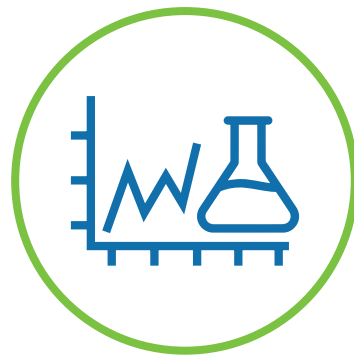


Public Report 2024

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The chemical sector,
refining
and the AEQT in numbers

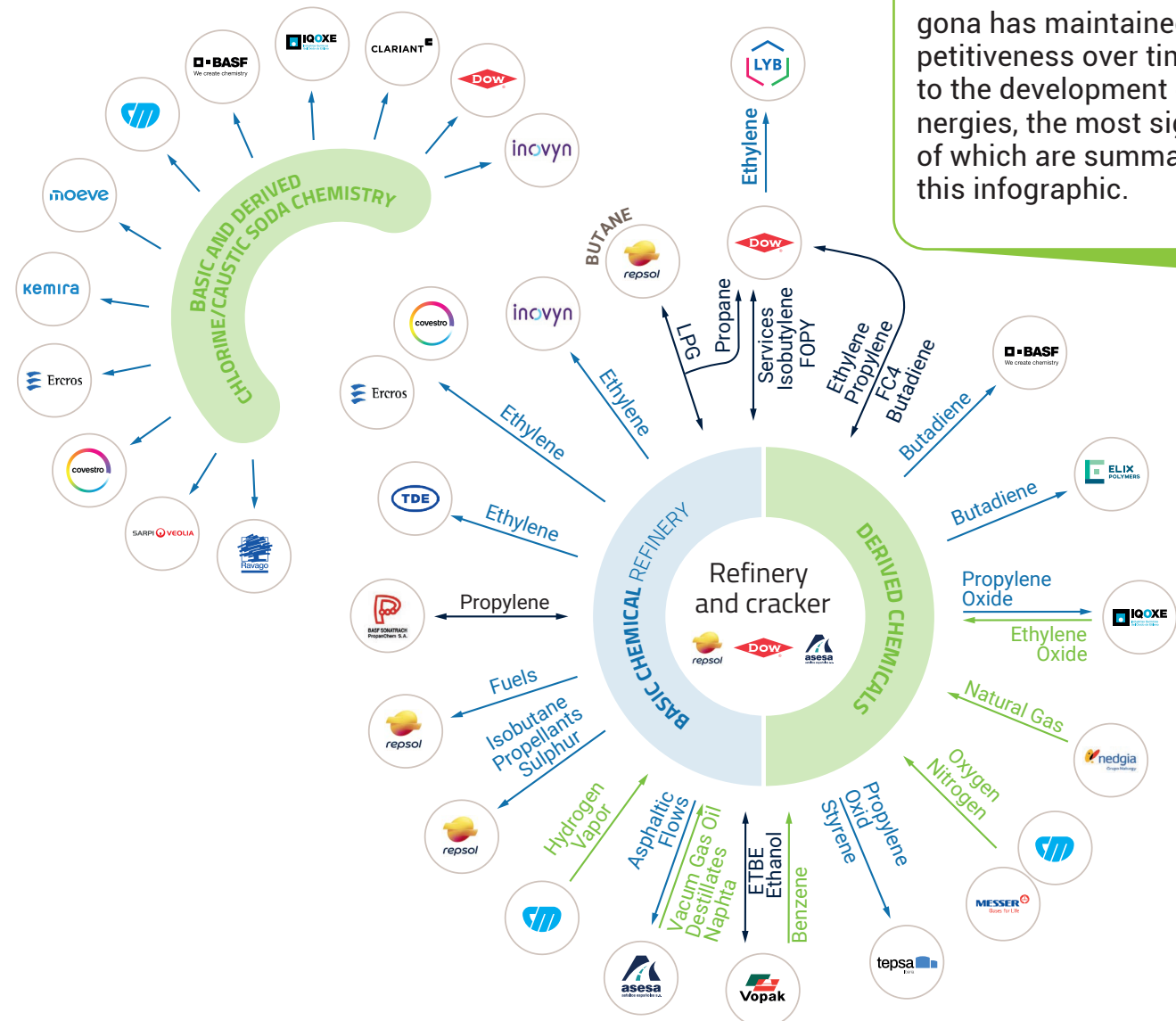
The chemical sector, refining and the AEQT in numbers

The Tarragona Industrial Complex stands out for its unique core products and for the integration of all its production processes.

With a big refinery and two crackers, an asphalt refinery and two chlorine plants, it initiates all downstream productions that bring high value-added products to the market in several essential sectors such as food, healthcare, construction, electrical materials, and leisure.

The chemical sector in Tarragona has several gas-producing companies and first-class logistics operators that complement the offering. Together with the APT facilities, they form the most important industrial cluster in southern Europe: ChemMed.

The following sections include references to the Spanish chemical and petrochemical sectors provided by their industry associations: FEIQUE, the Spanish Chemical Industry Federation, and AICE, the Spanish Fuel Industry Association, which represents companies with refining capacity in at least one European Union country and that operate in Spain in the distribution and marketing of petroleum products.



The chemical sector in Tarragona has maintained its competitiveness over time thanks to the development of its synergies, the most significant of which are summarized in this infographic.

The chemical sector, refining and the AEQT in numbers

The partnership between AEQT and the port for managing the significant logistics associated with the industrial complex has given rise to the ChemMed cluster, which AITSA has also joined.

