

# Registro europeo de emisiones industriales.

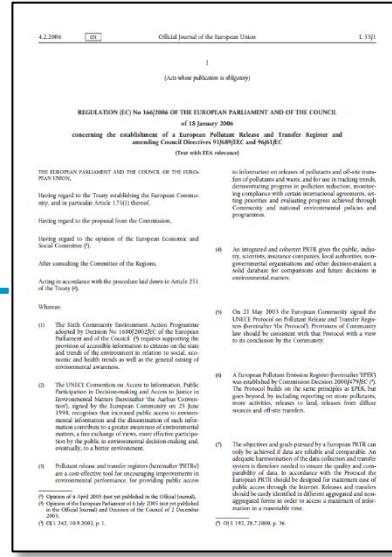
## Nuevo portal web y retos

# Contenido

- El nuevo portal online de emisiones industriales
- Nuevos requisitos de reporte de volumen de producción
- Aumento progresivo de la exigencia de QA/QC
- Herramientas alternativas
- Aplicación de datos E-PRTR: Externalidades



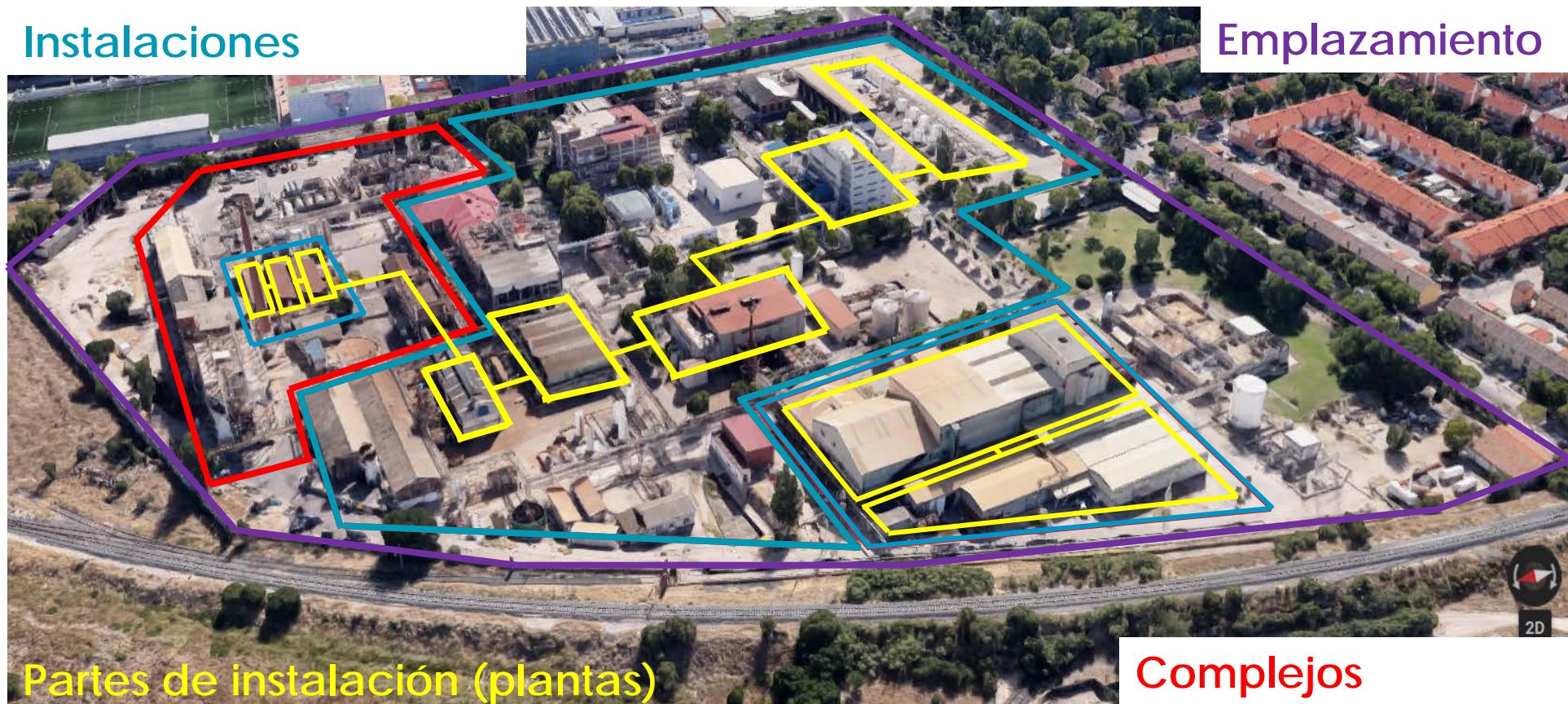
# The EU Registry - Concepto



EU Registry	INSPIRE	E-PRTR	IED
ProductionSite	Correlation	Correlation	No definition provided
ProductionFacility	Correlation	Correlation	No definition provided
ProductionInstallation	Correlation	Correlation	Correlation
ProductionInstallationPart	Correlation	No definition provided	Correlation



# The EU Registry - Concepto



# Industrial emissions portal – Página de inicio



European Industrial Emissions Portal

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European Commission

European Environment Agency

## Welcome to the Industrial emissions portal

The website presents information on the largest industrial complexes in Europe, releases and transfers of regulated substances to environmental media, waste transfers as well as more detailed data on energy input and emissions for large combustion plants in EU Member States, Iceland, Liechtenstein, Norway, Serbia, Switzerland and the United Kingdom.

If you are new to this topic, please make sure that you [read our guide](#) on what to find in the portal. You can explore the data online, or [download](#) datasets and work with them in a software of your own preference.



### ANALYSE

Find the biggest polluters and compare data across countries



### DOWNLOAD

Work with raw datasheets on your own choice of software



### ABOUT

New to this topic?  
Understand the Industry portal

## Learn more about pollutants

Pollutants are different in nature, and each of them may have different harmful potential in relation to the medium in which is released into. Select one pollutant to learn more about it.

Carbon dioxide (CO<sub>2</sub>)

Carbon monoxide (CO)

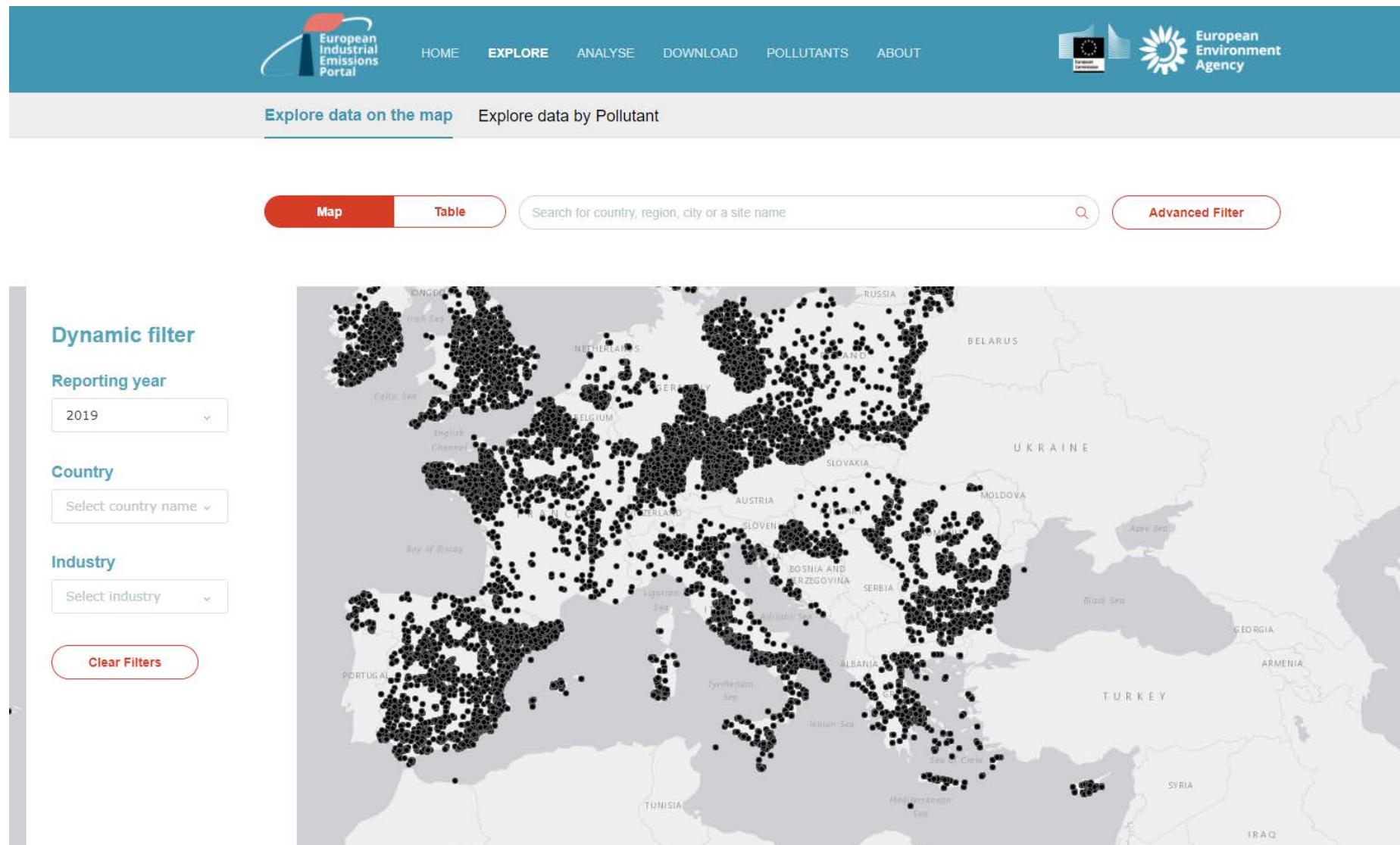
Methane (CH<sub>4</sub>)

