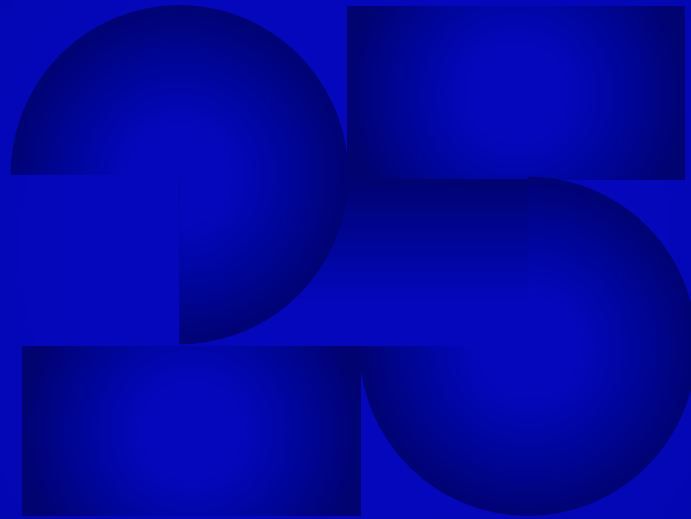


# 2025 Highlights



We thank everyone who contributed to our achievements in 2025 and look ahead to 2026 with confidence, focus, and continued commitment to engineering excellence.

Looking back on 2025, **MACOGA** delivered another year of **engineering excellence, innovation, and global collaboration**. Our teams successfully designed and supplied Expansion Joint solutions for demanding projects across the energy, infrastructure, marine, and defense sectors.

We strengthened our position as a trusted global partner by consistently meeting the **highest standards of quality, safety, and service**, while advancing our sustainability commitments through new certifications and environmental initiatives. This progress was made possible thanks to the dedication of our people, the trust of our clients, and the close collaboration of our partners worldwide.

Here is a brief look at some of the achievements we delivered this year across multiple industrial sectors and corporate fields. We look forward to 2026 with confidence and determination.

Oil & Gas

Power Generation

Marine and Defense

Water and Infrastructure

Chemical, Fertilizers and Petrochemical

On-site Services and Supervision

Sustainability and Certifications

Corporate & Events

## Oil & Gas

In 2025, MACOGA continued to strengthen its position as a trusted partner in the Oil & Gas sector, delivering high-performance Expansion Joint solutions for some of the most demanding refinery, FCC, and offshore applications worldwide.



In 2025, we further consolidated our leadership in FCC and refinery turnaround applications, delivering numerous Expansion Joint solutions and on-site services across Europe, the Americas, the Middle East, and Africa. Through custom-engineered equipment and expert field support, we enabled safe, reliable, and efficient refinery operations under some of the most severe operating conditions.

These are just a few examples of our achievements in 2025 in the Oil & Gas sector:

**MACOGA** further strengthened its position as a trusted global partner for the oil & gas industry, delivering complex Expansion Joint solutions for Fluid Catalytic Cracking (FCC) units across Europe, the Middle East, Africa, and the Americas.

Throughout the year, we supported some of the world's most demanding refineries and energy projects, combining advanced engineering, manufacturing excellence, and hands-on field expertise.

### Advanced Engineering for European Refineries

Europe remained a central pillar of our activity in 2025, where we continued to support some of the region's most critical refining assets. We delivered engineered **FCC Expansion Joint solutions, ranging from Double Gimbal, Spent Catalyst Standpipe Designs and Refractory-Lined** configurations, developed to perform reliably under extreme operating conditions, tight spatial constraints, and highly demanding process interfaces within FCC units across multiple **European** markets, including **Scandinavia** and the **United Kingdom**.

In parallel, we reinforced our technical presence on site through **field inspections, installation supervision, and hands-on engineering support**. By remaining closely involved during installation and commissioning phases, we ensured precise alignment, correct execution, and the long-term operational reliability of FCC systems, strengthening our role as a trusted technical partner throughout the full project lifecycle.

