

Safety Management in AEQT

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1. OUR SECTOR & UNIQUE POSITION





3

Shared synergies

Refining





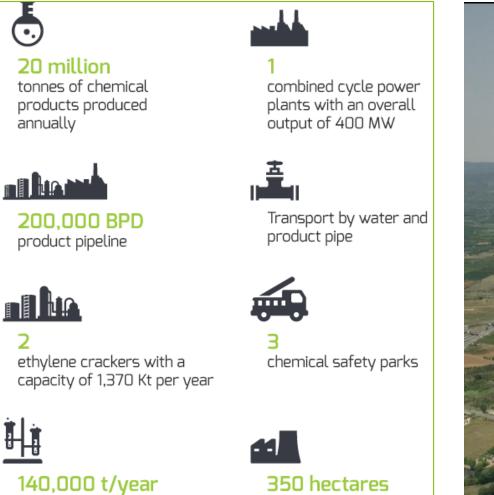
33 companies

Mostly large multinational chemical and petrochemical companies

Also, auxiliary or related companies: logistics, energy,...

AEQT: spokesperson for the sector, defends common interest, coordinates join projects, forum where best practices are shared...





14U,UUU t/year35U nectaresproduction capacityavailable for industrialethylene oxideinvestment



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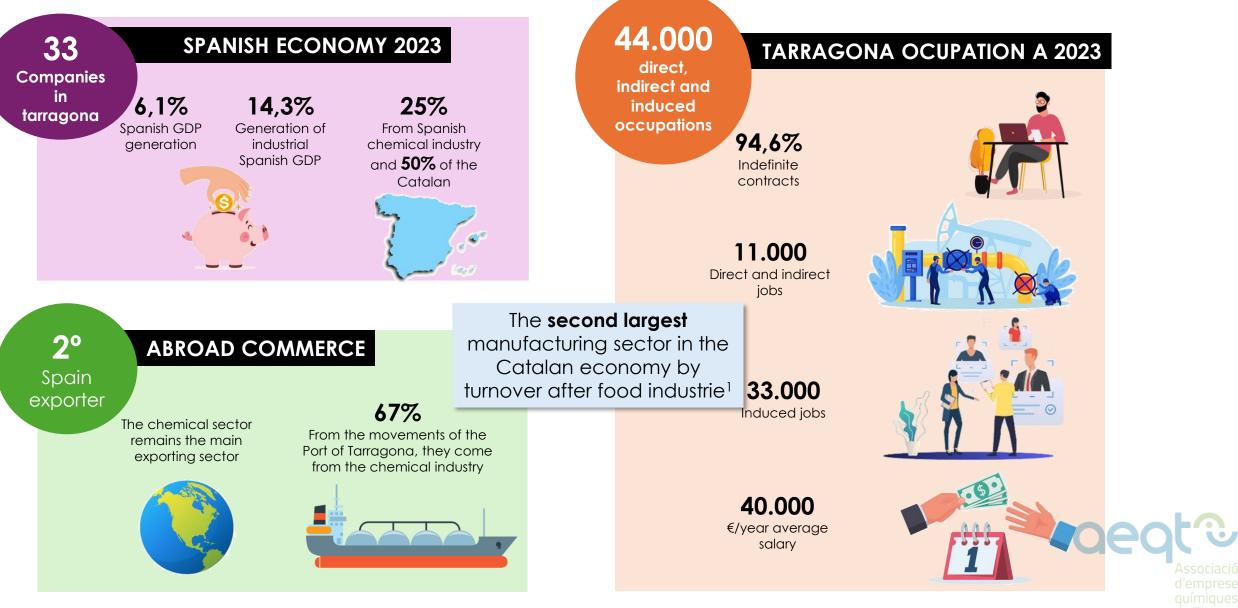
Global <u>reference</u> Chemical Complex in terms of <u>safety</u>, <u>sustainability</u> and <u>competitiveness</u>, with the <u>recognition</u> of the society in which we operate and generating value for the <u>territory</u>





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Social Impact



Congress EPSC 2024 ¹Fuente: Informe ACCIO, El sector químic a Catalunya. Maig 2023 / Flaix de conjuntura empresarial de Catalunya, 2023°