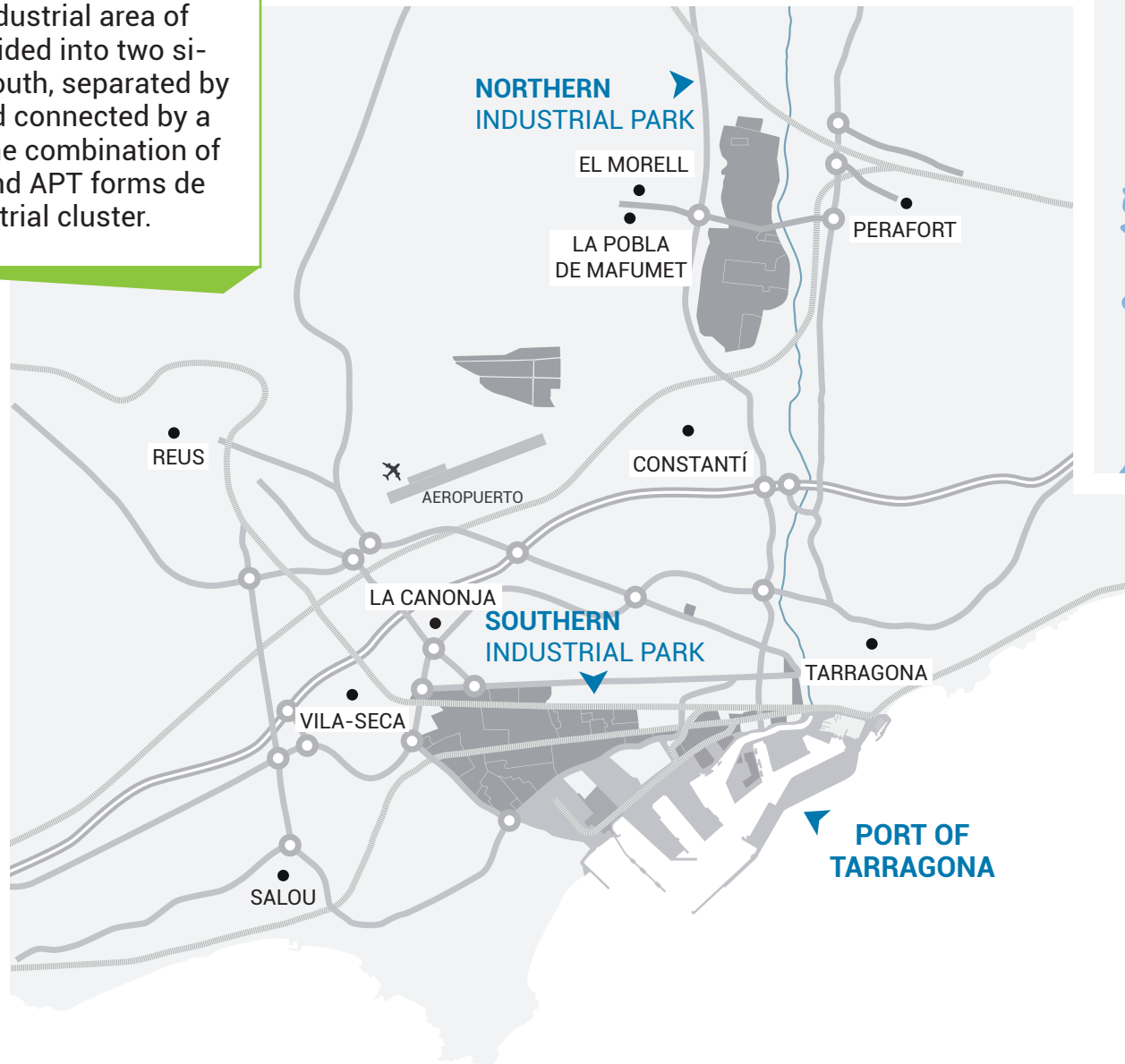
The Chemical Industry of Tarragona covers a large part of the chemical sector's value chain, from the extraction of raw materials to their multiple transformations. It opens up to the world through an export and import network in which the port plays a central role.

The connections among the companies within the Tarragona chemical hub provide an excellent example of diversity present in the chemical production value chain. The synergies between them move the raw material from its extraction through its various transformations.



The chemical sector, refining and the AEQT in numbers

The chemical industrial area of Tarragona is divided into two sites, north and south, separated by about 10 km and connected by a pipeline rack. The combination of AEQT, AITASA and APT forms de ChemMed industrial cluster.



The chemical sector, **refining** and the AEQT in numbers

Territorial implementation

Spanish refining sector



Source: AICE 2023

The output of the **refineries** associated with AEQT represents around

15%

of Spain's refining capacity

1,3%

Economic contribution of the national manufacturing industry's gross value added.

Source: AICE



Exports

27.480M€

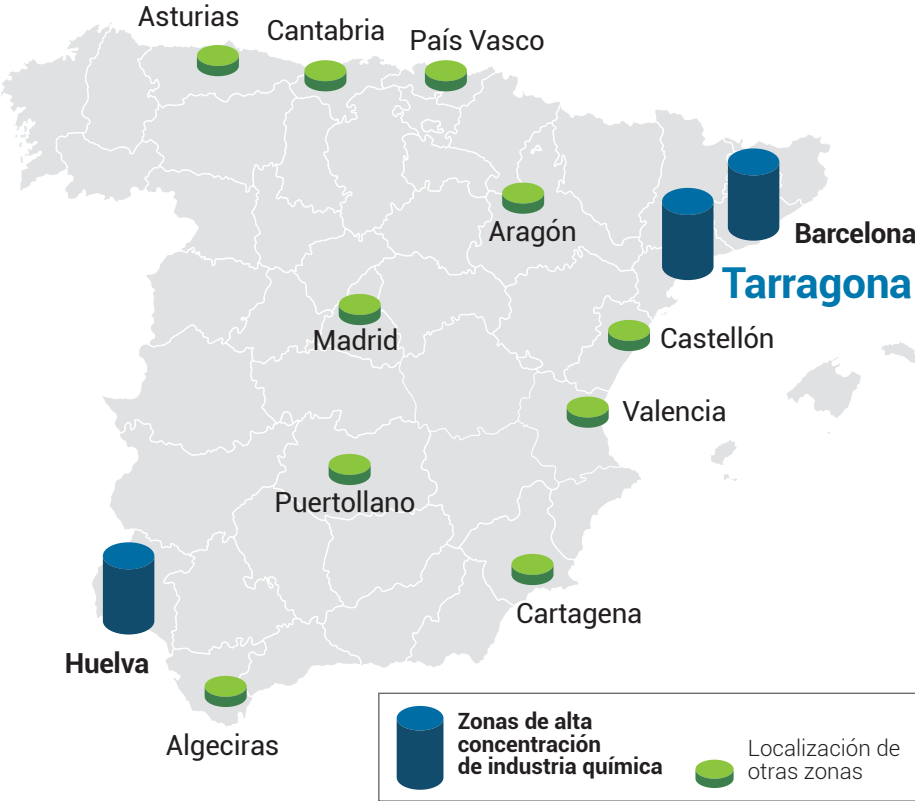
Revenue

48.559M€

Source: AICE 2023

Implantación territorial

Spanish chemical sector



Source: FEIQUE



Tarragona, the main chemical production hub in Spain.