### Precision Under Tight Schedules

Speed and precision were defining elements of several flagship projects. One of the year's most notable achievements was the **design, manufacture, and installation of 0.6 mm clamshell bellows** in record time for a European refinery. This project demonstrated our ability to push engineering limits while meeting extremely demanding shutdown schedules.

We also delivered Expansion Joints for the **FCC reactor-to-fractionator line**, reinforcing our expertise in critical FCC process connections where reliability and accuracy are paramount.



FCC Refractory Lined  
Expansion  
Joint for a major  
Refinery in Scandinavia



FCC Spent Catalyst  
Standpipe Expansion  
Joint for European  
Refinery.



Double Gimbal FCC  
Expansion Joints for  
European Refinery

## Strong Presence in the Middle East and Americas

Our footprint in the Middle East continued to grow in 2025. In **Saudi Arabia**, we supplied **multiple FCC Expansion Joint packages** for major refineries, including fast-track projects supported by **on-site installation supervision** to ensure safe and efficient execution.

In **Argentina**, our teams successfully supervised FCC Expansion Joint installations, working closely with local stakeholders during critical phases. In **Brazil**, we contributed to offshore energy infrastructure by delivering a **rectangular Alloy 625 Expansion Joint** for the **BM-C-33 FPSO project**, designed for severe offshore operating conditions and long-term cyclic performance.

## Supporting Reliable Operation Worldwide

Beyond Europe and the Americas, we supplied **spent catalyst and regenerated catalyst Expansion Joints** for a major refinery in **South Africa**, tailored to aggressive service conditions within FCC units. Across all regions, our approach combined robust design, quality manufacturing, and hands-on field support.

## A Trusted Partner for Critical Assets

Across all oil & gas projects in 2025, we demonstrated our core strengths: **engineering precision, manufacturing quality, fast-track execution, and direct on-site involvement.** From refineries to offshore facilities, we continued to support our clients not only as a supplier, but as a long-term technical partner

committed to the safe, reliable, and efficient operation of their most critical assets.

Beyond individual projects, 2025 highlighted the full breadth of our expertise across the **Oil & Gas** industry. Throughout the year, we engineered, manufactured, delivered, and supported custom Expansion Joints and critical on-site services for upstream, midstream,

and downstream facilities across **Europe, the United Kingdom, Scandinavia, and the Middle East.**

From highly engineered refractory-lined and high-temperature designs for severe operating conditions, to on-site installation supervision and inspections during shutdowns and turnarounds, our teams ensured reliability, safety, and long-term performance.

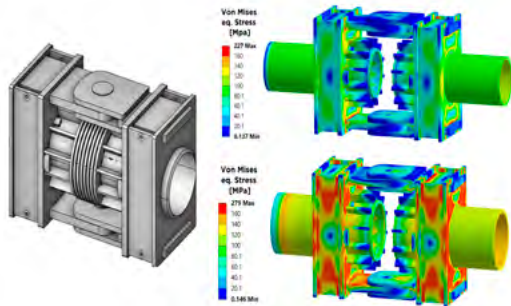


FCC Expansion Joint for Saudi Arabian Refinery fabricated in record time.

