CNAT 2024

ANNUAL REPORT

AENOR
Gestión Ambiental
UNE-EN ISO 14001

CERTIFIED IQNet MANAGEMENT SYSTEM

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certificado en conciliación
1000-1
ES-096 / 2010 / AENOR

ALMARAZ TRILLO

ALMARAZ TRILLO

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ALMARAZ NPP

OWNERS
Iberdrola Generación Nuclear, S.A.U. (52,7%)
Endesa Generación, S.A.U. (36,0%)
Naturgy Generación Térmica, S.L.U. (11,3%)

LOCATION
Almaraz (Cáceres, Spain)

TECHNICAL FEATURES
Reactor Type: Pressurized Water Reactor (PWR)
Supplier: Westinghouse
Thermal Power: 2,947 MWt (U1) - 2,947 MWt (U2)
Fuel: Enriched Uranium Dioxide (UO_2)
Number of Fuel Assemblies: 157
Gross Power Generation:
1.049,43 MWe (U1) - 1.044,45 MWe (U2)
Net Power Generation:
1.011,30 MWe (U1) - 1.005,83 MWe (U2)
Cooling: Open circuit. Arrocampo Dam

Start of Commercial Operation
September 1, 1983 (U1) – July 1, 1984 (U2)

Operating License valid
until November 1, 2027 for Unit 1,
and until October 31, 2028 for Unit 2

Cycle Duration
18 months for both units

TRILLO NPP

OWNERS
Iberdrola Generación Nuclear, S.A.U. (49%)
Naturgy Generación Térmica, S.L.U. (34,5%)
Iberenergía, S.A.U. (15,5%)
Endesa Generación, S.A.U. (1,0%)

LOCATION
Trillo (Guadalajara)

TECHNICAL FEATURES
Reactor Type: Pressurized Water Reactor (PWR)
Supplier: KWU
Thermal Power: 3,010 MWt
Fuel: Enriched Uranium Dioxide (UO_2)
Number of Fuel Assemblies: 177
Gross Power Generation: 1,066 MWe
Net Power Generation: 1,003 MWe
Cooling: Natural Draft Cooling Towers (Tagus River)

Start of Commercial Operation
August 6, 1988

Existing Operating License
Issued in November 16, 2024 for a period of 10 years

Cycle Duration
12 months

MESSAGE OF CNAT'S CHIEF EXECUTIVE OFFICER (CEO)

Javier Ugedo Álvarez-Ossorio

The Nuclear Power Plants of Almaraz and Trillo closed 2024 with excellent results in terms of safety, dose, production, and refueling outage performance. Such results illustrate the commitment and effort of the CNAT team, whose professionalism and high qualifications are key to our success.

In a year marked by operational excellence, both sites held their positions within the top category of the World Association of Nuclear Operators (WANO), thus highlighting their outstanding performance and quality operational standards. The reliability and stability of operations made it possible for nuclear energy to keep playing a key role in Spain's electricity supply, generating 20% of all power generation and doing so without any CO_2 emissions into the atmosphere.

Production data supports this performance. In 2024, Almaraz Nuclear Power Plant reached a gross power generation of 15,655 GWh, preventing the emission of 5.5 million metric tons of CO_2, whereas Trillo Nuclear Power Plant achieved a gross production of 7,676 GWh and prevented the release of 3 million tons of CO_2 into the atmosphere. This confirms the position of our power plants as key facilities to secure a safe and sustainable supply of electricity.

The high performance of our plants is matched by a strong commitment to safety and occupational health. Almaraz has now completed seven consecutive refueling outages without any labor-related accidents, whereas Trillo has consolidated its industrial safety leadership thanks to the A-CERO Plan, which has been recognized internationally by WANO. These figures reflect CNAT's proactive approach to the safety of both our workers and contractors.

The year 2024 marked a milestone our efforts towards technological upgrades and reinforced compliance with the strictest regulatory standards. Strategic investments were made at Almaraz Nuclear Power Plant with the aim of reinforcing operational reliability and safety, including significant progress to develop the Interim Storage Facility (ATI-100) and to upgrade critical systems. At Trillo Nuclear Power Plant, investments made it possible to increase operational availability by enhancing systems related to power generation and reactor control. All these projects reinforce our commitment to safe, efficient and sustainable operation in the long term.

Furthermore, in November we renewed the operating license of Trillo Nuclear Power Plant for an additional ten years, until 2034.