50%



Of **Catalonia's** chemical production

25%

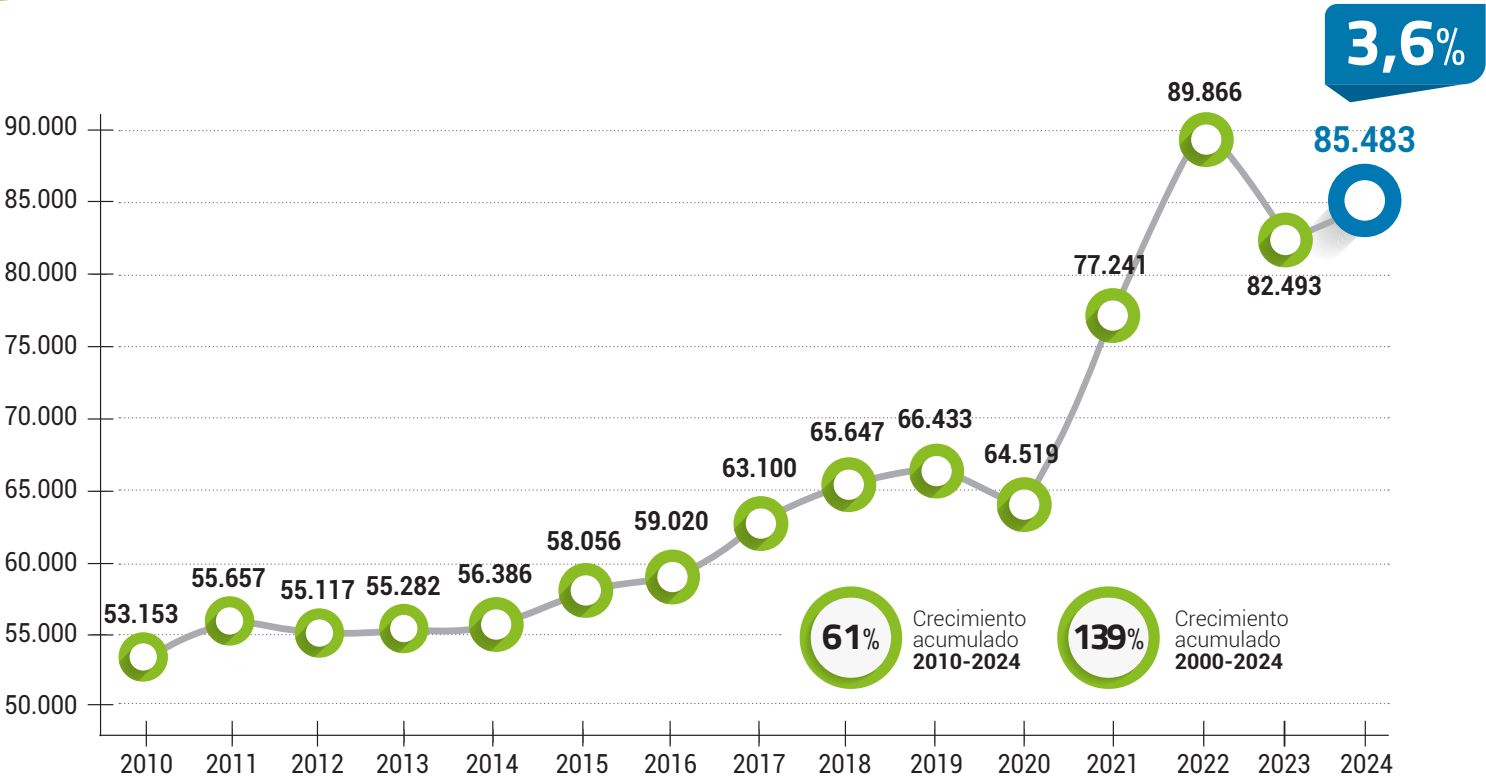


Of **Spain's** chemical production

Economic dynamism

Business volume - **export**

€ Evolution of the Chemical Sector's Turnover
2010-2024 (Million €)



Source: INE. Encuesta sobre Innovación en las Empresas + IPI, IPRI + FEIQUE

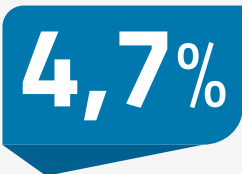
Tarragona's chemical sector, around



of Spain's **GDP**

Source: AEQT

Spanish **chemical** sector



of Spain's **GDP**
directly, indirectly,
and induced.

Source: FEIQUE 2024



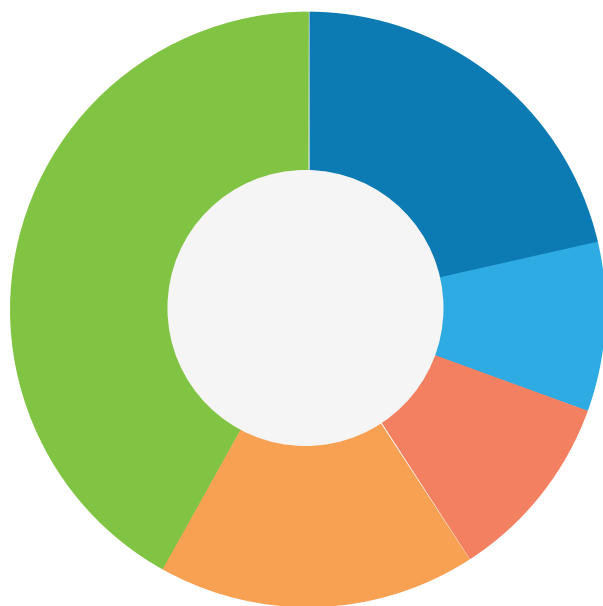
of Spain's industrial **GDP**

Source: FEIQUE 2024

Economic dynamism



Contribution by Autonomous Community
to the chemical sector's turnover,
2022 (%)



(*) Otras comunidades

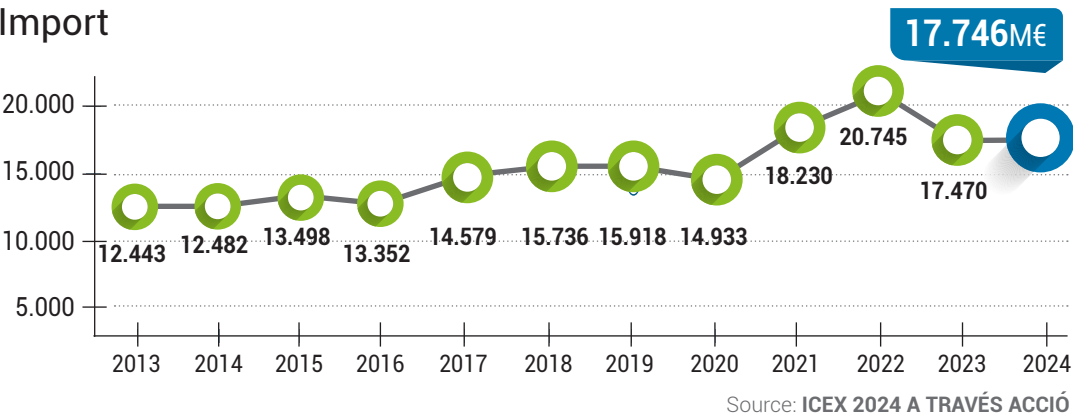
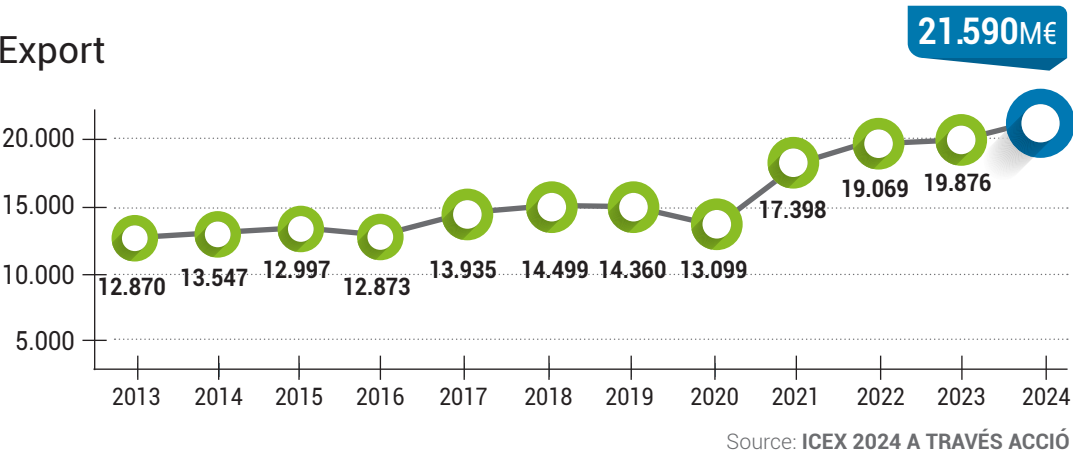
Aragón	3,8%
Castilla - La Mancha	3,7%
Castilla y León	3,6%
Murcia	3,5%
País Vasco	2,7%
Galicia	1,6%
Cantabria	1,5%
Asturias	1,5%
Navarra	0,8%
Extremadura	0,8%
Rioja	0,3%
Canarias	0,1%
Baleares	0,1%

Source: INE. Encuesta Industrial de Empresas + IPI, IPRI + FEIQUE 2022

Economic dynamism



Evolution of exports and imports in Catalonia over the last 10 years, 2010–2024 (Million €)



The chemical sector is the **TOP exporter in the region**, followed by the automotive and food sectors.