## ■ Power Generation

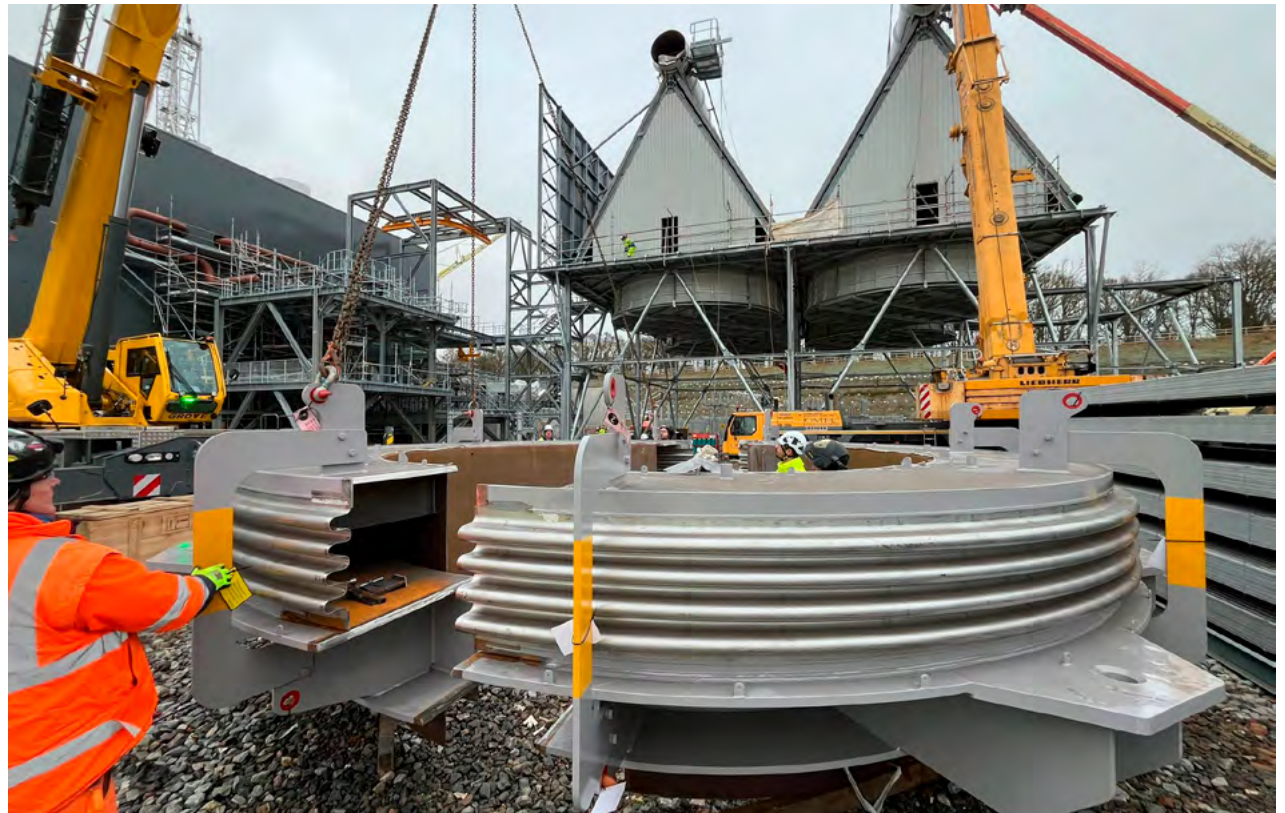
We strengthened our position in the **Power Generation** sector, delivering engineered Expansion Joint solutions and on-site services for demanding applications across power plants worldwide, including steam and gas turbine systems, HRSGs, condensers, and exhaust systems.

### Expansion Joints for Atomic Fusion Energy Project.



Sample Images

On-Site Assembly  
at Rivenhall  
Waste-to-Energy  
Facility in the UK



### Contribution to Advanced Nuclear and Fusion Energy Programs in the United States and the United Kingdom

MACOGA has contributed to highly regulated and technologically advanced nuclear energy programs in both the **United States** and the **United Kingdom**. In the U.S., our involvement in an **atomic fusion energy project** reflects our capability to support next-generation power technologies, where extreme operating conditions, precision engineering, and material

performance are critical to the development of future energy systems.

In parallel, we supported the development of a new nuclear power generation facility in the United Kingdom by supplying engineered solutions meeting stringent nuclear quality, safety, and reliability requirements. Our involvement in the **Hinkley Point C Nuclear Power Plant** project reinforces our role as a trusted partner for safety-critical energy infrastructure developed under highly regulated conditions.



Expansion Joints for the North London Heat and Power Project.