This fact undoubtedly speaks volumes about the work of professionals at Trillo NPP, as well as about the money invested in recent years to improve safety, upgrade systems, and modernize technology.

Our work goes beyond energy production. CNAT remains committed to society and the environment, ensuring that our operations have a minimal impact. In 2024, we strengthened our environmental surveillance and quality audit programs so as to guarantee compliance with all national and international regulations. Similarly, we further promote transparency and dialog with our local communities, while fostering our relationships with regulatory institutions and agencies.

The success achieved this year is the result of the effort, commitment, and dedication of everyone at CNAT. Thanks to everyone's work, the power plants Almaraz and Trillo continue to be a benchmark when it comes to safety, innovation, and sustainability in the nuclear industry.

In 2025, we plan to make further progress in our mission to provide safe, reliable, and environmentally friendly electricity, contributing to the development of an energy future that is more sustainable and efficient for society.

MILESTONES 2024

JANUARY

- Tomás Lozano replaces Francisco López as Chairman of the Board of Administrators.
- Krško Nuclear Power Plant (Slovenia) comes to Trillo to learn more about the implementation of the WANO ePM Program.

FEBRUARY

- The Chairman of the Nuclear Regulatory Commission (NRC), Christopher Hanson, visits Trillo Nuclear Power Plant
- CNAT specialists participate in a WANO benchmark visit to Ontario Power Generation.

MARCH

- Meeting of the Extremadura Business Corporation at Almaraz Nuclear Power Plant, supporting continued operation of this NPP.
- Annual Meeting of CNAT Managers.
- Information committee at Almaraz Nuclear Power Plant.

APRIL

- The President of Extremadura, María Guardiola, visits Almaraz Nuclear Power Plant to support the continued operation of this NPP.
- The 28th refueling outage of Almaraz NPP Unit 2 begins.
- Information Committee at Trillo Nuclear Power Plant.
- The Counselor of the Spanish Regulator (CSN), Francisco Castejón, visits Trillo Nuclear Power Plant.

MAY

- End of the 28th Refueling Outage at Almaraz NPP U2.
- The 36th refueling outage of Trillo NPP begins.

JUNE

- Successful completion of the 36th refueling outage at Trillo NPP.
- Trillo nuclear power plant reaches 2 million hours without accidents.
- Annual Onsite Emergency Plan drill at Almaraz NPP.
- The President of the Provincial Council of Caceres, Miguel Angel Morales, visits Almaraz Nuclear Power Plant.

JULY

- The spokesperson for the Political Party “PP”, Miguel Tellado, visits Almaraz Nuclear Power Plant to support continued operation of this NPP.
- CNAT specialists participate in an EPRI seminar in Florida.

SEPTEMBER

- CNAT renews its environmental management certification.
- WANO values positively the progress made by Trillo Nuclear Power Plant after the Peer Review.
- The Secretary General of the Political Party “PSOE” in Extremadura, Miguel Ángel Gallardo, visits Almaraz Nuclear Power Plant.

OCTOBER

- The 30th refueling outage of Almaraz NPP Unit 1 begins.
- Almaraz Nuclear Power Plant prepares for the 2025 Peer Review with an Outage Visit from WANO.
- Annual Onsite Emergency Plan drill at Trillo NPP.
- CNAT hosts the 10th External Committee of Independent Nuclear Oversight (ENSOC).

NOVEMBER

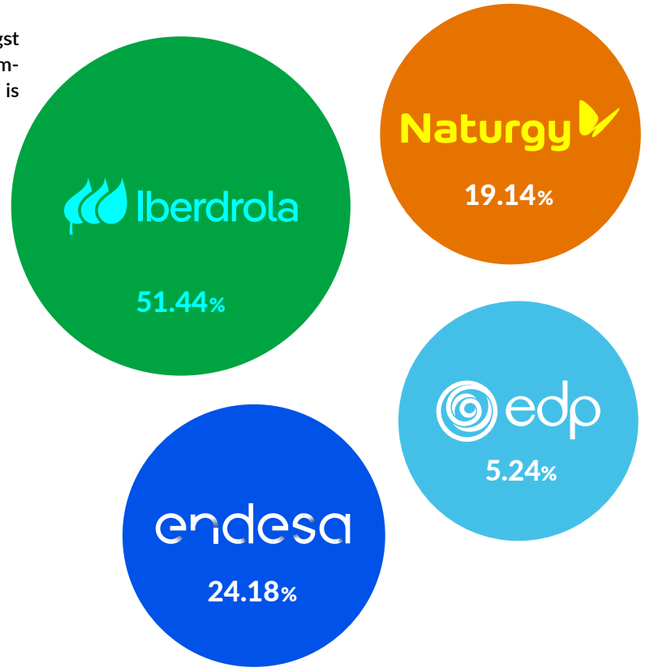
- Trillo Nuclear Power Plant renews its Operating License for 10 additional years, until November 2034.
- Successful completion of the 30th refueling outage at Almaraz NPP Unit 1.