Total nitrogen

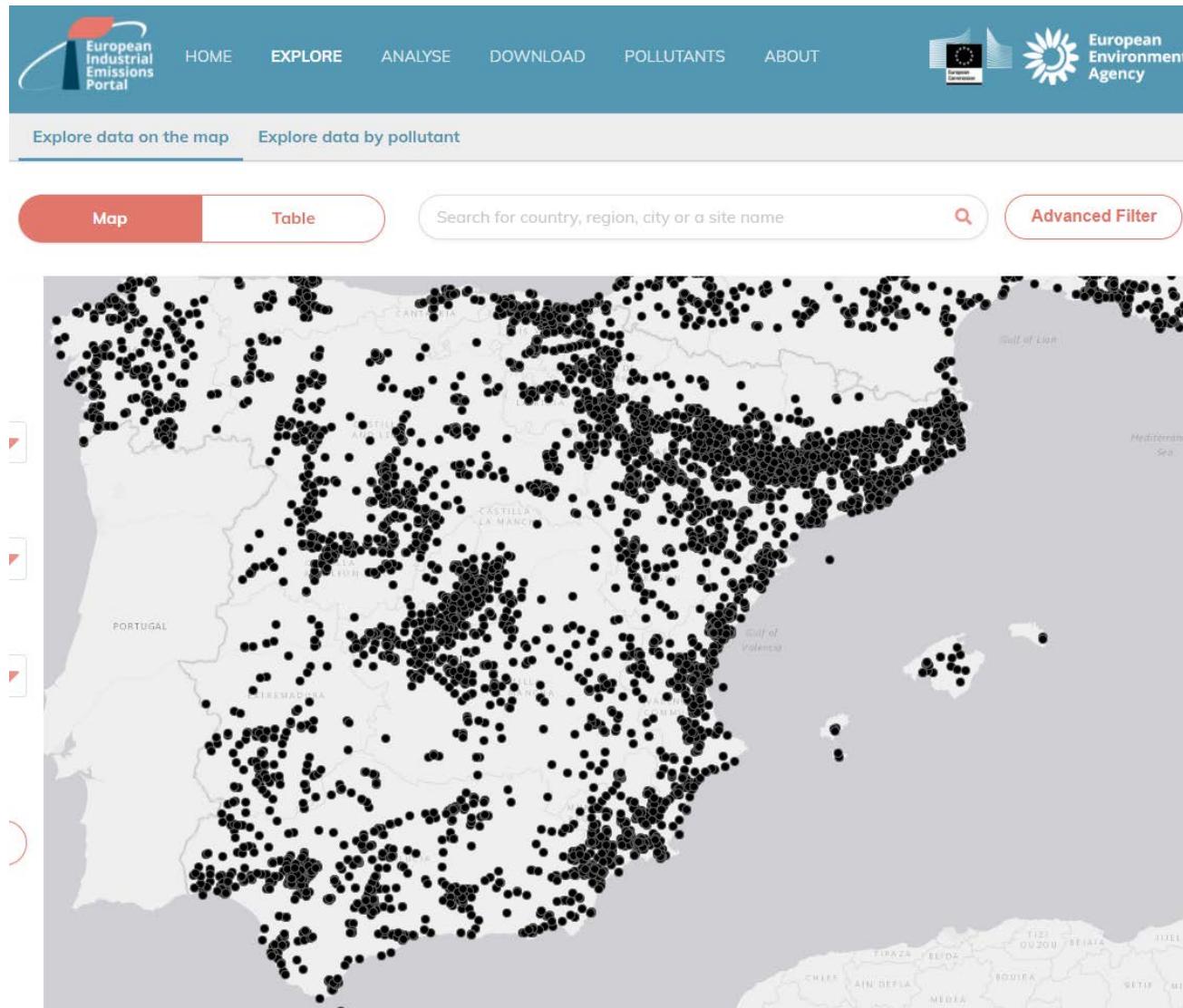
European Environment Agency



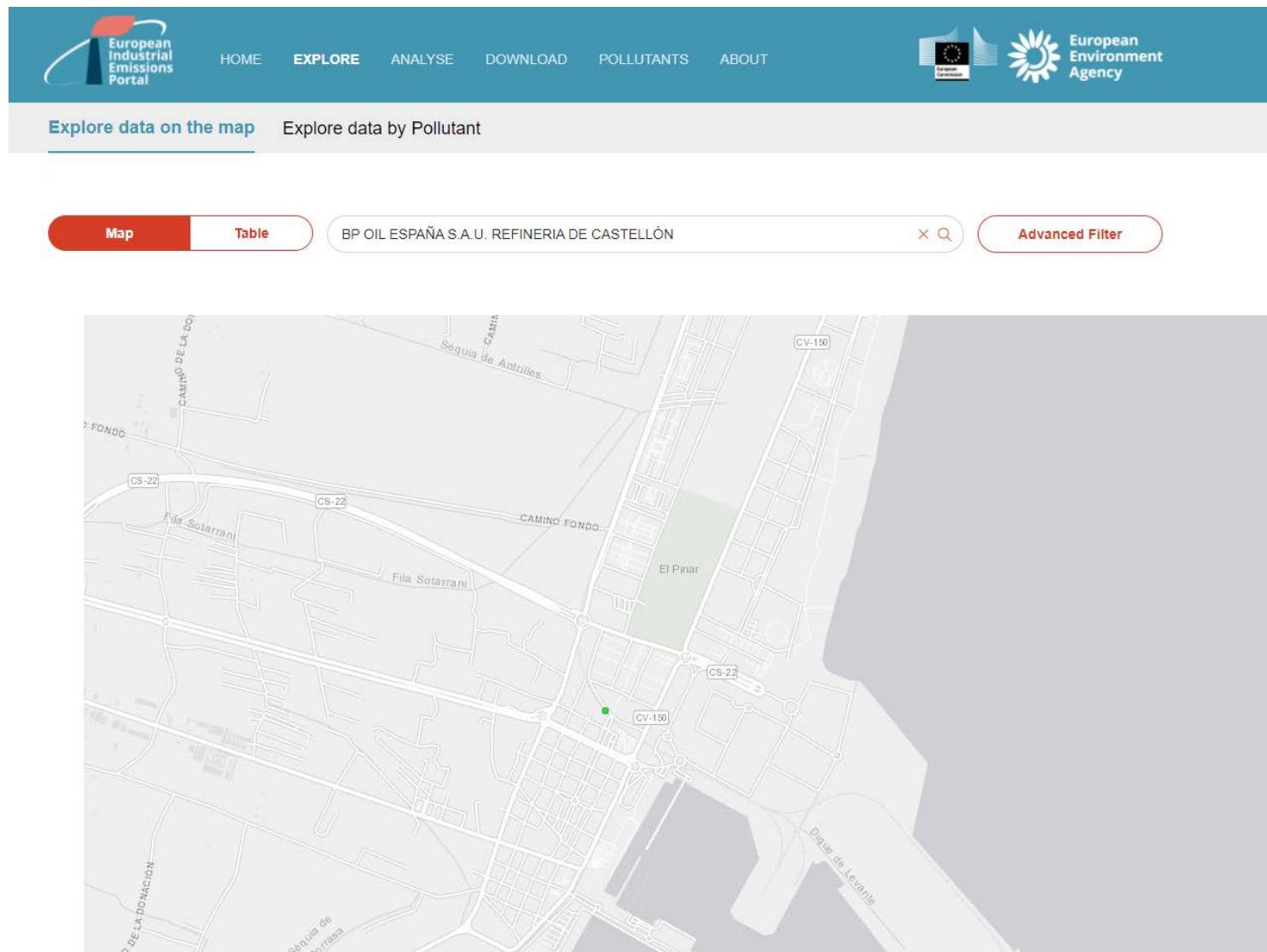
# Industrial emissions portal – Mapa



# Industrial emissions portal – Mapa



# Industrial emissions portal – Mapa



# Industrial emissions portal – Mapa



**BP OIL ESPAÑA S.A.U. REFINERIA DE CASTELLÓN** X

**Site contents**

- 1 Facility
- 1 Installation
- 3 Large combustion plants

**Pollutant emissions**

Chromium and compounds (as Cr), Zinc and compounds (as Zn), Trichloromethane, Nitrogen oxides (NOX), Hydrogen cyanide (HCN), Non-methane volatile organic compounds (NMVOC), Fluorides (as total F), Sulphur oxides (SOX), Carbon dioxide (CO2), Arsenic and compounds (as As), Cadmium and compounds (as Cd), Chloro-alkanes, C10-C13, Nickel and compounds (as Ni), Phenols (as total C), Hydro-fluorocarbons (HFCS)

**Regulatory information**

Inspections in 2019: 1

[Site Details](#)



# Industrial emissions portal – Mapa

[Environmental information](#) [Regulatory information](#) [Site FAQs](#)

## BP OIL ESPAÑA S.A.U. REFINERIA DE CA...

- Environmental overview
- Regulatory overview
- 1. /
- 2. [ES.CAED/000704000.FACILITY](#)
  - 2.1. [ES.CAED/000704000.INSTALLATION](#)
    - 2.1.1. [ES.CAED/000704000.PART](#)
    - 2.1.2. [ES.CAED/000704001.PART](#)
    - 2.1.3. [ES.CAED/000704002.PART](#)

## BP OIL ESPAÑA S.A.U. REFINERIA DE CASTELLÓN

### Industrial activity

1(a) Mineral oil and gas refineries

### Facility address

POLIGONO INDUSTRIAL EL SERRALLO. APARTADO 238 S/N 12100 ES

### Competent Authority ①

Last updated: 26 Sep 2020

#### Organization Name

CONSELLERIA DE AGRICULTURA, DESARROLLO RURAL, EMERGENCIA CLIMÁTICA Y TRANSICIÓN ECOLÓGICA