Source: ICEX 2024 A TRAVÉS ACCIÓ

+of **50%**

of the exports from the Tarragona province

Surce: ACCIÓ 2024

+of **60%**

of the movements at the Port of Tarragona

Source: APT



The chemical sector is the **second-largest industrial sector in Catalonia by turnover**

Source: INE 2023 A TRAVÉS ACCIÓ 2024

The chemical sector, refining and the AEQT in numbers



Total investment in the chemical and petrochemical sector in Spain

Investment in 2023

4.096M€

Refining investment in 2023

768M€

feiQue
Federación Empresarial de la
Industria Química Española

AICE

Source: INE a través de FEIQUE



Investment and R&D&I expenditure by sector in Spain

CNAE	Sector	2022	% sobre el total
20,21	Industria Química y Farmacéutica	2.000	24,0
29	Vehículos de Motor	1.938	23,2
30	Material de Transporte	947	11,3
10,11,12	Alimentación, Bebidas y Tabaco	745	8,9
26,27	Equipo Eléctrico, Electrónico y Óptico	525	6,3
22	Transformación Plástico y Caucho	416	5,0
28	Maquinaria y Equipo Mecánico	405	4,9
19	Coquerías y Refino	332	4,0
25	Productos Metálicos	292	3,5
31,32,33	Industrias Manufactureras Diversas y Otras	179	2,1
23	Minerales no Metálicos	151	1,8
13,14,15	Industria Textil, Confección y Calzado	150	1,8
16,17,18	Madera, Papel y Artes Gráficas	143	1,7
24	Metalurgia	124	1,5
TOTAL INDUSTRIA MANUFACTURERA		8.347	100,0

Source: INE a través de FEIQUE 2022

The sector in Tarragona invests approximately

500 M/year €

Source: AEQT

Is allocated to **safety improvements and environmental protection** of which around

30%



Investment and R&D&I expenditure in the Spanish chemical sector

2.000M€

total investment and expenditure

Source: FEIQUE

24%

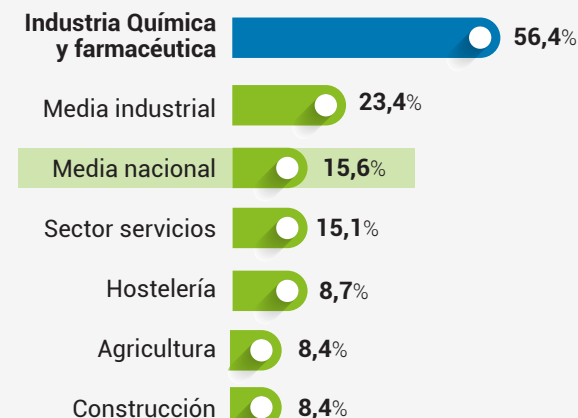
internal investment of the total industrial sector

Source: FEIQUE



Innovative companies

2022 (% of innovative companies out of the total)



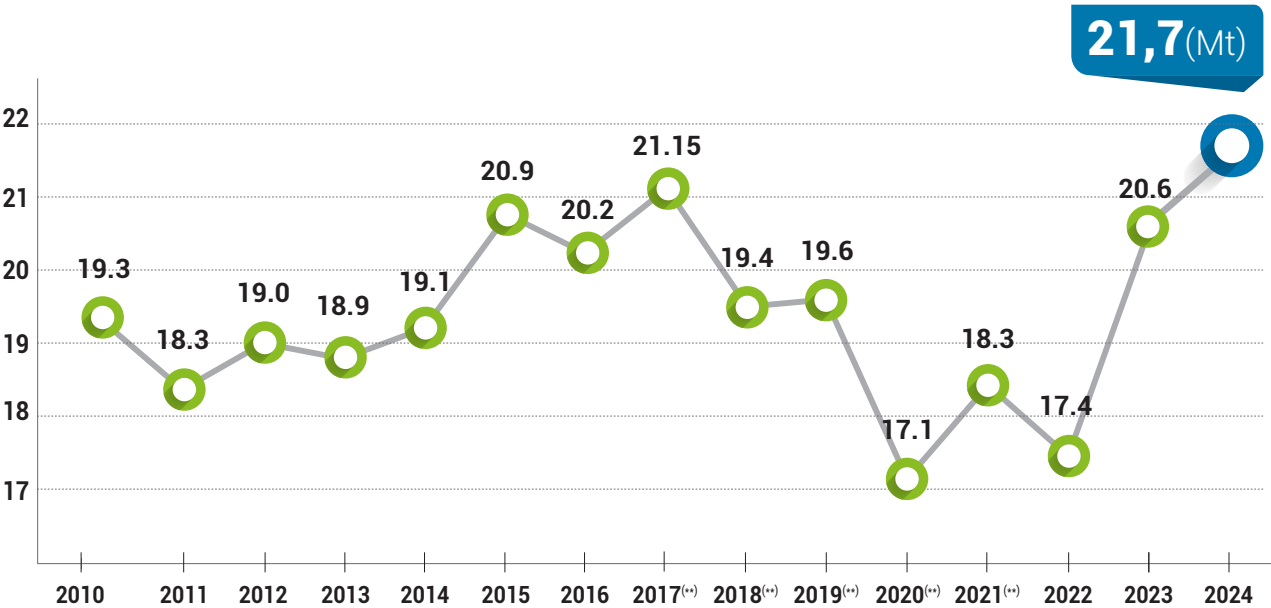
10 20 30 40 50 60 70 80

Source: INE a través de FEIQUE 2022

Overall production



Total production of the Tarragona petrochemical* sector.
Production in million tonnes.



* Incluye industria química y petroquímica de la demarcación de Tarragona
** Corrección error detectado 2022

Source: **AEQT**



Distribution of activity of AEQT-associated companies (%).

46%



Refining

43%



Chemicals

11%



Logistics

Source: **AEQT**

Stable and quality employment

Quality employment and learning

EMPLOYMENT generated
(direct, indirect, and induced)

44.000
PEOPLE



AEQT EMPLOYMENT

Direct employees:

5.800

Indirect employees:

5.200

Induced employment:

33.000

Job stability



Average salary per worker over

+40.000 year/€



Permanent contracts in Tarragona's
chemical sector

92,5 %



New hires in 2023

504
Employees



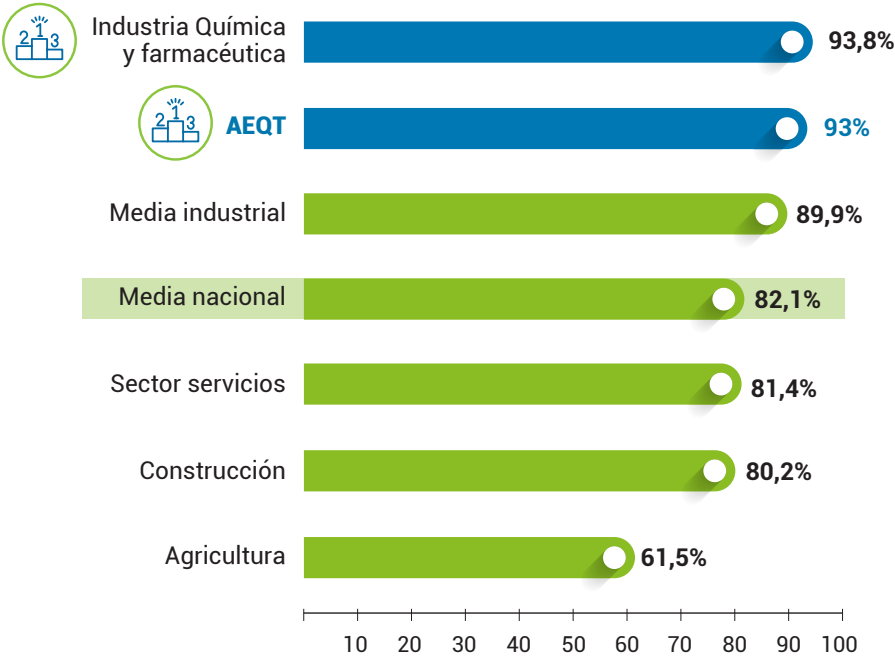
Learning expenditure
(per worker per year)

