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

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











Path to **Sustainability**

PRESENTATION OF THE ENVIRONMENTAL STATEMENT

EUROPEAN EMAS REGULATION

Port de Barcelona

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















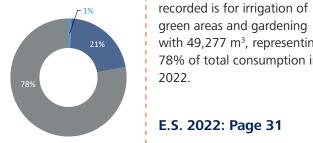
BARCELONA PORT AUTHORITY www.portdebarcelona.cat



Main contents of the 2022 Environmental Statement



63,258 m³

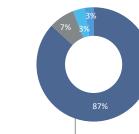


Control posts Buildings ■ Irrigation





7,821 MWh



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consumption

The APB's water supply

comes from the companies

Aigües de Barcelona and

The main consumption

green areas and gardening

with 49,277 m³, representing

78% of total consumption in









100% Electricity Gasoline









Electric

40

Strategy

Climate

The Port of Barcelona has made commitments to reduce its three levels:

Emissions from port activity

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

The goal is to reduce CO, emissions by 50% by 2030 and 100% by 2040 compared to 2017 emissions.



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consumption corresponds to the electricity supply of buildings and the lighting of roads and facilities, followed **ZAL** (Logistics by the consumption of diesel, **Activities Zone**) natural gas and petrol. **Averages**

> 1.14 µg SO₃/ m³ 26.25 µg PM₁₀/ m³ 24.4 μg NO₃/ m³

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Collection of waste from the water surface

Port water

The port waters receive discharges from nearby urban and industrial areas and from the activities located in the port itself.

daylight hours.

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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.



1.104 t

96 %

Non-hazardous





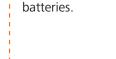
The APB is responsible for the removal and management of the different types of waste generated in the port's own buildings, facilities and communal areas, as well as waste from road cleaning.

The APB implements the

APB buildings for paper,

packaging, toner and used

selective collection of recoverable waste fractions from containers located outdoors for paper, glass and packaging, and from bins and containers located inside



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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.

> 70,652 t Marpol I Bilge and engine oily fluids

101,525 t Marpol V

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subject to environmental monitoring carried out 120,974 t by independent technical Dredaina support, contracted directly

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

by the APB.

of port works

All works undertaken by the

Barcelona Port Authority are



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Environmental monitoring





2030 Agenda

SUSTAINABLE Puertos del Estado

E.S. 2022: page 28-29

Soil Contamination

3 GOOD HEALTH 14 LIFE 15 ON LAND 17 PARTMERSHIPS FOR THE GOALS **-**₩ | 🚟 | 🛳

E.S. 2022: page 58













































2022.

Energy

consumption

The APB's main energy

Since January 2017, 100%

of the electricity supplied

to APB and its subsidiaries

of renewable origin form

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(WTC, CILSA, Port Vell) was

January 2017 until the end of

Highlighted actions

Energy transition.

World Ports Climate Action Plan.

Electrical connection of vessels.

Construction and facilities.

Street lighting.

Own fleet.

COMMITMENTS AT THE LEVEL OF THE PORT AUTHORITY

COMMITMENTS AT THE LEVEL OF THE PORT COMMUNITY

Promotion of energy efficiency and renewable energy generation

Adherence to the OCCC's Voluntary Agreements.

Electricity with renewable generation certification.

Extension of the electric vehicle charging points plan

Equipment and resources of port service providers.

Promotion of OCCC Voluntary Agreements. Promotion of clean fuels in terminal machinery.

Short sea shipping promotion.

greenhouse gas emissions at COMMITMENTS OF THE PORT OF BARCELONA AS A WHOLE

812 t CO_{2eq}

Emissions and air quality

Since 2016, the Barcelona Port Authority has been implementing the Plan for Improving Air Quality in its surroundings through various actions aimed at reducing emissions of polluting gases

To monitor air quality in

the port environment, the APB employs a network of meteorological stations and a network of pollution monitoring stations.

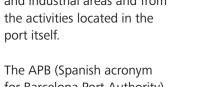
and suspended particles.

According to preliminary calculations made by the APB, the totality of the activity carried out in the port area emits some 315,000 tonnes of CO₂ per year, of which 215,000 tonnes come from ships (including from anchoring, manoeuvring and during their stay in port); around 78,000 tonnes of CO₂ correspond to the total electricity consumption of the facilities within the port area, and the remaining 20,000 tonnes of CO₂ are from emissions from vehicles, both light and heavy, terminal machinery and industry.

Emissions from port activity are estimated to account for 7.6% of the city's air pollution for NO compounds and 1.5% for PM_{10 particles}







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













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



Nature Reserve. This means

taken to ensure that activity

interfere as little as possible

the populations of birds and

with the ecosystems and

One of the actions carried

out for the preservation of

of a new habitat for the

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cormorant population.

animal species is the provision

that precautions must be

and works at the port

other species.

