Social Impact



Stable and quality employment



Innovative, essential and sustainable products, eco Congress EPSC 2024 design

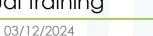
Social Contribution



Indirect and induced activity for hundreds of companies



Knowledge and research engine. Dual training

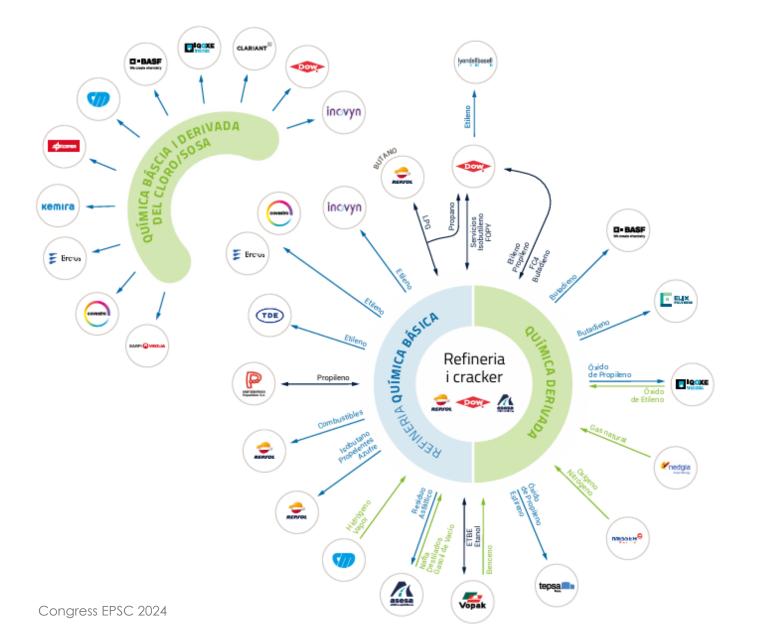


Pole of attraction in infrastructure



Educational projects, recognition programme, cooperation, social action Associació d'empreses

3



Integration and synergies

Refineries, crackers, chlorine plants, keys and singular for chemical production



0

de Tarrago

A strong, safe and Sustainable cluster



Annual investment by AEQT companies

€75 M

Annual investment in HSE



€500

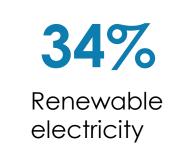
Average annual expenditure on training vs national average€70

18%

Regenerated water



Associació d'empreses químiques de Tarragona



Pooled Services



Chemical Safety Parks.



• Marine pollution response parks.



• Interconnection rack N-S DIXQUÍMICS.



- Distribution of industrial, reclaimed and CAT water. AITASA.18% -> 33%(2026) and 44% (2028)
- Joint effluent management



• Odor monitoring (NasApp)









AEQT – WHERE we are

Chemistry and tourism, a model of success.