575 €

Stable and quality employment



Job stability by economic sector
2024 (% of salaried workers with permanent contracts)



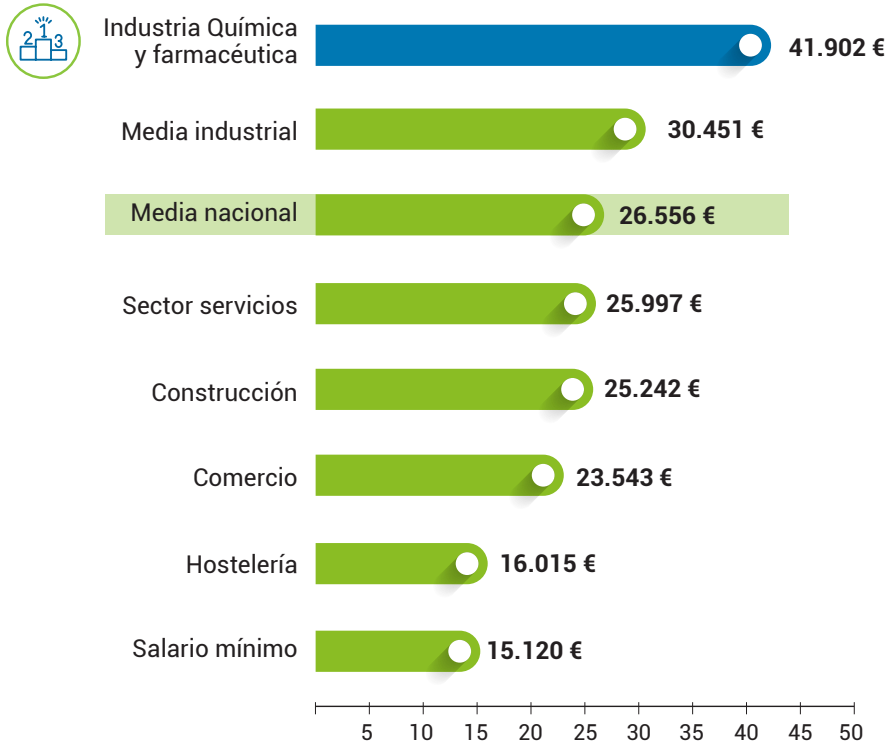
Source: FEIQUE Y AEQT



The chemical sector **exceeds the national average annual salary** per worker by **more than**

50%

Annual salary by economic sector
2023 (€)

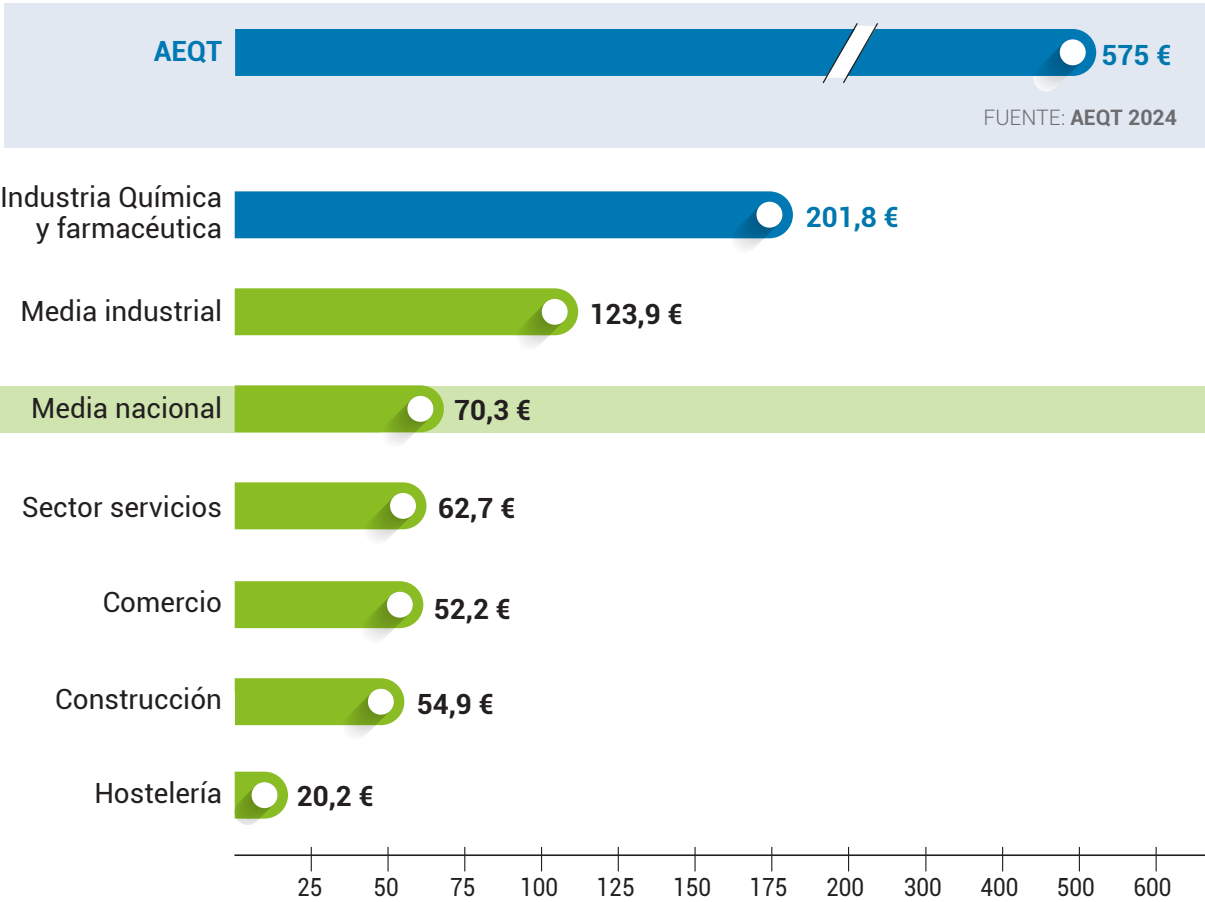


Source: FEIQUE

Learning and Inclusive Policies



Learning expenditure by economic sector
2023 (€ per employee per year)



FUENTE: AEQT 2024

Source: FEIQUE 2023

500
Workers

AEQT companies are pioneers in **Dual Learning** and provide inter-nships at their facilities, **hosting around 500 workers each year.**

Source: AEQT 2024

23
Nationalities

Represented in our workforce

Source: AEQT 2024

Most AEQT companies have equality and work-life balance plans or policies.