#### Contact Person

CONSELLERIA DE AGRICULTURA, DESARROLLO RURAL, EMERGENCIA CLIMÁTICA Y TRANSICIÓN ECOLÓGICA

#### E-mail

e\_prtr\_cv@gva.es

### Pollutant releases

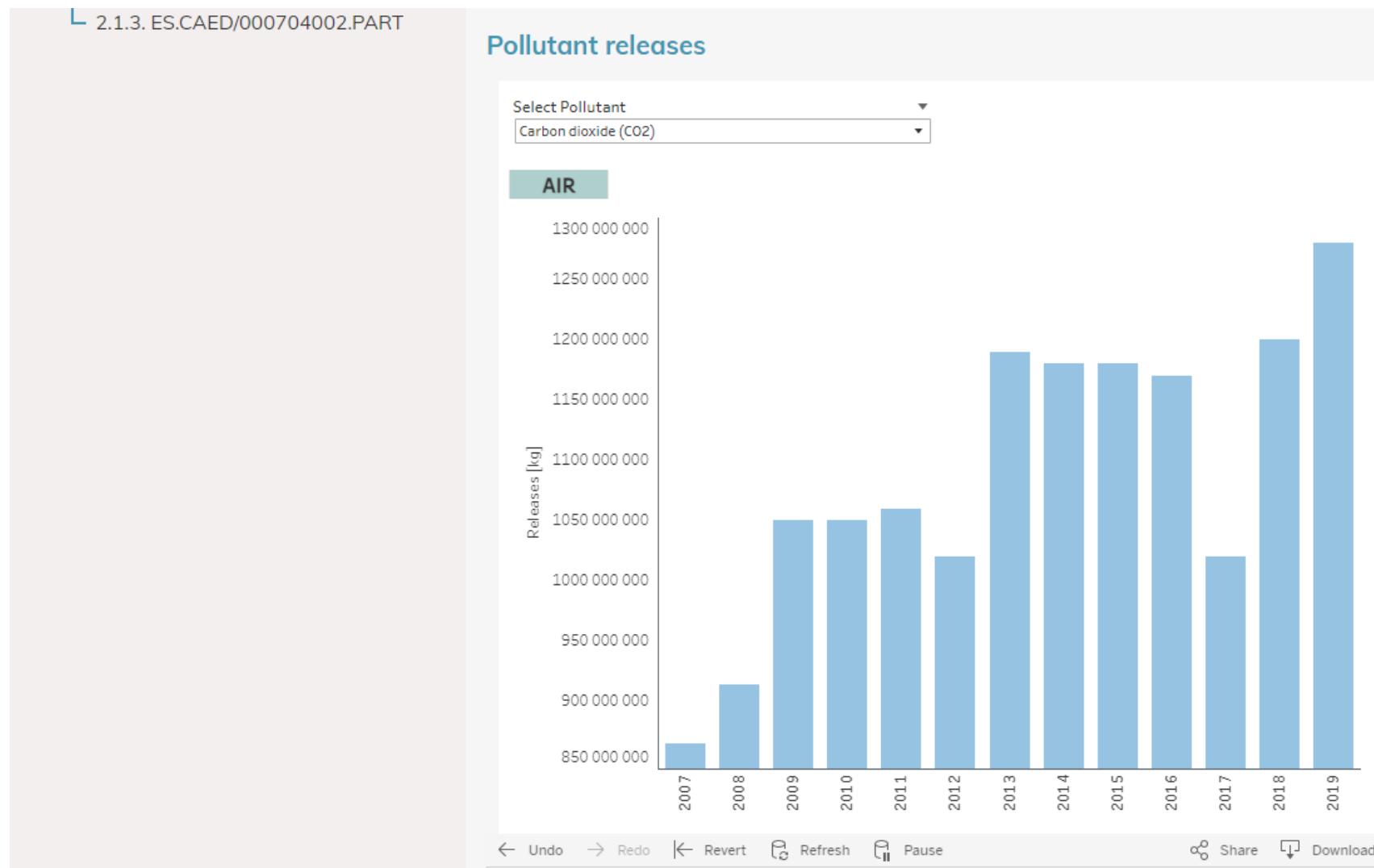
Select Pollutant

Carbon dioxide (CO2)

AIR



# Industrial emissions portal – Mapa



# Industrial emissions portal – Mapa



# Industrial emissions portal – Mapa

BP OIL ESPAÑA S.A.U. REFINERIA DE CA...

- Environmental overview
- Regulatory overview
- 1. /

2. ES.CAED/000704000.FACILITY

- 2.1. ES.CAED/000704000.INSTALLATI...
- 2.1.1. ES.CAED/000704000.PART
- 2.1.2. ES.CAED/000704001.PART
- 2.1.3. ES.CAED/000704002.PART

**About the entity** ⓘ

**Regulated activities**  
Refining of mineral oil and gas

**Status**  
functional

**seveso**  
-

**Permitting Authority** ⓘ

Installation	Operating since	Permit updated	Permitting authority	Permit available	Seveso	Status
1.1	-	18 Dec 2013	CONSELLERIA DE AGRICULTURA, MEDIO AMBIENTE, CAMBIO CLIMÁTICO Y DESARROLLO RURAL./ DIRECCIÓN GENERAL DE CAMBIO CLIMÁTICO Y CALIDAD AMBIENTAL	<a href="#">Permit link</a>	-	functional

**BAT conclusions** ⓘ

**1.1. ES.CAED/000704000.INSTALLATION**

**Refining of Mineral Oil and Gas**

<b>Status</b> valid	<b>Status modified</b> 2018
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# Industrial emissions portal – Mapa

BP OIL ESPAÑA S.A.U. REFINERIA DE CASTELLÓN

- Environmental overview
- Regulatory overview
- 1. ES.CAED/000704000.FACILITY
  - 1.1. ES.CAED/000704000.INSTALLATION
    - 1.1.1. ES.CAED/000704000.PART
    - 1.1.2. ES.CAED/000704001.PART
    - 1.1.3. ES.CAED/000704002.PART