DECEMBER

- The nuclear power plants of Almaraz and Trillo rank amongst the best worldwide; recognized by WANO for their “excellent performance.”
- Approval of CNAT’s Strategic Plan 2024-2028.

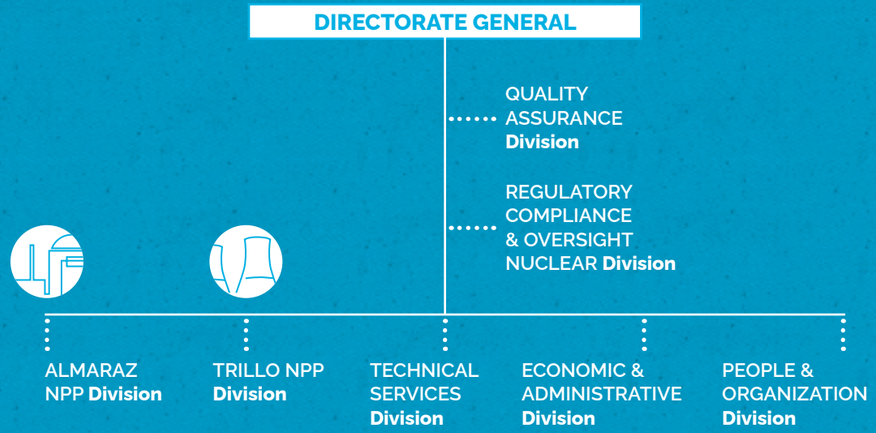
THE NUCLEAR POWER PLANTS OF ALMARAZ AND TRILLO

The distribution of shares amongst CNAT's owner companies in the combined installed power of both stations, is as follows:



ORGANIZATIONAL STRUCTURE

The organization chart shows the organizational structure of the Economic Interest Grouping CNAT:



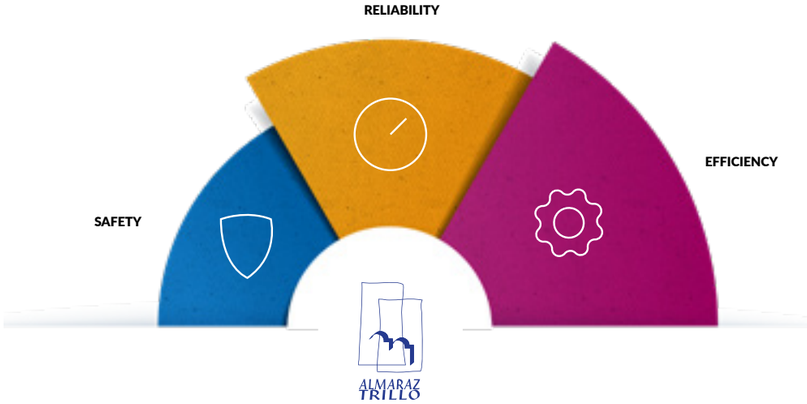
Our VISION **is to keep working with so as to maintain Almaraz and Trillo amongst the benchmark power plants** in terms of safety, quality and efficiency, applying a management model focused on the development and participation of **people** with the intent to move forward on the road to **excellence** as well as to respond to present and future challenges.

MISSION, VISION, STRATEGIC PILLARS

The MISSION of CNAT is to **GENERATE ELECTRICITY IN A SAFE, RELIABLE, ECONOMICALLY SOUND AND ENVIRONMENTALLY FRIENDLY MANNER**, contributing to satisfy national power needs, **supporting the socio-economy fabric around us** and ensuring long-term production by means of optimal operation of the nuclear power plants of Almaraz and Trillo.