Occupational Health and Safety

Frequency rate* 2024

5,75 Frequency rate of the chemical sector in Spain

FUENTE: FEIQUE 2024

2,07
AEQT companies

Source: AEQT 2024

1,65
Service companies
(*) ACCIDENTS WITH SICK LEAVE

Source: FEIQUE 2024

Incidence rate** 2024

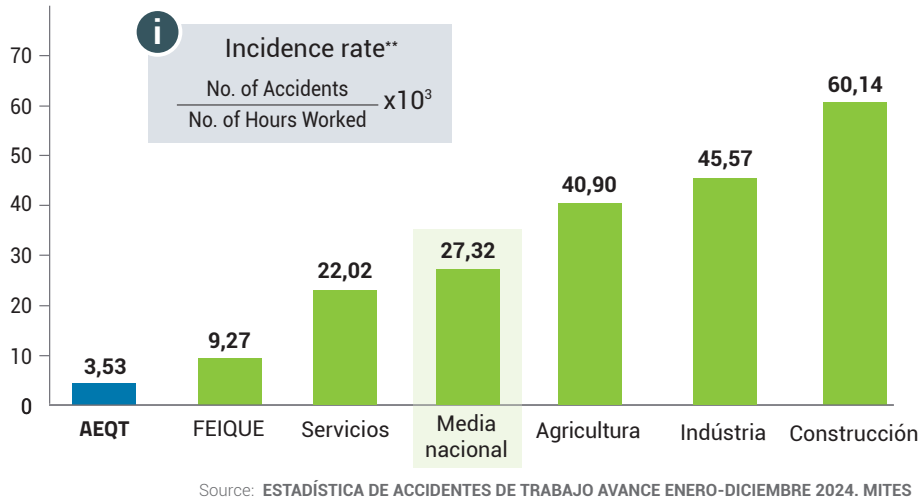
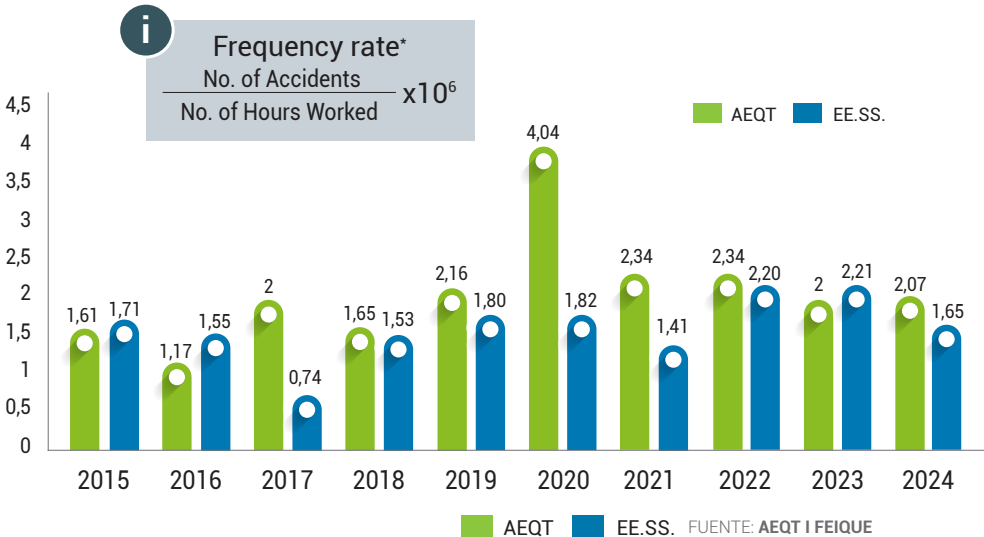
3,53
Workers injured per thousand exposed in AEQT companies

Source: AEQT 2024

9,27
Workers injured per thousand exposed in Feique companies (Spanish chemical sector)

(**) FEIQUE INCIDENT RATE

Source: FEIQUE 2024



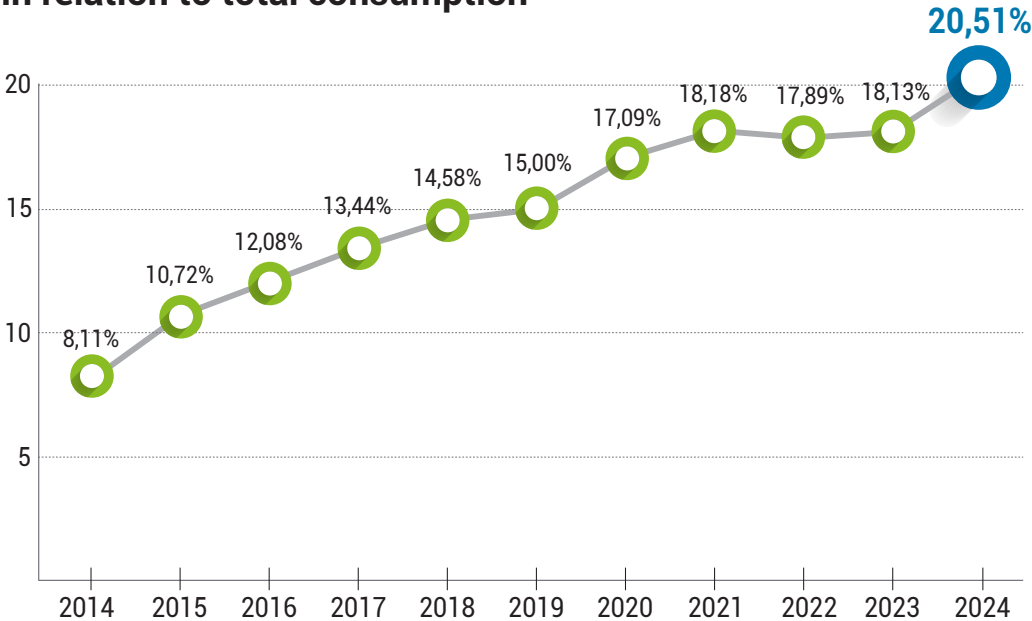
Environmental indicators



Reclaimed water as an increasing resource

20,51% of AEQT companies total water consumption in 2024 comes from **reclaimed water**

Percentage of reclaimed water in relation to total consumption

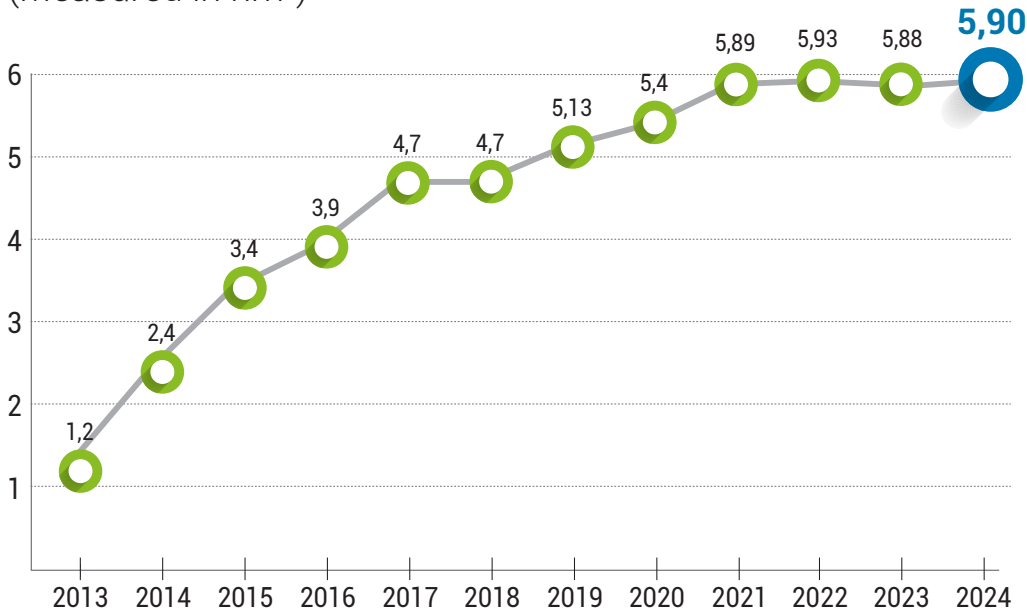


Source: AEQT Y AITASA 2024

5,90hm³ **2024** record in reclaimed water production/consumption

Ongoing projects aimed at reaching **40%** of total consumption from reclaimed /recirculated water in the coming years