**Ref. Castellón**

<b>Plant Type</b> LCP	<b>Total rated thermal input</b> 144
<b>Untreated municipal waste treated</b> no	<b>Specific conditions apply?</b> no
<b>Significant hazardous waste incinerated</b> no	<b>Nominal capacity</b> unspecified

**Pollutant releases**

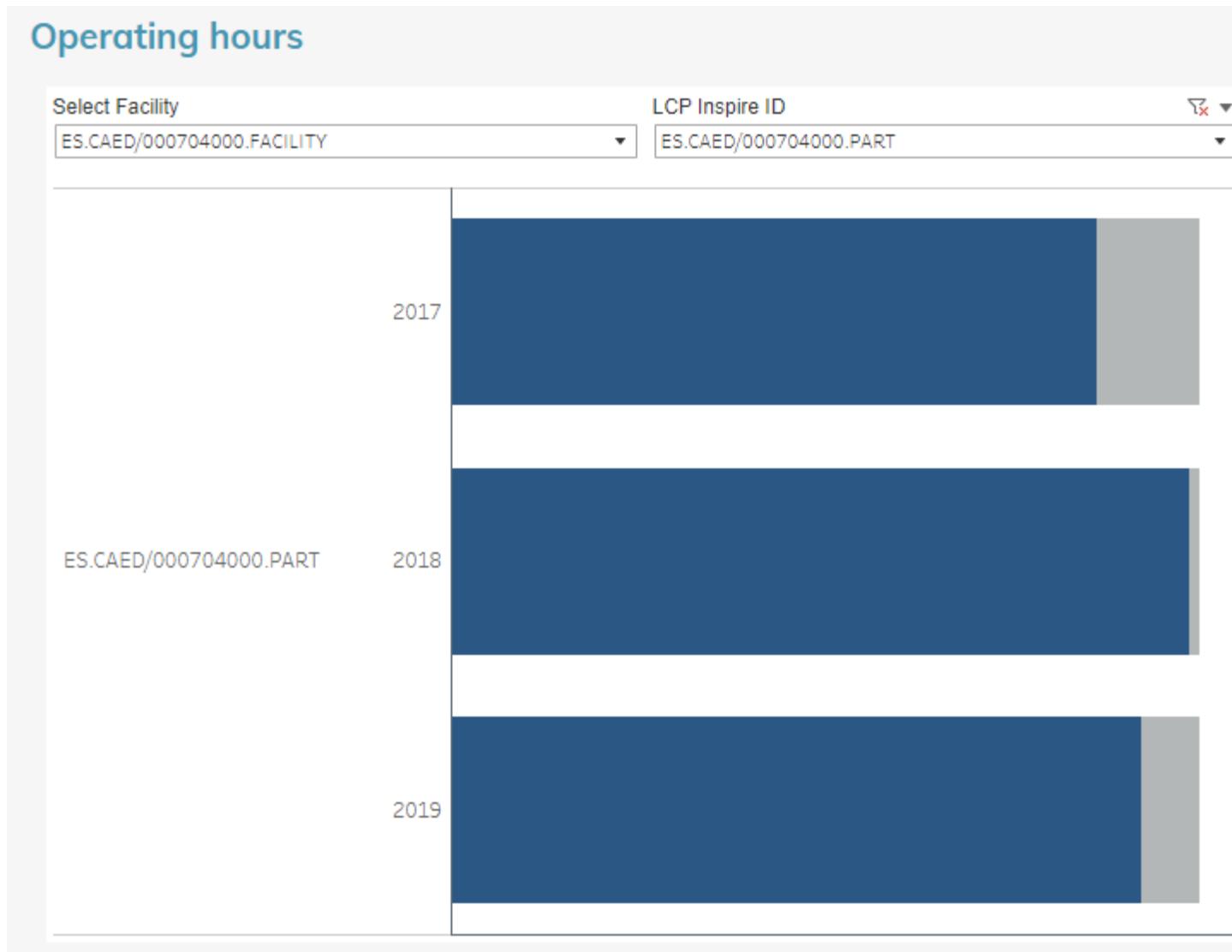
ES.CAED/000704000.PART

DUST  
NOX  
SO2

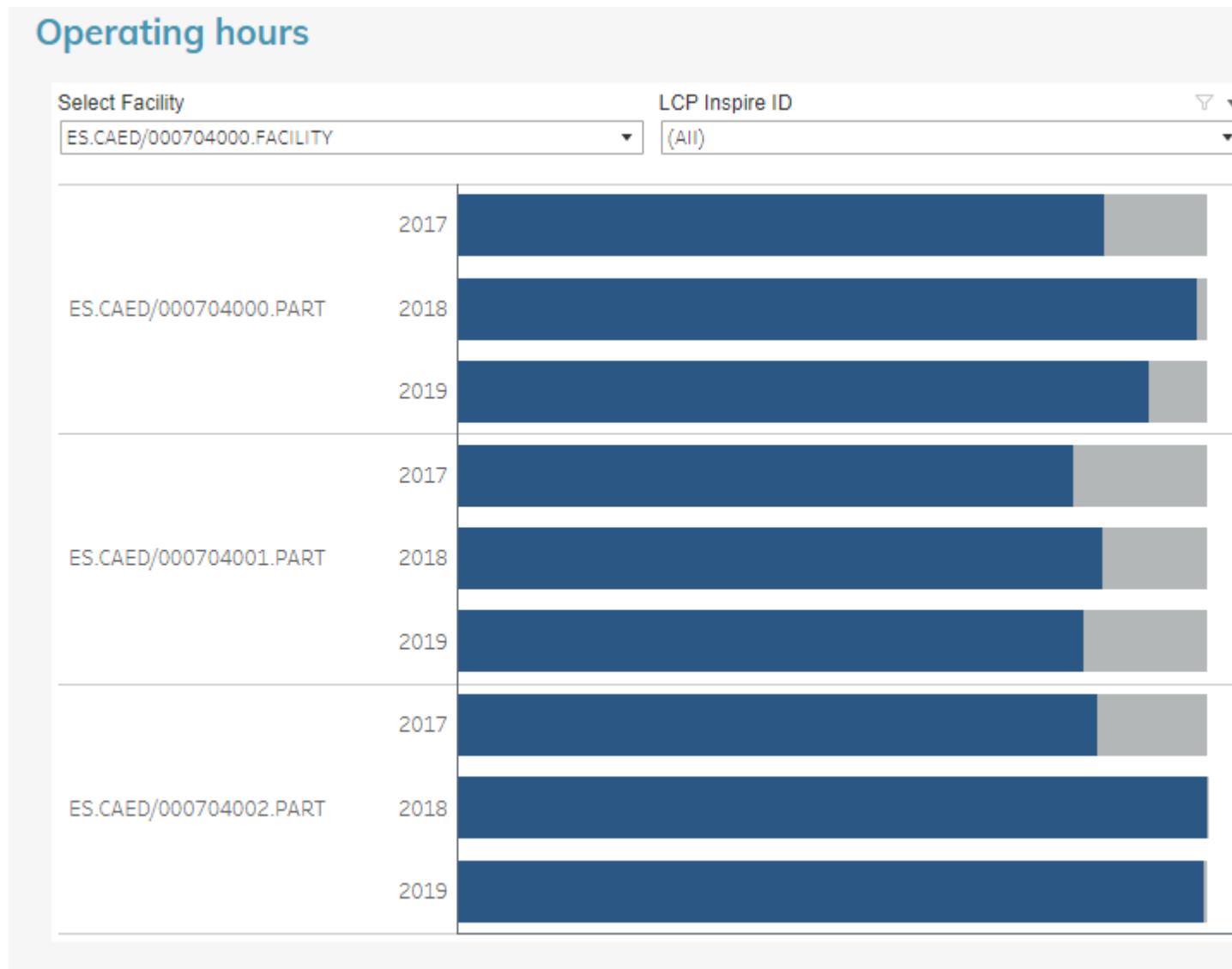
Year	Releases [tonnes]
2018	~270
2019	~250