UNESCO World Heritage

+20 M Overnight stays

160.000 Accommodation places

600,000 Visitors per year. 63 cruises









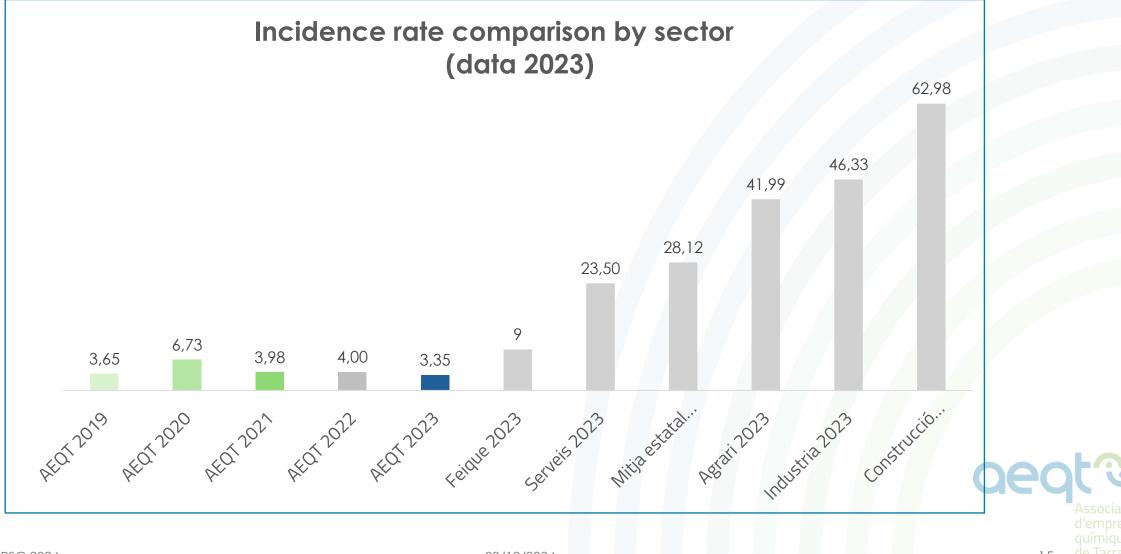
2. OUR SAFETY MANAGEMENT APPROACH



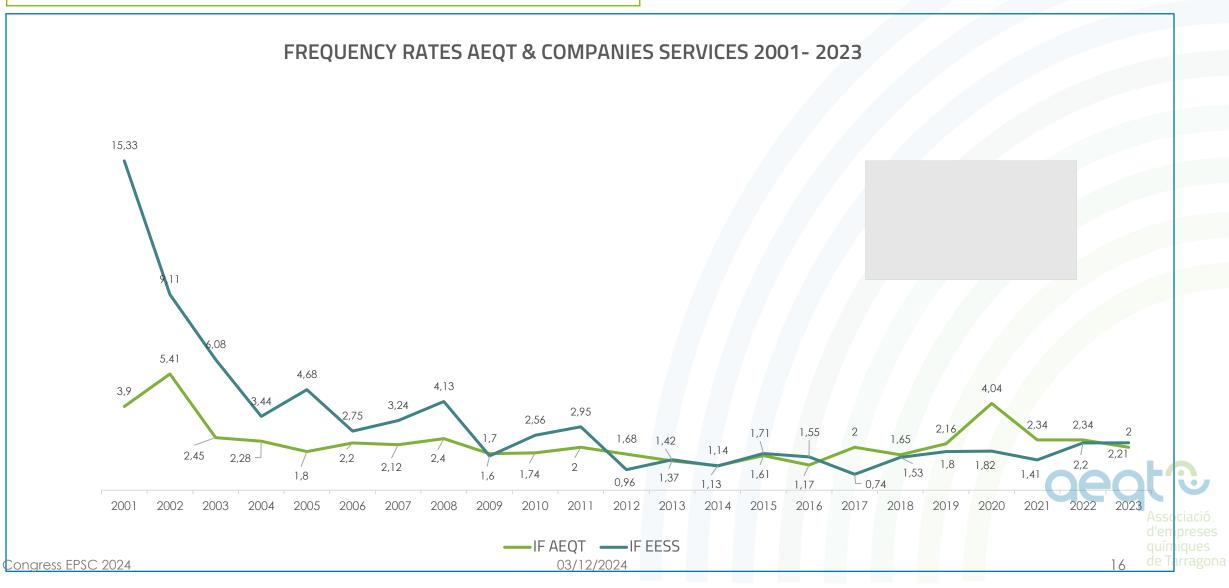


Towards zero accidents

SAFETY INDICATORS



SAFETY INDICATORS



WHY does AEQT exist?



Sharing best practices, learning from each other and from incidents



Promoting positive contribution of the sector



Educating and making world class knowledge available to our employees, partners and society



Integration and synergies





Excel in Safety

WHY does AEQT exist?

Mission and Vision

Mission

Generate shared agreements between companies and with the environment, which enhance the competitiveness of the Tarragona chemical industry through a new circular and decarbonized economy model and with maximum transparency, which contribute to the safe and sustainable development of the territory.



To be a global reference chemical complex in terms of safety, sustainability, competitiveness and innovation, with the recognition of the society in which we operate, generating value for the territory and responding to the global challenges of the energy transition.