Our VISION **is to keep working with so as to maintain Almaraz and Trillo amongst the benchmark power plants** in terms of safety, quality and efficiency, applying a management model focused on the development and participation of **people** with the intent to move forward on the road to **excellence** as well as to respond to present and future challenges.

With the aim of ensuring compliance with CNAT's mission, it is necessary to reinforce the STRATEGIC PILLARS:



OPERATIONS

Almaraz Nuclear Power Plant

The gross power generated between both units at the end of 2024 amounted to 15,656 GWh, preventing the emission of 5.5 million metric tons of CO_2 to the atmosphere. The accumulated gross power generation of this power plant from the start of commercial operation until December 31, 2024 amounts to nearly 630,00 GWh, making it the facility with the largest contribution to the national electricity grid ever.

Almaraz covers 7% of the annual electricity demand of the country, generating each year the energy equivalent to the consumption of 4 million households in Spain.

The high operational availability of this station makes it a key facility for guaranteed power supply.

Almaraz NPP Unit 1 operated stably throughout 2024, except between February 22, 2024, and March 8, 2024, when the plant maintained power at 68% in response to a load dispatcher request.

Later, between March 8, 2024, and March 24, 2024, Unit 1 had a scheduled shutdown as it was not matched in the electricity market.

The rest of the year, Unit 1 operated at 100% power except during the refueling outage (October 7, 2024 to November 8, 2024).

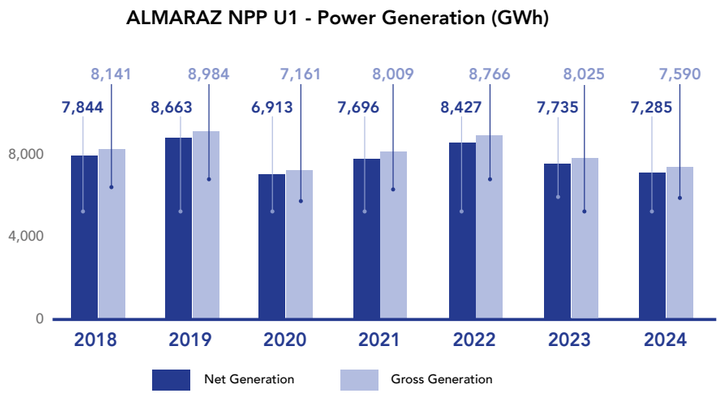
Almaraz NPP Unit 2 also operated stably, except between March 22, 2024, and March 30, 2024, when the plant maintained power at 68% in response to a load dispatcher request. Later, the unit decoupled from the grid on March 30 to begin the 28th refueling outage and general overhaul on April 3, reconnecting to the national grid on May 6.

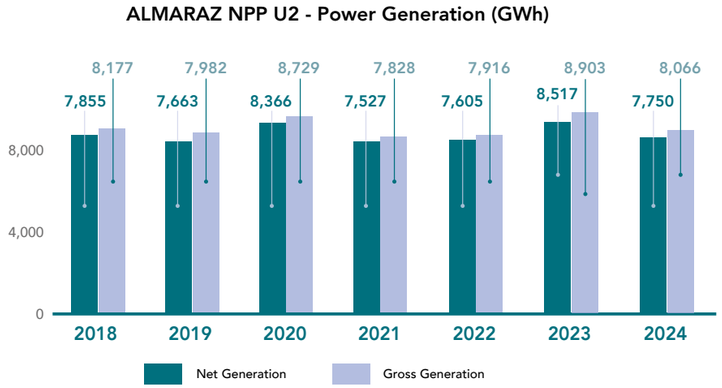
Throughout 2024, Almaraz Nuclear Power Plant reported six licensee events to the Spanish Nuclear Regulator (CSN), all of them classified as INES 0 (below scale).

Speaking of refueling outages, last year Unit 2 completed its 28th whereas Unit 1 executed its 30th, both achieving excellent results which exceeded initial targets in term of duration, nuclear safety, radiation protection, and work quality implementation. It is worth highlighting the site's occupational safety indicators, accumulating seven consecutive refueling outages without a single accident.

The 30th refueling outage at Unit 1 was observed by personnel from the World Association of Nuclear Operators (WANO), who verified the excellent operating practices and work processes used at the plant.

On June 6, the plant successfully carried out the annual Onsite Emergency Plan drill, which involved a scenario of aircraft impact affecting the site transformers and turbine building of both units, causing a total loss of communications. The simulated scenario reached category 4 (General Emergency). This exercise made it possible to evaluate the response given by CNAT's Emergency Response Organization, the operability of assigned resources, as well as the coordination with external agencies and support units involved in this type of situation.