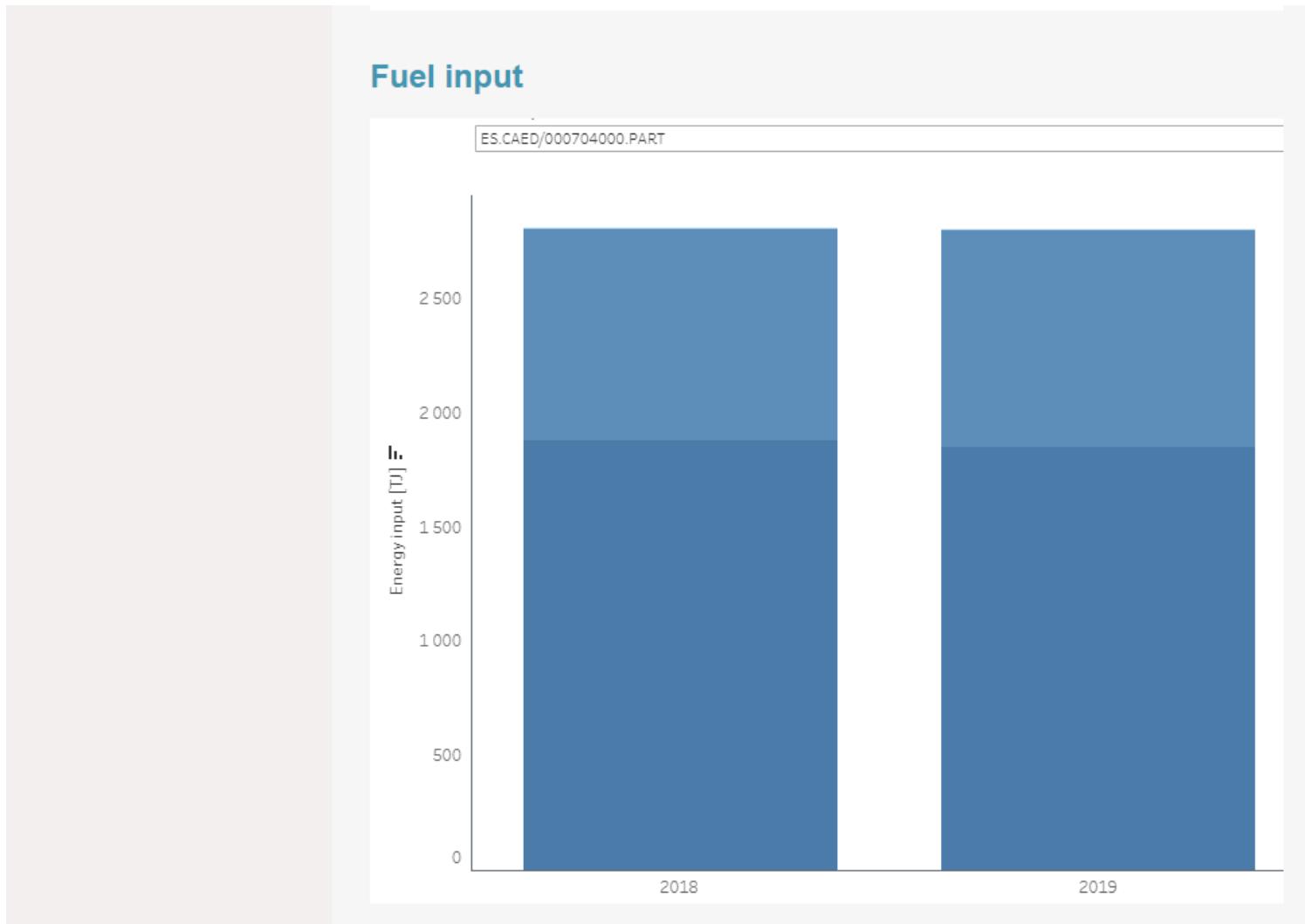
# Industrial emissions portal – Mapa



# Industrial emissions portal – Mapa



# Industrial emissions portal – Mapa

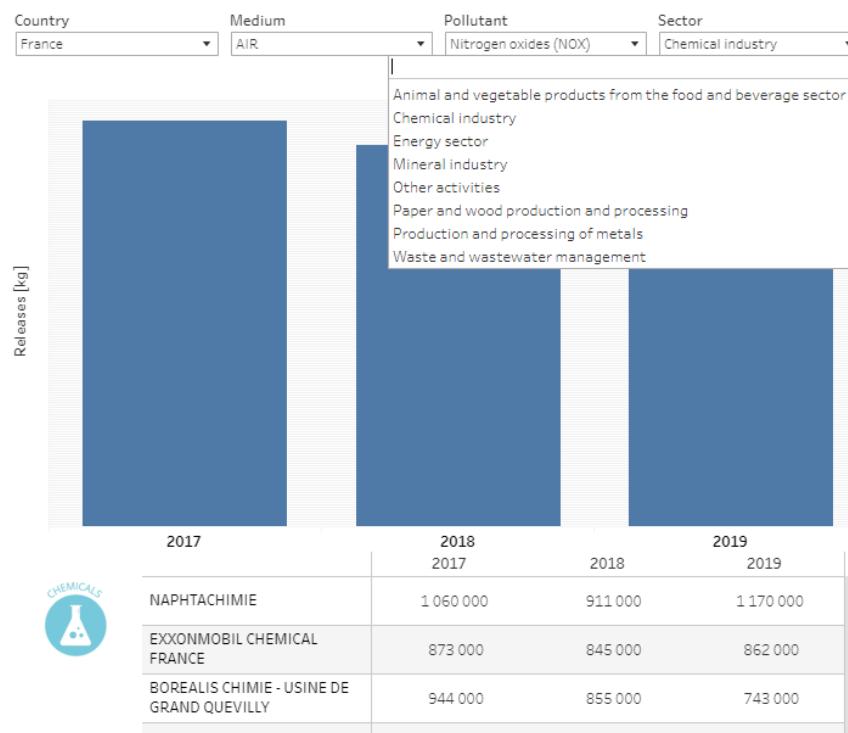


# Industrial emissions portal – Datos por contaminante

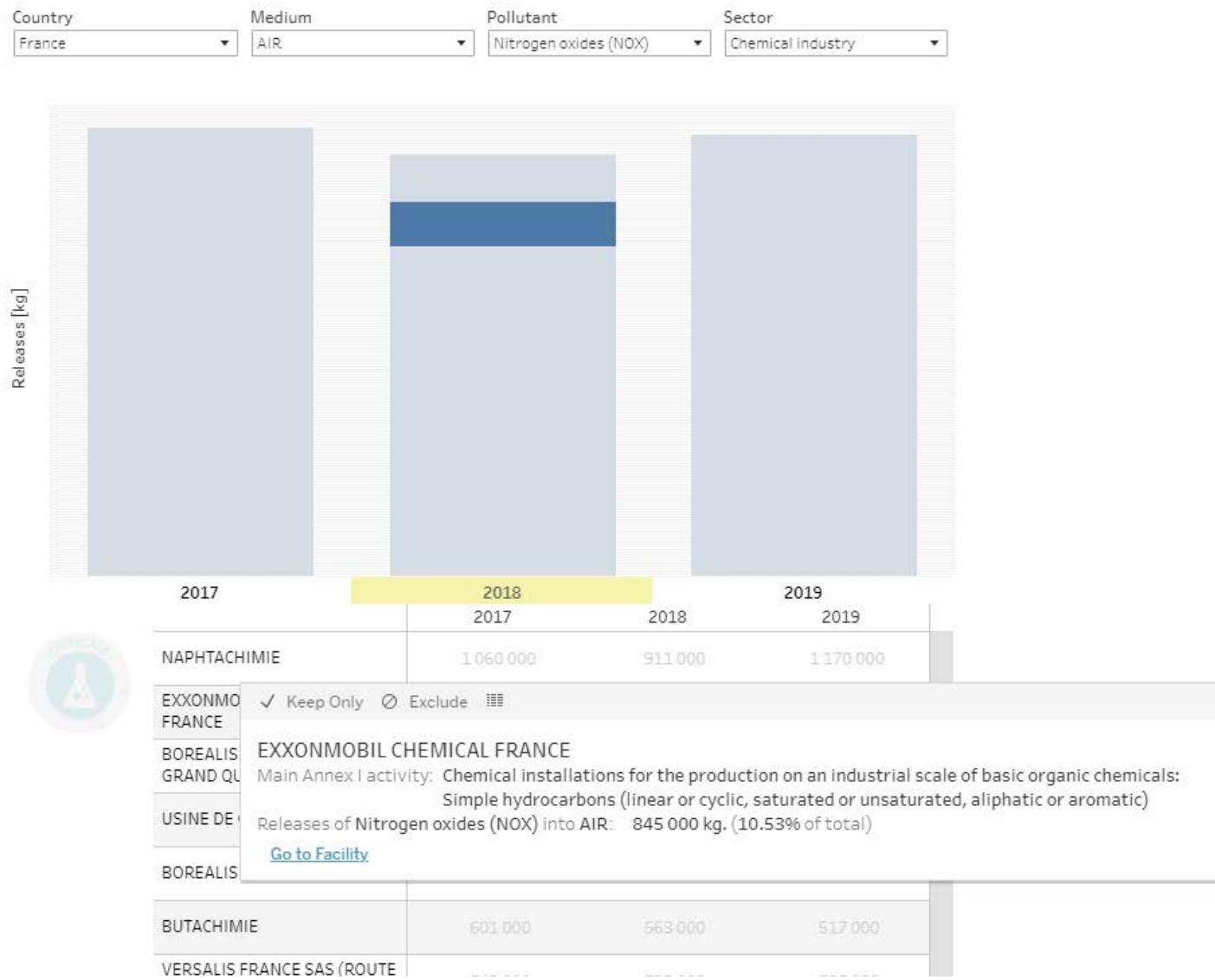
The screenshot shows the top navigation bar with links for HOME, EXPLORE (which is underlined in blue), ANALYSE, DOWNLOAD, POLLUTANTS, and ABOUT. It also features the European Commission and European Environment Agency logos. Below the navigation is a grey bar with two buttons: 'Explore data on the map' and 'Explore data by Pollutant' (which is also underlined in blue). The main content area is titled 'Most common pollutants'.

