND BERTHS
23.05
km

STAFF
563
DIRECT
EMPLOYEES

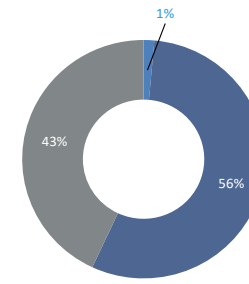
TRAFFIC
THOUSANDS OF TONNES
64
x1000 t



Main contents of the 2023 Environmental Statement



17,765 m³



■ Control posts
■ Buildings
■ Irrigation

Water consumption

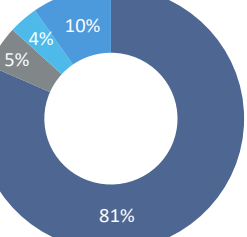
The APB's water supply comes from the companies Aigües de Barcelona and Aigües del Prat.

The main uses of water are for irrigation of green areas and gardening, as well as for sanitary use in buildings and facilities.

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8,729 MWh



100%
renewable

■ Electricity
■ Gasoil
■ Gasoline
■ Natural Gas

Energy consumption

The APB's main energy consumption corresponds to the electricity supply of buildings and the lighting of roads and facilities, followed by the consumption of diesel, natural gas and petrol.

Since January 2017, 100% of the electricity supplied to APB and its subsidiaries (WTC, CILSA, Port Vell) is of renewable origin.

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361 t CO₂eq

41
Electric
vehicles

Climate Strategy

The Port of Barcelona has made commitments to reduce its greenhouse gas emissions at three levels:

Emissions from port activity
Emissions from the Port Authority
Emissions from concessions and Port Community operators

The goal is to reduce greenhouse gas emissions by 50% by 2030 and achieve climate neutrality by 2050.

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ZAL (Logistics Activities Zone)
Immission Averages

1.40 µg SO₂/m³
26.25 µg PM₁₀/m³
24.4 µg NO₂/m³

Emissions and air quality

Since 2016, the Barcelona Port Authority has been implementing the Plan for Improving Air Quality in its surroundings by taking various actions to reduce emissions of polluting gases and suspended particles.

To monitor air quality in the port environment, the APB employs a network of meteorological stations and a network of pollution monitoring stations.

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Highlighted actions

Pag. 53
COMMITMENTS OF THE PORT OF BARCELONA AS A WHOLE

Energy transition.
World Ports Climate Action Plan.
Electrical connection of vessels.

Page 54
COMMITMENTS AT THE LEVEL OF THE PORT AUTHORITY

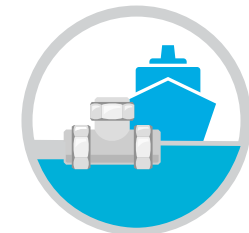
Construction and facilities.
Street lighting.
Own fleet.
Adherence to the OCCC's Voluntary Agreements.
Electricity with renewable generation certification.

Page 56
COMMITMENTS AT THE LEVEL OF THE PORT COMMUNITY

Extension of the electric vehicle charging points plan.
Promotion of OCCC Voluntary Agreements.
Promotion of clean fuels in terminal machinery.
Equipment and resources of port service providers.
Promotion of energy efficiency and renewable energy generation.
Eco-calculator.
Short sea shipping promotion.

According to preliminary calculations by the APB, activities in the port area emit approximately 485,000 tonnes of CO₂ annually. Of this, 300,000 tonnes are from ships (including anchoring, manoeuvring, and during their stay in port); about 135,000 tonnes are from electricity consumption of port facilities, and the remaining 20,000 tonnes are from vehicles, terminal machinery, and industry/work.

Emissions from **port activity** are estimated to account for **7.6% of the city's air pollution** for NO_x compounds and **1.5% for PM₁₀ particles**.



Collection of waste from the water surface

Port water quality

The port waters receive discharges from nearby urban and industrial areas, as well as from activities within the port itself.

The APB (Spanish acronym for Barcelona Port Authority) provides a **service for the collection and removal of floating waste** from the water surface by means of specialised vessels, every day of the year and during daylight hours.

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1,091 t
of waste

99.8 %
Non-hazardous
waste

Waste generation

The APB is responsible for the removal and management of the different types of waste generated in the port's own buildings, facilities and communal areas, as well as waste from road cleaning.

The APB implements the selective collection of recoverable waste fractions from containers located outdoors for paper, glass and packaging, and from bins and containers located inside APB buildings for paper, packaging, toner and used batteries.

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Physical-chemical analysis

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The Port of Barcelona applies the Surveillance Plan for Coastal Water Bodies of Catalonia, approved by the Catalan Water Agency, to the Port's internal and external waters, as well as monitoring benthic communities, which shows an **improvement in the quality of the water and sediments in the Port of Barcelona in recent years**.

One of the main improvement actions was the constructing the port's new sewerage network, with a total length of more than 30 km of sewers and 16 pumping stations. Another positive development has been the progressive reduction in discharges from Barcelona's sanitation system during rainfall events.

MARPOL

RECEPTION OF WASTE FROM SHIPS

In accordance with the 1973 International Convention for the Prevention of Marine Pollution from Ships (MARPOL Convention 1973/78), ports must have adequate facilities for the reception of waste from ships by means of a port service.

The increase in port activity and ship traffic leads to an increase in such waste.

66,382 t Marpol I
Bilge and engine oily fluids
118,455 t Marpol V
Solid waste

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102,179 t
Dredging

Environmental monitoring of port works

All works undertaken by the Barcelona Port Authority are subject to environmental monitoring by independent technical support, contracted directly by the APB.

Recycled materials are used in these works, either in breakwaters, paving or filling materials.

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Surface area

Unsealed / unpaved:
2,337,219 m²
Sealed surface area:
8,084,042 m²

Ecology and biodiversity

The port occupies a land area of 1,042 ha, and is located close to the Llobregat Delta Nature Reserve. This means that precautions must be taken to ensure that activity and works at the port interfere as little as possible with the ecosystems and the populations of birds and other species.

One of the actions carried out for the preservation of animal species is the provision of a new habitat for the cormorant population.

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2030 Agenda

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Puertos del Estado



Soil Contamination

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Environmental noise monitoring

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Emergency plans

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Stakeholders

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Environmental compliance

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