Trillo Nuclear Power Plant

The gross power generated by the site at the end of 2024 amounted to 7,676 GWh, preventing the emission of 3 million metric tons of CO_2 to the atmosphere. The accumulated gross power generation of this station from the start of commercial operation until December 31, 2024 amounts to nearly 300,000 GWh.

Trillo covers 3% of the annual electricity demand of the country, generating each year the energy equivalent to the consumption of 2 million households in Spain. The high operational availability of this station makes it a key facility for guaranteed power supply.

Trillo Nuclear Power Plant operated stably throughout 2024, except between February 22, 2024, and March 8, 2024, when the plant maintained power at 61% in response to a load dispatcher request.

Later in the year, between May 11 and June 11, the 36th refueling outage took place.

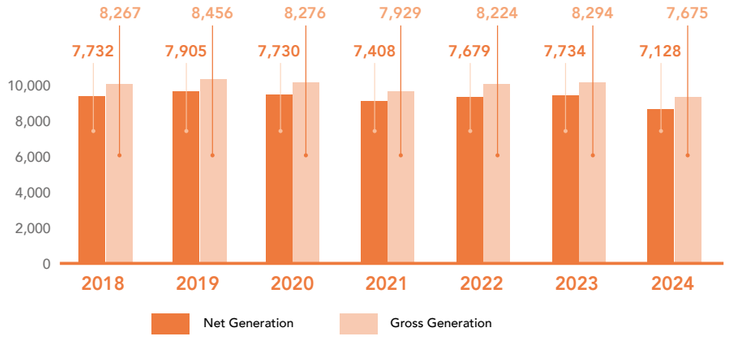
As of December 31, 2024, Trillo accumulates 643 days without lost-time accidents. The implementation of CNAT's A-CERO Plan (Zero Accidents), recognized as a strength by WANO, contributed to achieving these extraordinary results and positioned this plant as an international Industrial Safety benchmark within the nuclear industry.

In November 2024, the Spanish Ministry of Ecological Transition and the Demographic Challenge (acronym: MITECO) granted Trillo Nuclear Power Plant the license needed to continue operating until November 2034.

Throughout 2024, Trillo Nuclear Power Plant reported two licensee events to the Spanish Nuclear Regulator (CSN), all of them classified as INES 0 (below scale).

On October 24, Trillo Nuclear Power Plant carried out the annual Onsite Emergency Plan drill, with the aim of training and preparing Emergency Response Organization personnel to face any type of events which may occur onsite. The drill this year began with a major earthquake, later evolving to a situation in which Category 3 of the Onsite Emergency Plan (Site Emergency) had to be declared. This exercise made it possible to check a number of aspects, including the organization's capabilities, response times, functionality of emergency management procedures, availability of equipment and technical resources, as well as communication effectiveness.

TRILLO NPP - Power Generation (GWh)



PLANNED REFUELING OUTAGES

Almaraz Nuclear Power Plant

→ **28th Refueling Outage at Almaraz NPP, U2: Date: April 3, 2024 to May 6, 2024**

On April 3, works corresponding to the 28th refueling outage of Almaraz Nuclear Power Plant Unit 2 began, recoupling to the grid at 9:20 PM on May 6, date which marked the start of the new operating cycle (number 29). The 28th refueling outage concluded without any occupational accidents for the sixth consecutive time, all while meeting program duration and dose targets.

The refueling outage lasted 33 days (3 hours ahead of schedule).

In addition to replacing 60 fuel assemblies in the reactor core, the 28th refueling outage program included the implementation of nearly 13,000 work orders, some of them involving maintenance activities and plant improvements, as well as the implementation of 27 design modifications which in some cases were linked to requirements and commitments to the Regulator (CSN).

Among the main projects carried out during the refueling outage, it is worth highlighting the eddy current inspection of all tubes in Steam Generator 1, the replacement of three 6.3 kV motors and major overhauls on three 6.3 kV circuit breakers. In addition, 26 motor-operated valve diagnoses and 22 air-driven valve diagnoses, were performed.

In order to complete the planned activities, more than 1,200 additional workers from around 70 specialized contractor companies joined the regular workforce. Most of these additional workers came from the area around the plant.