## Most common pollutants

This section provides a close-up view at country level on the most common released pollutants and the total releases at facility level. Hover over the bars to find out the contribution of each facility to the emissions of the selected pollutant in the country of your selection. When clicking on the emissions values in the table below the chart, you will find a link to the site where the facility is located (clicking this link opens a new window).



# Industrial emissions portal – Datos por contaminante





# Industrial emissions portal – Análisis

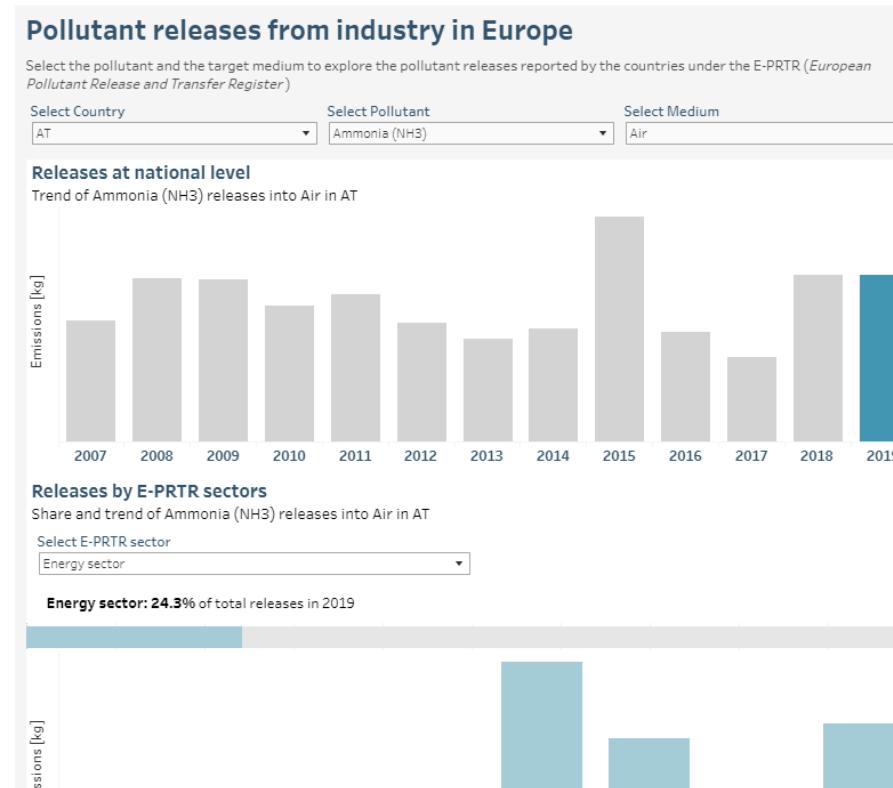
European Industrial Emissions Portal

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European Environment Agency

Pollutant and sector Pollutant trends LCP analysis Country comparison Summary table

## Pollutant releases by country and sector





# Industrial emissions portal – Análisis

## Information on Large Combustion Plants (LCPs)

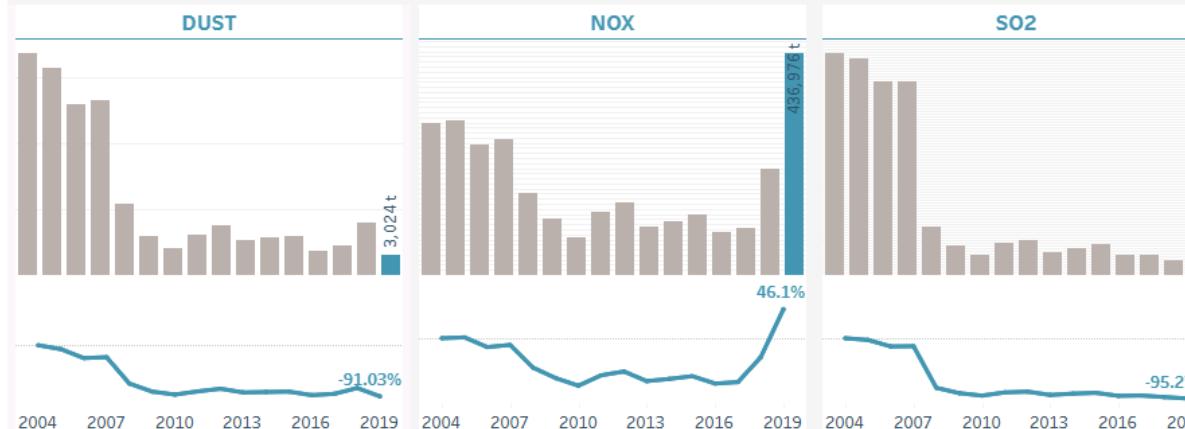
For reporting data from Large Combustion Plants, countries need to report emissions of Dust, NOx and SO2. Select the relevant Country to display the relevant information.

Select Country

Spain

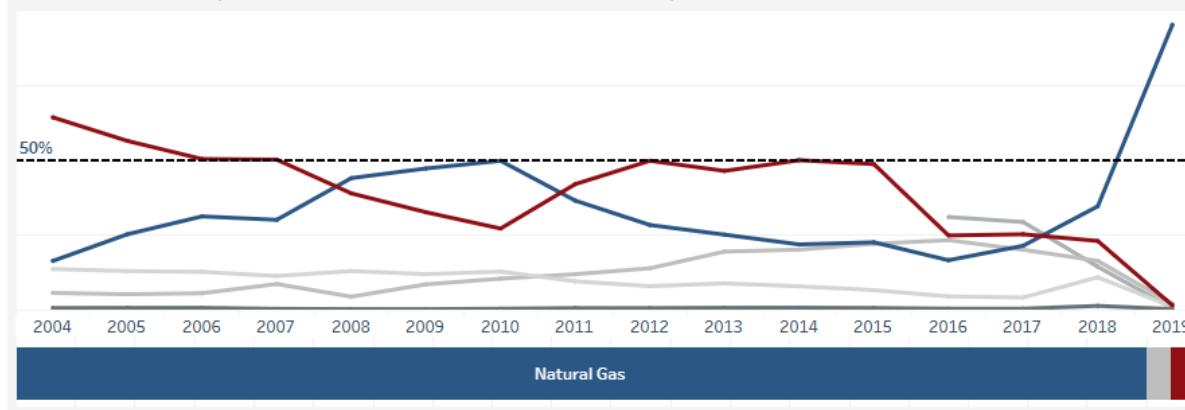
### Total emissions from LCPs in Spain

The bar chart shows total emissions from the three different pollutants. The latest reporting year is highlighted. The trend line highlights the emissions reduction achieved from 2004 until the latest year reported (2019 in most cases).



### Energy input in LCPs in Spain

The chart presents the evolution of fuel input share in LCPs in Spain through the years. Select a fuel from the bar (which represent the fuel share for the latest reporting year) at the bottom to highlight the relevant fuel trend.



# Industrial emissions portal – Descargas

industry.eea.europa.eu/download

## Download

This section provides the relevant datasets for download. It includes the database behind all the data presented in the website and a collection of other relevant databases which may be useful while analysing and studying the industry domain such as the EU emission inventories (both air pollutants and greenhouse gases), the EU-ETS dataset and the Energy Community database.