Associació d'empreses químiques de Tarragona



Competitiveness & Innovation



19

Relevant projects

- 1. Safety excellence Audits
- 2. Human Factor training
- 3. Contractor companies certification
- 4. Process Safety training



Safety excellence audits: Unique programme – Why and What

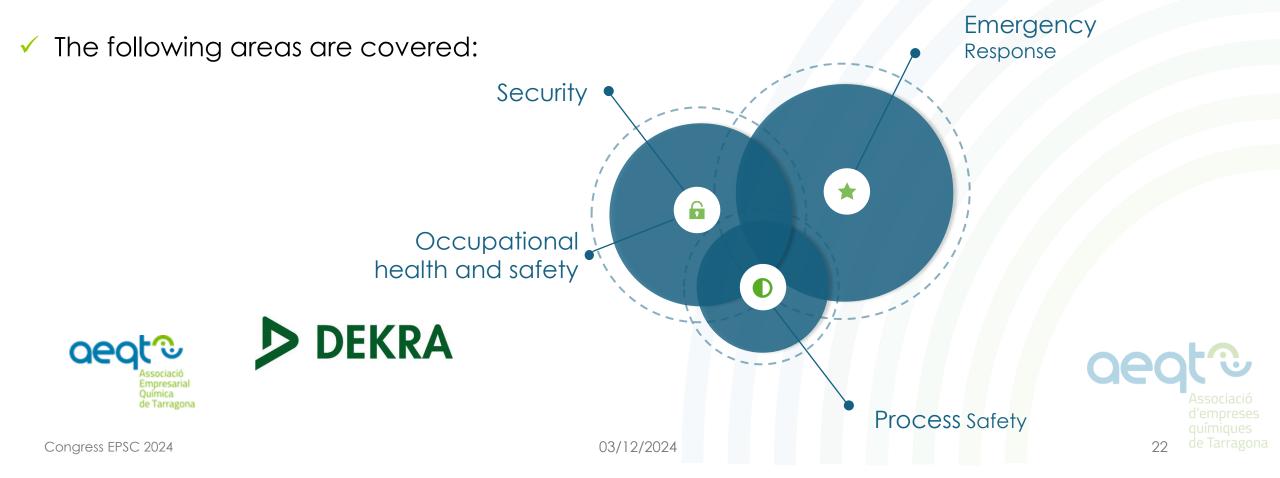
- The main objective of the AEQT is to reaffirm its commitment to safety through the creation of common standards for all member companies, above and beyond the legal requirements.
- ✓ It is a system based on the Responsible Care code.
- It is a condition to be associated





Safety excellence audits: Unique programme – How

 AEQT with DEKRA: Joint development of the handbook to 2021-2022.DEKRA is carrying out the audits from 2023 (pilot), planned to finish first round in 2025.



Training in HUMAN FACTOR

A tailored program on an industrial scale training facility to assess and understand how human factor impacts well trained employees supported by cutting-edge technology Addressed to :

Shift Managers

Assistant Shift Managers

Production/plant operators

Middle Management

Maintenance Supervisors

Panelists

Technicians

Duration: 4 hours

Attendees: +80

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Training in HUMAN FACTOR

Period: 2021-2025

Site: Parque Químico Norte



The methodology proposed for the Human Factors training project linked to the AEQT is based on a combination of 3 elements:

- Practical dynamics in a real environment (industrial installation simulator located at Parcs Químics de Tarragona).
- Use of Augmented Reality to generate an interactive experience with high added value by superimposing fictitious virtual elements on our vision of reality, avoiding real exposure to health and safety risks during the training process.
- Space in the classroom to reflect on the precursors of human error and its link with the decision-making processes put into practice during the dynamics.

Process Safety Training

Pioneering Process Safety training: Developed and delivered by Industry experts and SME's, public administration and University URV, addressed to technical operations roles.