→ **30th Refueling Outage at Almaraz NPP, U1: Date: October 7, 2024 to November 8, 2024**

Almaraz NPP Unit 1, 8 after completing all tasks associated to the 30th refueling outage, reconnected to the grid on November, date which marked the day of the new operating cycle, number 31.

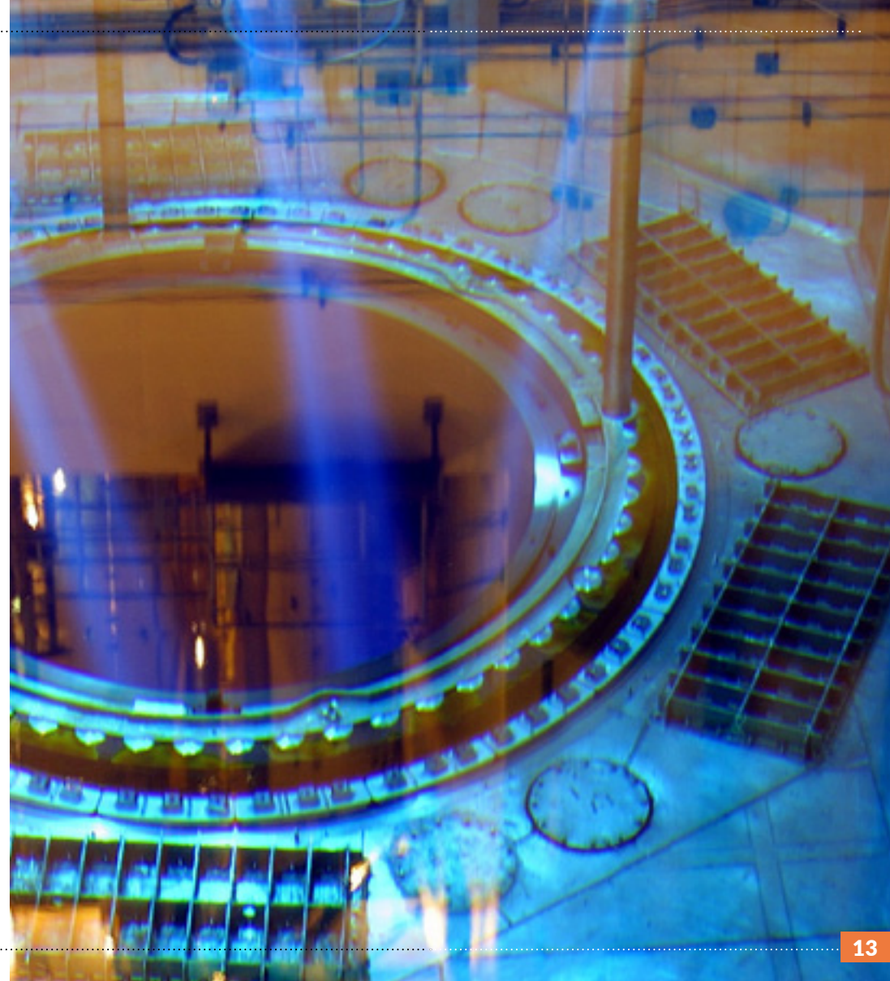
The refueling outage lasted 32.5 days (25 hours ahead of schedule).

The 30th refueling outage concluded without any occupational accidents for the seventh consecutive time, all while meeting program duration and dose targets.

In order to complete the planned activities, more than 1,200 additional workers from around 70 specialized contractor companies joined the regular workforce. Most of these additional workers came from the area around the plant.

In addition to replacing 56 fuel assemblies in the reactor core, the program included the implementation of nearly 13,000 work orders, some of them involving maintenance activities and plant improvements, as well as the implementation of 17 design modifications which in some cases were linked to requirements and commitments to the Regulator (CSN). In addition, WANO experts observed this refueling outage, confirming an excellent performance in terms of work practices and processes onsite.

Some of the main projects carried out during this period include inspections of the reactor vessel, cleaning and inspection of the steam generators, as well as overhaul and inspections of the main pumps and electrical generator. In addition, heat exchangers in the component cooling system were cleaned and inspected, and one of the pressurizer safety valves was replaced.



Trillo Nuclear Power Plant

→ **36th Refueling Outage at Trillo NPP: Date: May 11, 2024 to June 11, 2024**

In 2024, the 36th refueling outage took place, achieving excellent results and exceeding targets related to outage duration, nuclear safety, radiation protection, and work performance quality. It is worth mentioning the site's occupational safety performance, with three consecutive refueling outages without accidents.