## Supporting Sustainable and Conventional Power Generation Infrastructure Across Key Regions

Beyond nuclear applications, we have supported a broad range of sustainable and conventional power generation projects worldwide. In the **Middle East**, we contributed to strategic waste-to-energy infrastructure in **Abu Dhabi**, delivering engineered solutions for large-scale facilities operating under demanding conditions. In the **United States**, we supported major power plant conversion projects, contributing to the modernization of existing generation assets. Across the **United Kingdom**, we participated in multiple energy-from-waste and combined heat and power projects, including new energy generation facilities, major **urban heat and power infrastructure in London**, and on-site assembly activities. Together, these projects highlight MACOGA's role as a technical partner supporting the development, modernization, and reliable operation of critical power generation infrastructure across diverse technologies and geographic regions.

Together, these projects reflect our continued commitment to supporting critical power generation infrastructure worldwide, across conventional, sustainable and advanced energy technologies.



Expansion Joints for Major Power Plant Conversion Project in the United States

UK's Hinkley Point C Nuclear Power Plant

## ■ Marine and Defense

We significantly expanded our footprint in **Marine and Defense** applications, delivering highly specialized Expansion Joint solutions for naval propulsion systems and advanced research vessels operating in some of the world's most demanding environments.

A landmark milestone was our contribution to the **Spanish Navy**, supplying high-temperature fabric Expansion Joints for the gas turbine exhaust system of its flagship **amphibious assault ship**, Juan Carlos I (L-61).

We also provided high-performance Expansion Joints for one of the **world's most advanced polar research vessels**. Engineered to endure extreme low temperatures, continuous vibration, and severe thermal cycling, these solutions support critical onboard systems operating reliably in both **Arctic and Antarctic conditions**.

Together, these projects highlight MACOGA's ability to deliver reliable, custom-engineered solutions for mission-critical marine and defense systems under extreme operating conditions.



Spanish Navy's amphibious assault ship.



Expansion Joints for World's Most Advanced Polar Research Vessel.

## ■ Water, mining, steel and other Infrastructures

MACOGA supported major water and infrastructure projects, supplying Expansion Joints for potable water systems, mining operations, and steel production facilities.

For **Saudi Arabia's Juranah ISWR** project near Makkah, MACOGA supplied EPDM-lined Expansion Joints for a strategic potable water reservoir system. These expansion joints ensure flexibility, leak-tightness, and long-term reliability in one of the region's most critical water infrastructure projects.

MACOGA also delivered high-temperature fabric Expansion Joints for **mining operations in Mexico** and refractory-lined hinged Expansion Joints for **Midrex steel plants in the Middle East and North Africa**. Designed for temperatures up to 1,000 °C, these solutions support reliable and lower-emission steel production using direct reduction technology.

Jacketed Pantographic  
Expansion Joint for  
steel corporation

Juranah ISWR Project  
in Saudi Arabia



## ■ Chemical, Fertilizers and Petrochemical

We continued to support the chemical, fertilizer, and petrochemical industries with high-performance Expansion Joint solutions designed for extreme pressure, temperature, and corrosive service conditions.

A key milestone was the delivery of a **U-Stamp certified high-pressure Expansion Joint** for a **KBR-licensed fertilizer plant in Egypt**, engineered to ASME standards for demanding hydrogen-rich operation. We also supplied **PTFE-lined Expansion Joints** for highly corrosive petrochemical services in **Saudi Arabia** and **corrosion-resistant high-pressure solutions** for European petrochemical heat exchanger systems.

Together, these projects reaffirm our ability to meet stringent licensor requirements while delivering reliable, long-life solutions for critical chemical processes.

PTFE Lined  
Expansion  
Joints for Saudi  
Petrochemical  
Company



## ■ On-site Services and Supervision

Throughout 2025, MACOGA provided extensive on-site supervision and field services across Europe, the Middle East, and the Americas. Field teams supported FCC installations, refinery turnarounds, and emergency interventions, ensuring correct installation, alignment, and commissioning.

Key assignments included **FCC turnaround supervision in Northern Europe**, extended **on-site support in Saudi Arabia**, installation supervision at the **Raízen Refinery in Argentina**, and **emergency clamshell replacements at a UK refinery**. These services minimized downtime and ensured safe, reliable startup of critical units.

MACOGA's global field presence reinforces its position as a full lifecycle partner, from engineering and fabrication to installation and commissioning.

FCC On-Site Service at UK Refinery.