- Duration: 30 hours
- Two editions so far:

2022-2023
+60 assistants







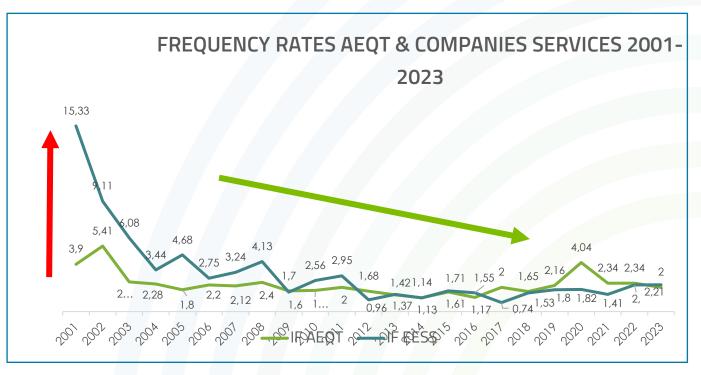


Associació d'empreses químiques 25 de Tarragona

Safety and Quality Certifications

- ✓ Joint projects with the Association of Service Companies of Tarragona (AEST) since 2007.
- Quality qualification certification for service companies since 2018.
- Safety Training Qualification in service companies since 2010

 2000 persons/yr



26

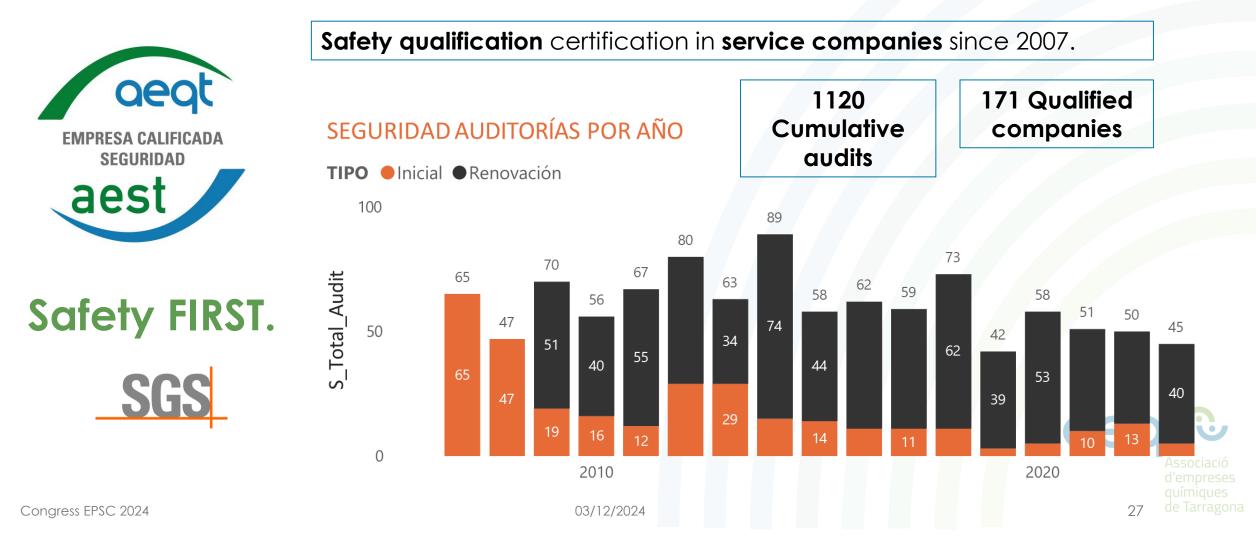


03/12/2024

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Safety and Quality Certifications

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Chemical Safety Stations

Integration and synergies

The AEQT's Chemical Safety Stations are company fire that stations provide services to companies in the petrochemical plants of Tarragona and act in the event of an accident or the emergency in of companies the petrochemical of plants Tarragona.



CHALLENGES



4. Challenges: competitiveness in a decarbonised and circular economy



Safety Excellence is the Only way

- To achieve and maintain safety excellence.
- Engage in safety new generations
- Gain social acceptance

Development/consolidation of technologies:

- To achieve the final goal of 0 emissions.
- Use of recycled raw materials.
- Total circularity of water.

Regulation:

- Legal security.
- Business friendly admin Reduce bureacracy

Infrastructures:

- Basic layout of the Mediterranean Corridor for rail connection with Europe
- Completion of A-27.





Thank you!