Below this, links to the relevant guidance documents have also been included, as well as the reports and dissemination documents of the work on diffuse emissions developed under E-PRTR.

### Download datasets

#### Industrial reporting dataset

This dataset contains the location and administrative data for the largest industrial complexes in Europe, releases and transfers of regulated substances to all media, waste transfers as well as more detailed data on energy input and emissions for large combustion plants

[DOWNLOAD](#)

#### Air pollutants emission inventory

Data compiled are annual national total and sectoral emissions of air pollutants and associated activity data reported by EEA member and cooperating countries under the LRTAP convention.

[DOWNLOAD](#)

#### Greenhouse gas emission inventory

Data on greenhouse gas emissions and removals, sent by countries to UNFCCC and the EU Greenhouse Gas Monitoring Mechanism (EU Member States)

[DOWNLOAD](#)

#### Energy Community database

This dataset contains the location and administrative data for Large Combustion Plants in the Energy Community (Energy Community Treaty 2006/500/EC) participating countries, as well as more detailed data on energy input and emissions to air.

[DOWNLOAD](#)

#### European Union Emission Trading System (EU-ETS)

The EU Emissions Trading System (ETS) is a central instrument of the EU's policy to fight climate change and achieve cost-efficient reductions of greenhouse gas emissions

[DOWNLOAD](#)

### Download guidance documents

European Environment Agency



# Industrial emissions portal – Contaminantes



## Pollutant index

This section provides a close-up picture to the various pollutants reported in the Portal, their description, main uses and information on the pollutant thresholds in Annex II of the E-PRTR Regulation (See our [About](#) section to find more information on what this Annex contains).

**Hint:** Select from the list of pollutants or start typing to see suggestions

### Nitrogen oxides (NOx/NO2) ▾

[General information](#) [Pollutant thresholds](#)

E-PRTR Pollutant No	18
IUPAC Name	Nitrogen dioxide
CAS Number	10102-44-0
Formula	NO <sub>2</sub>

#### Description

Nitrogen dioxide is a reddish-brown gas with a strong odour, although its colour can only be seen at high concentrations.

#### Main Uses

Nitrogen dioxide is used in various chemical processes as an oxidising agent, including the production of nitric acid.

#### Where do the releases originate?

At low concentrations, nitrogen-containing species deposited on plants can act as nutrients.

Nitrogen oxides may contribute to acid deposition and also to eutrophication. Of the chemical species that comprise the NOx air pollutant, it is NO<sub>2</sub> that is associated with adverse effects on health, as high concentrations cause inflammation of the airways. NOx also contributes to the formation of harmful particulate matter and ground level ozone in the atmosphere. Nitrogen dioxide can react with organic peroxy radicals (formed from the breakdown of volatile organic compounds (VOCs) in the air) to form PANs (peroxyacetyl nitrates), which can serve as a temporary reservoir for



# Industrial emissions portal – Sobre el portal



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## About the Industrial Emissions Portal

The **Industrial Emissions Portal** covers over 60,000 industrial sites from 65 economic activities across Europe [1]. These activities are within the following sectors:

- Energy
- Production and processing of metals
- Mineral industry
- Chemical industry
- Waste and waste water management
- Paper and wood production and processing
- Intensive livestock production and aquaculture
- Animal and vegetable products from the food and beverage sector, and
- Other activities

The Portal shows the sites' location and administrative data; as well as their releases and transfers of regulated substances to air, water, and land; and waste transfers. For large combustion plants (LCPs), there is more detailed data on energy input and emissions.

Data can be browsed in our map of sites, [here](#). Full datasets and guidance documents can be downloaded [here](#). Various data analysis tools and visualisations can be found [here](#). Finally, the Portal also includes a glossary.

The information contained in the Portal is reported annually and requested under the Industrial Emissions Directive ([IED](#)), via the EU Registry on Industrial Sites ([EU Registry](#)) and the European Pollutant Release and Transfer Register ([E-PRTR](#)). As of June 2021, this portal has replaced the E-PRTR website.

### IED

The IED (Directive [2010/75/EU](#)) aims at achieving a high level of protection of human health and the environment taken as a whole by reducing harmful industrial emissions across the EU, in particular through better application of Best Available Techniques (BAT).

Around 50,000 installations undertaking the industrial activities listed in Annex I of the IED are required to operate in accordance with a permit (granted by the authorities in the Member States).

This permit should contain conditions set in accordance with the principles and provisions of the IED. Visit the Commission's dedicated [website](#) for more details on the legislation as well as information and data on the IED implementation, transposition and evaluation.

European Environment Agency



# Industrial emissions portal – Usuarios

- Comisión Europea y Gobiernos nacionales.
- ONG.
- Sector privado (industria, consultoría).
- Periodistas.
- Público general.



# Nuevo requisito – Volumen de producción

- Opcional actualmente.
- Pasará a ser obligatorio una vez se han establecido unidades y parámetros.
- Proyecto para establecerlos: [Wood \(2020\)](#)
- Propuesta de decisión de ejecución (año de notificación 2023)
- EEA: Cambios a documentación, modelo de datos y esquema XML



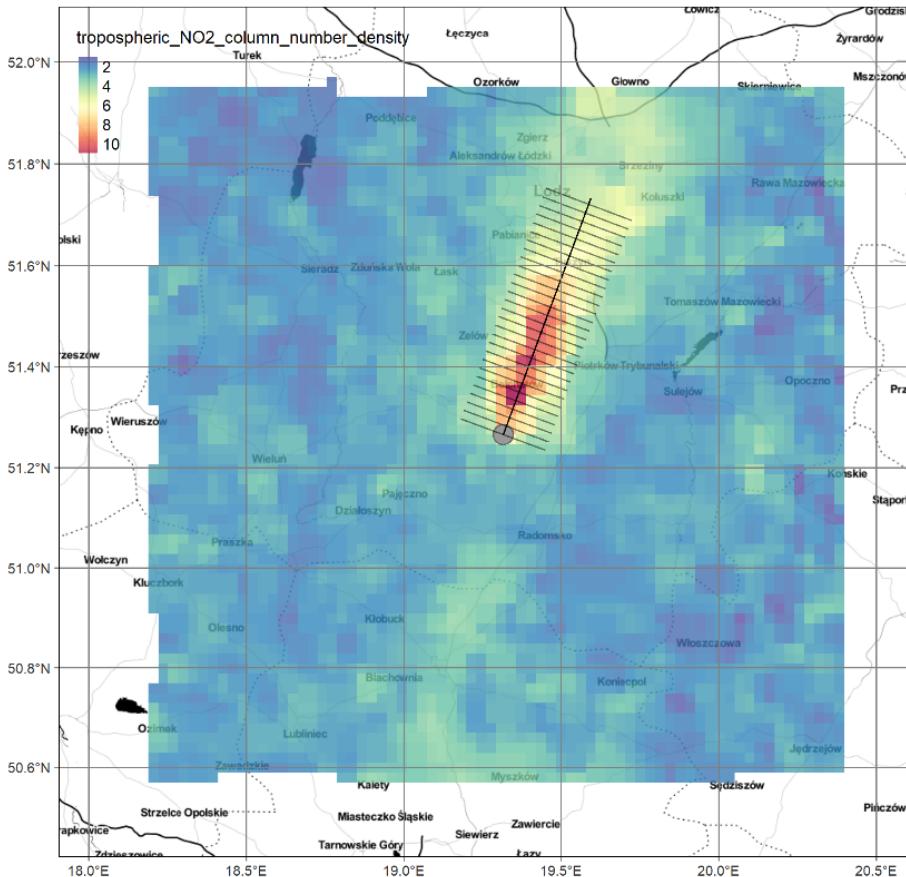
# Reto – Calidad de los datos. Verificaciones

- Se incrementará la exigencia progresivamente
- En 2021: Horas anuales, LCP, capacidad nominal (incineradores)
- Se dará cuenta a los Estados Miembros con suficiente tiempo
- Herramienta de apoyo a la entrega de datos: [Link](#)
- Proyecto en 2022 para priorizar avisos (“warning”)