Reclaimed water consumption by AEQT companies (Measured in hm³)



Source: AEQT Y AITASA 2024

Environmental indicators

2024
Historical minimum in
total water consumption



Water consumption by AEQT companies

28,77 hm³

Water consumption in 2023
by AEQT companies

5,90 hm³

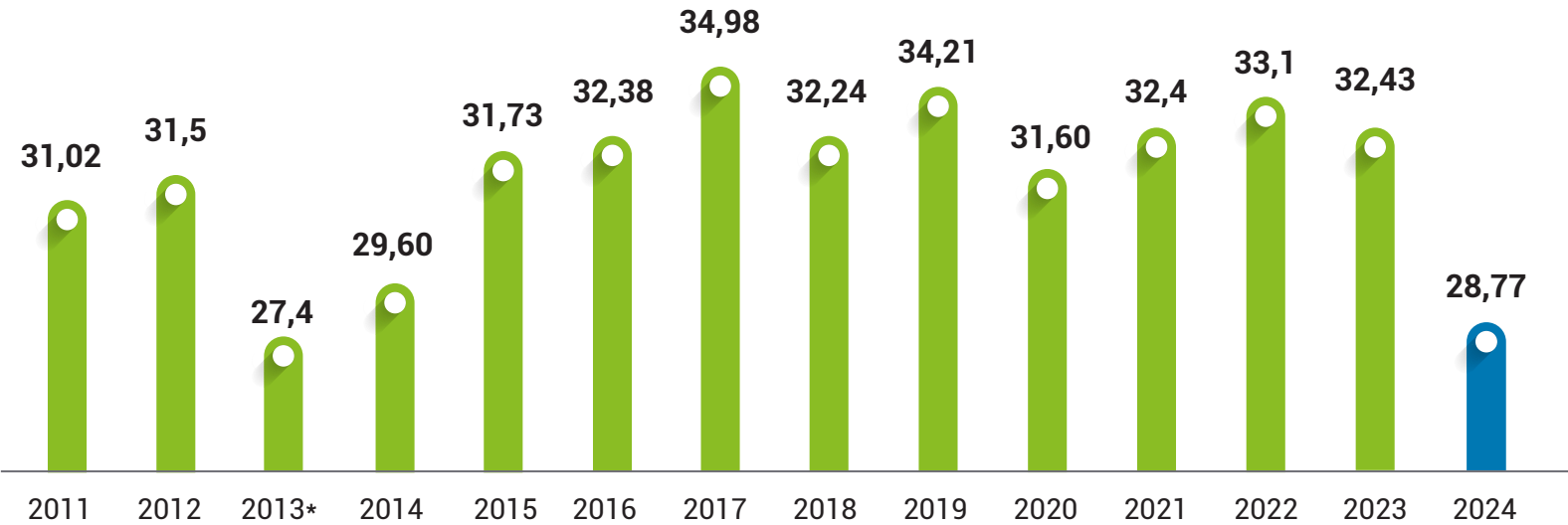
Reclaimed water consumption
by AEQT companies

20,51%

Reclaimed water consumption /
total water consumption in CAT



Water consumption by AEQT companies (Measured in hm³)



A continuous effort
to reduce water
consumption and
maximize reclaimed
water use

Discharge indicators

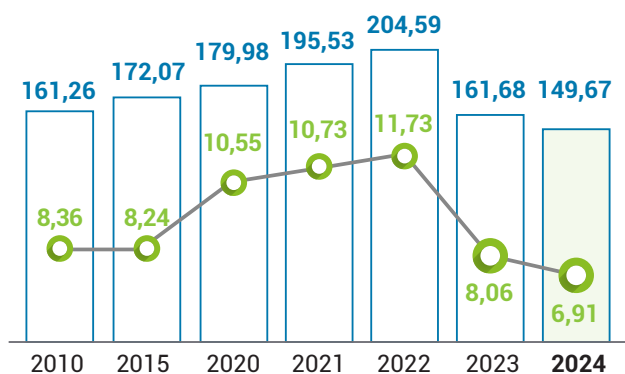
Nitrogen discharges

(In tons and g/t of production)

Values 2024

149,67 t

6,91 g/t



SOURCE: AEQT

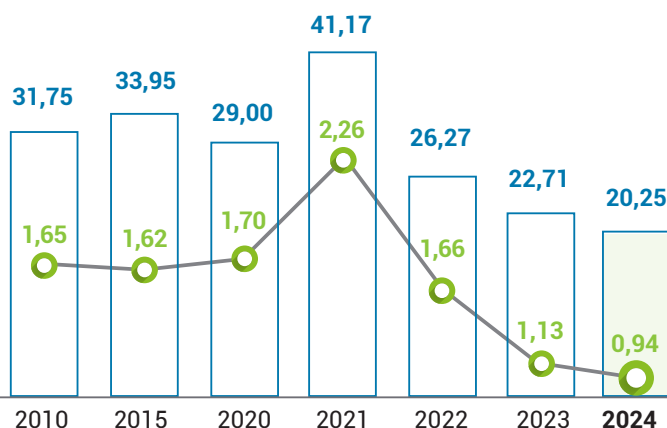
Phosphorus compound discharges

(In tons and g/t of production)

Values 2024

20,25 t

0,94 g/t



SOURCE: AEQT

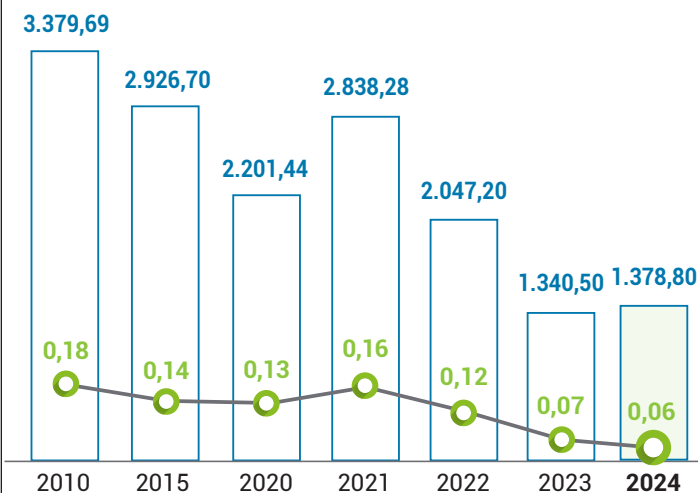
Chemical Oxygen Demand (COD)

(In tons and g/t of production)