FCC Expansion Joints Installation Supervision in Argentina



High-Pressure Clamshell Expansion Joint in Alloy 625 for Petrochemical Plant in Europe



## ■ Sustainability and Certifications

CERTIFIED  
ISO 14001



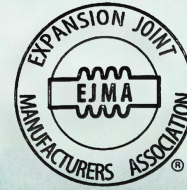
BUREAU  
VERITAS

CERTIFIED  
ISO 45001



BUREAU  
VERITAS

Expansion Joint  
Manufacturers Association, Inc.



Certificate of  
Membership

In 2025, MACOGA achieved major sustainability milestones and earned key certifications, reinforcing its commitment to environmental responsibility and workplace safety.

In September, MACOGA received official approval from **Spain's Ministry for the Ecological Transition (MITECO)** for its verified carbon footprint calculations for 2022 and 2023. This recognition demonstrates **MACOGA's** transparency and proactive approach to emissions management, with preparation already underway for subsequent reporting cycles.



MACOGA also achieved **ISO 14001 (Environmental Management)** and **ISO 45001 (Occupational Health and Safety)** certifications, formalizing structured processes to minimize environmental impact and protect employee well-being. These certifications reflect **MACOGA's** integration of sustainability and safety into its core operations.

Additionally, **MACOGA** continued its active role in industry standards through participation in the release of the **EJMA 11th Edition**. By supporting updated design standards focused on safety, durability, and performance, **MACOGA** contributes to advancing sustainable and reliable Expansion Joint technology across the industry.

## ■ Events

Throughout the year we strengthened MACOGA's global presence through major industry events, technical leadership, and corporate initiatives.

We participated very successfully in the **SABIC Technical Meeting 2025**, where we connected with leading petrochemical companies, reinforced relationships with key clients, and showcased our expertise in complex, tailor-made expansion joints for demanding applications.

We also achieved outstanding results at **ADIPEC 2025 in Abu Dhabi**, engaging with global energy leaders and consolidating our position as a trusted supplier of high-performance expansion joints for critical industrial services.

Our corporate initiatives included celebrating **International Women's Day** and continuing our active contribution to **EJMA 11th Edition standards development**, reaffirming our commitment to engineering excellence and industry collaboration.

We maintained strong digital communication through our website and professional networks, ensuring transparency and close connection with partners and clients worldwide.

Looking ahead, we have confirmed our participation in **CHEMUK 2026**, where we will further expand our presence in the chemical and process industries.



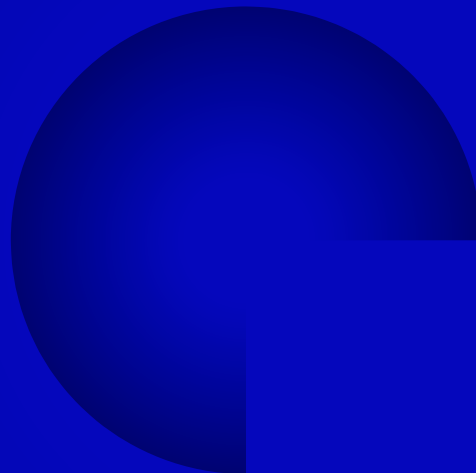
## ■ Looking Ahead to 2026

We enter 2026 with strong momentum, confidence, and a clear strategic vision. Building on the achievements of 2025, we continue to strengthen our role as a trusted industrial partner supporting the global energy transition, while expanding our presence across waste-to-energy, hydrogen-ready power systems, chemical processing, and advanced energy applications.

Sustained demand in refining and associated services reinforces the solidity of our core markets, complemented by the expansion of our on-site support capabilities and continued development of advanced materials and engineered solutions. Innovation remains a central pillar of our strategy, driven by increased use of simulation, lifecycle assessment, and digital monitoring technologies to enhance reliability, performance, and long-term value.

With a firm commitment to sustainability, global growth, and technical leadership, we are well positioned to address future industrial challenges and to continue delivering high-performance, reliable Expansion Joint solutions for critical infrastructure worldwide.





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ENGINEERED EXPANSION JOINTS