## Reto – Calidad de los datos. Herramientas alternativas

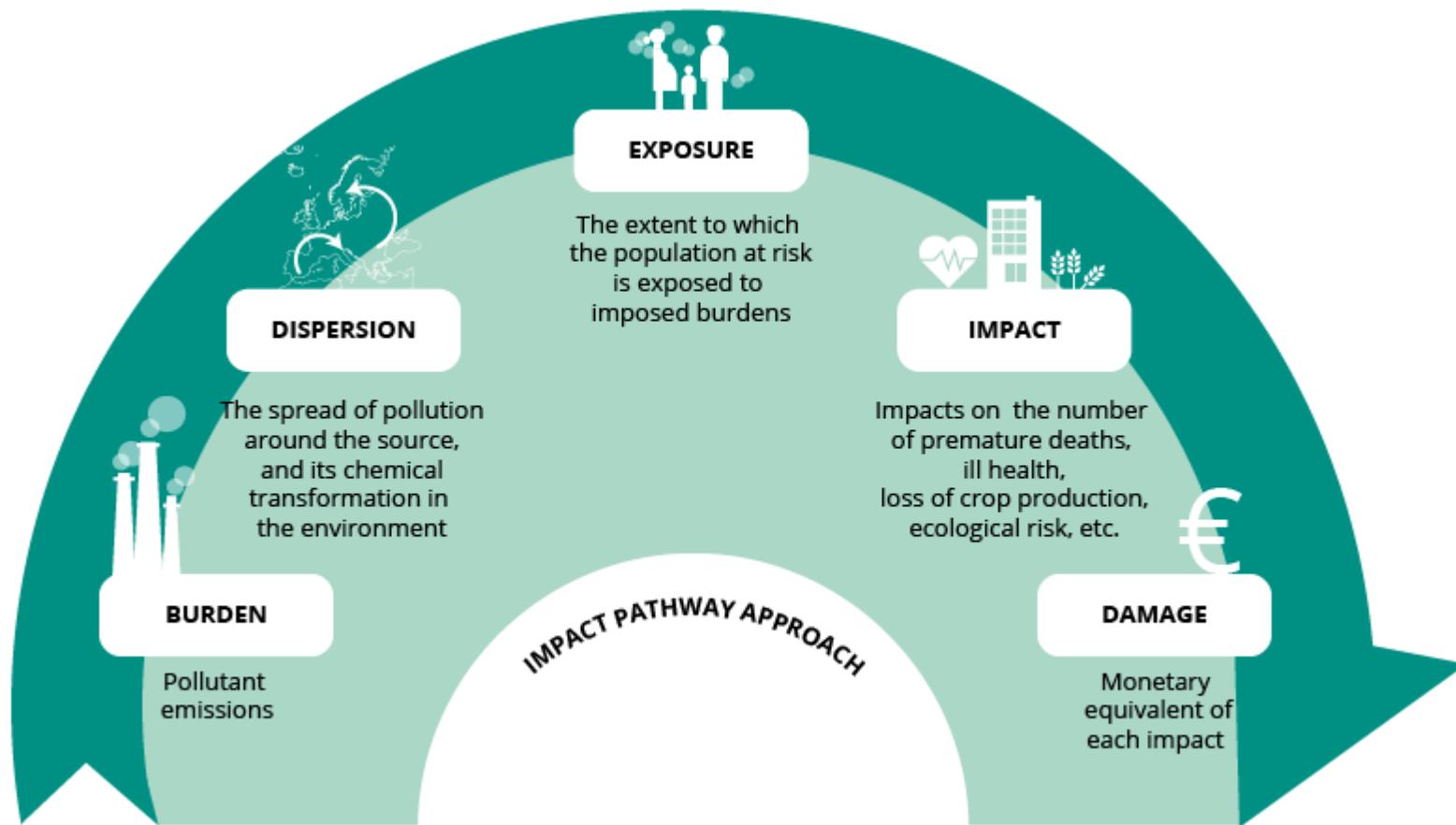
- **Programa Copernicus:**



- Piloto (2021): 12 plantas
- Segundo piloto (2022)

# Uso de datos E-PRTR: Cálculo de externalidades

- Publicado [aquí](#).

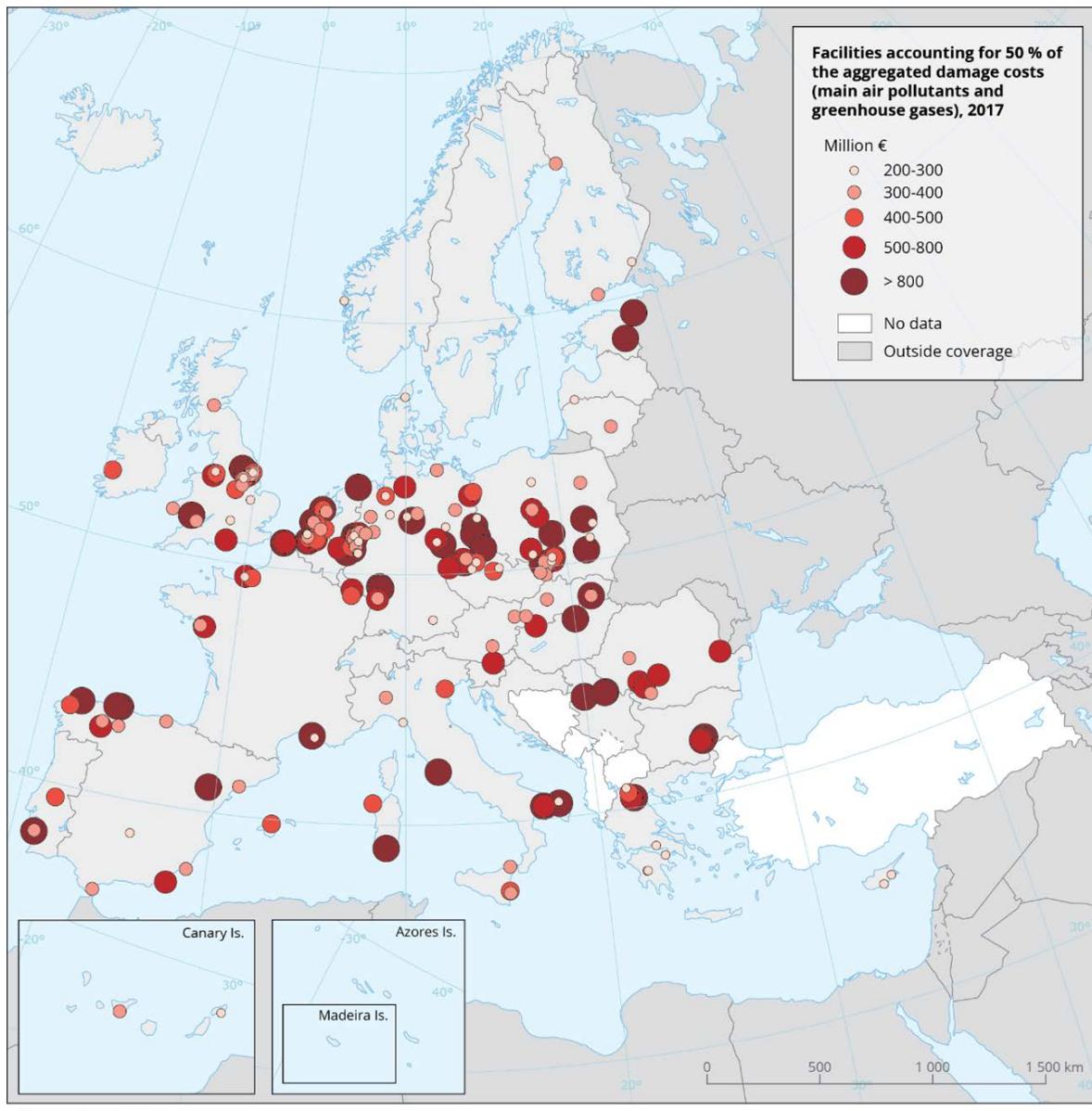


# Coste de la contaminación del aire causada por instalaciones industriales

- Coste del daño por tonelada calculado para 39 países europeos para los siguientes contaminantes:
  - Contaminantes del aire ‘principales’: Partículas ( $PM_{2.5}$ ,  $PM_{10}$ ), dióxido de azufre ( $SO_2$ ), amoniaco ( $NH_3$ ), óxidos de nitrógeno ( $NO_x$ ) y compuestos orgánicos volátiles no metánicos (NMVOCs),
  - Metales pesados: arsénico, cadmio, cromo VI, plomo, mercurio y níquel,
  - Contaminantes orgánicos: 1,3 Butadieno, benceno, formaldehido, hidrocarburos aromáticos policíclicos, dioxinas y furanos.
  - Gases de efecto invernadero: Dióxido de carbono, metano y óxido nitroso.
- Impactos:
  - Salud.
  - Ecosistemas y bosques
  - Cosechas
  - Daños materiales en edificios
- Emisiones de E-PRTR



# Uso de datos E-PRTR: Cálculo de externalidades





Gracias por su atención