Values 2024

1.378,8 t

0,06 kg/t

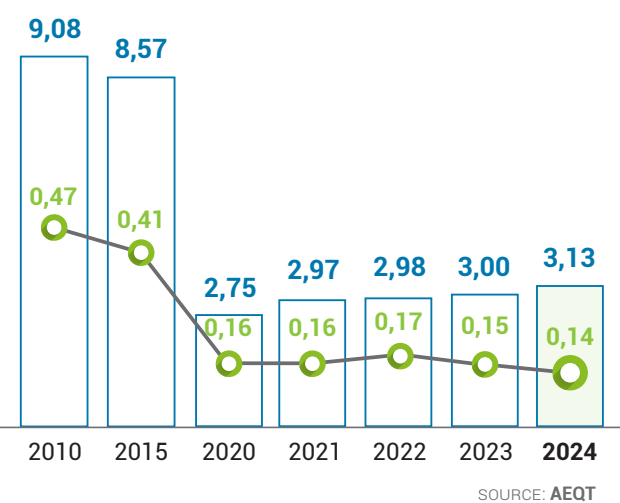


SOURCE: AEQT

Emission indicators

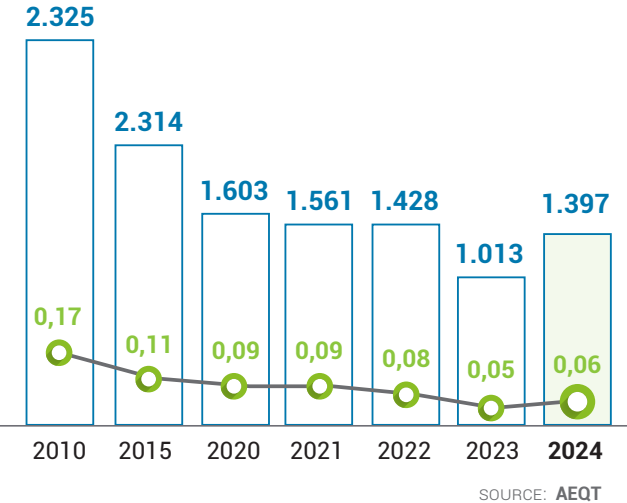
Nitrogen oxides (NOx) emissions
(In thousand tons and kg/t of production)

Values 2024
3,13 kt
0,14 kg/t



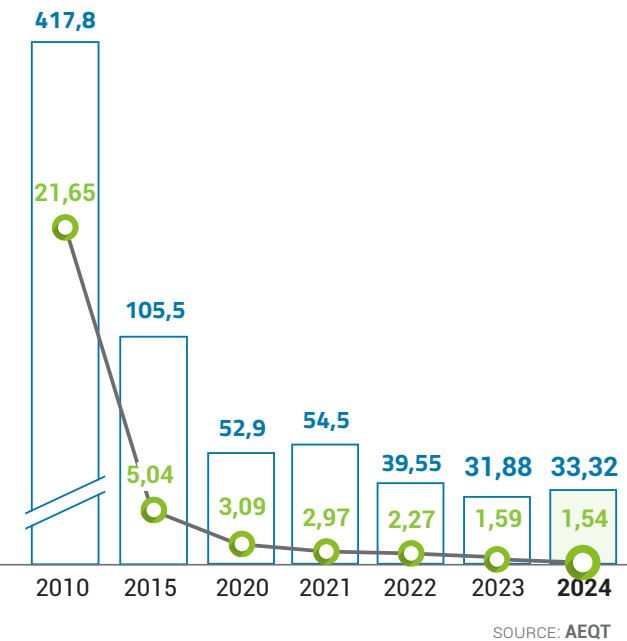
Volatile organic compound (VOC) emissions
(In tons and g/t of production)

Values 2024
1.397,57 t
0,06 g/t



Particulate matter (PM) emissions
(In tons and g/t of production)

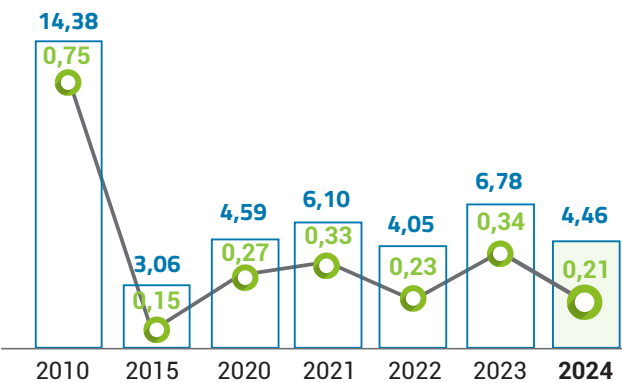
Values 2024
33,32 t
1,54 g/t



Emission indicators

Sulfur dioxide (SO₂) emissions
(In thousand tons and kg/t of production)

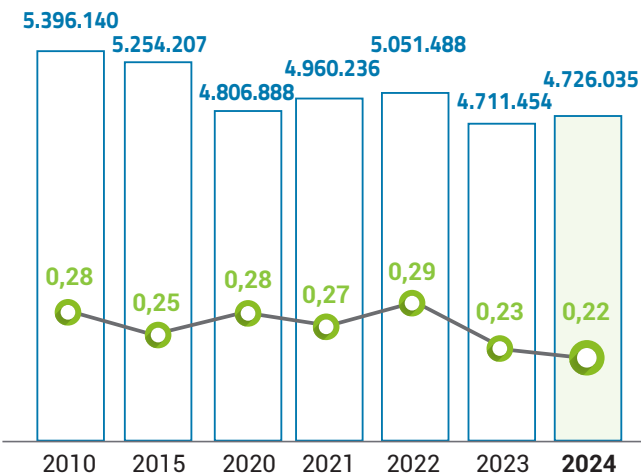
Values 2024
4,46 kt
0,21 kg/t



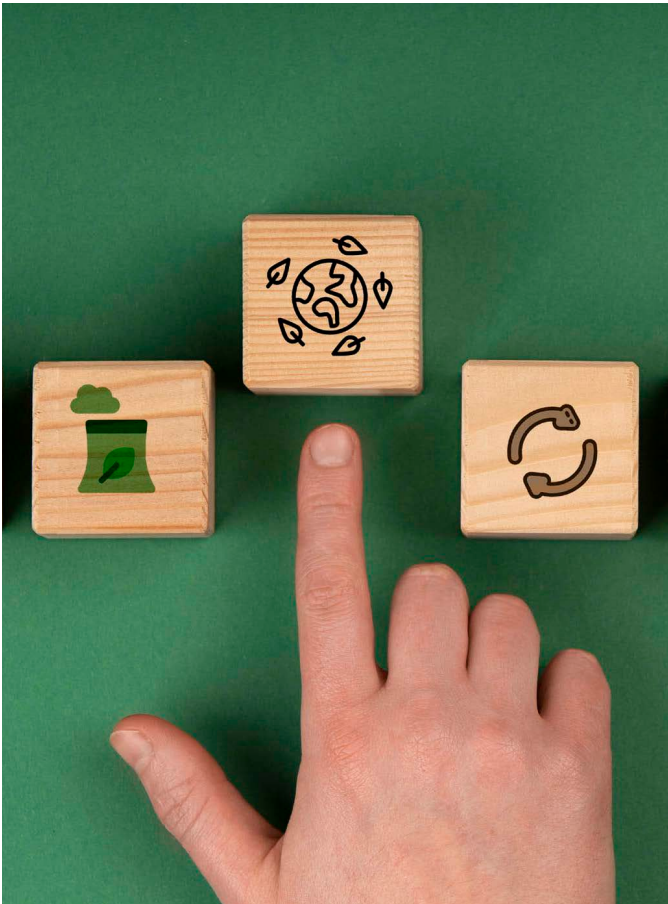
SOURCE : AEQT

Carbon dioxide (CO₂) emissions
(In tons and t/t of production)

Values 2024
4.726.035 t
0,22 t/ t



SOURCE : AEQT



Renewable energies



28,31% of the electricity consumption of AEQT companies is backed by guarantees of origin

SOURCE: INSTALACIONES SHELL



SOURCE: INSTALACIONES LYONDELLBASELL



SOURCE: INSTALACIONES CLARIANT

Tu Química



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