For all these reasons, the team working at Trillo Nuclear Power Plant is in the best position to keep helping society by producing electricity in a safe, reliable, cost-effective, and environmentally friendly manner.

The refueling outage lasted 31 days and 5 hours, ending 4 days ahead of schedule.

During the outage, fuel assemblies were replaced, tests required by Tech Specs were carried out, and the facilities, equipment, and components were subject to required inspections and tests so as to ensure proper plant operation throughout the upcoming operating cycle. To this end, the services of over 40 specialized companies were hired, employing more than 1,000 people who joined the regular workforce to carry out scheduled tasks.

Some of the most significant refueling outage data include the completion of 3,959 activities, namely the following:

→ Replacement of 28 fuel assemblies.
→ Eddy current inspection of the control rods.
→ General overhaul of a main Reactor Cooling Pump (RCP) and inspection of seals on another RCP.
→ Replacement of two incore instrumentation lance fingers.
→ Capacity test in batteries of redundancy 4/8 and battery replacement in redundancy 8.
→ Electrical and mechanical inspection in redundancy 3/7.
→ Cleaning and inspection of essential service pool (ZU3).
→ As for the steam generators, an eddy current inspection was carried out on all tubes (100%) in SG 20.
→ As for the turbine-generator set, the high-pressure body of the turbine was overhauled and the valves were subject to a preventive maintenance inspection.
→ Preventive maintenance of valves in one of the three main steam system loops.

RADIATION PROTECTION AND SAFETY

The stations were operated normally in 2024, without any significant incident impacting nuclear safety, radiation protection or occupational and/or environmental safety.

In the case of Almaraz Nuclear Power Plant, the collective dose was 654.33 mSv per person for both units, whereas in the case of Trillo Nuclear Power Plant it was 267.53 mSv per person. Measured results confirmed that the personal dose of radiation workers was significantly lower than the legal limits.

TECHNOLOGICAL UPDATES

In 2024, CNAT stayed on track with its investment plan, which is part of the process rolled out over the last few years with the intent to boost safety and ensure plants remain available by replacing obsolete equipment.

At Almaraz Nuclear Power Plant

€49-million investment to improve personal and nuclear safety, comply with regulatory requirements, as well as to upgrade and modernize equipment according to the state of the art with the aim to maximize reliability.

Key Projects:

- → New well to improve groundwater level control.
- → Tasks to install a new auxiliary steam boiler. (Commissioning scheduled for 2025).
- → Improvements to the CC / SW tube cleaning system.
- → Plan to replace motor-operated actuators (limitorque model SMA) due to obsolescence.
- → Improvements to the suitability of differential protections for start-up transformers.
- → Improvements to group protections.
- → Finalized procurement of a complete spare set of reactor cooling pump internals for Almaraz NPP.
- → Installation of an online vibration monitoring system for CW pumps.

The following multi-year projects are still in progress:

- → Activities required for the Interim Storage facility (ATI-100) in preparation for complete evacuation of the two spent fuel pools (basic design, environmental impact study submitted, application for implementation permit. Ongoing development of Construction Design).
- → Activities for new decontamination workshop and warehouse with the aim to manage operational waste and steam generators (GRO).
- → Repair work on the Arrocampo dam thermal screens.
- → Improvement of Arrocampo cooling tower system (TEVA) efficiency.
- → Replacement of OTOMAX and NOVOMAX breakers with EMAX and Schneider MTZ models.
- → Inspection and replacement of safety motors and stockpiling of strategic spare parts. Further development of the safety motor renewal project REMSE.
- → Further installation of Wi-Fi access points in industrial buildings to enable device connectivity for better Operation and Maintenance.

At Trillo Nuclear Power Plant

€43-million investment to improve personal and nuclear safety, comply with regulatory requirements, as well as to maximize reliability by upgrading and modernizing equipment in line with the state of the art.

Key Projects:

- → Commitments linked to the Operating Permit.
- → Upgrade of diesel generators.
- → Upgrade of main pumps (YD).
- → Overhaul of various turbine-generator set phases (HP turbine, LP turbines and electrical generator).
- → Renewal of safety batteries.
- → Improvement of main power generation transformer cooling.

Other Projects:

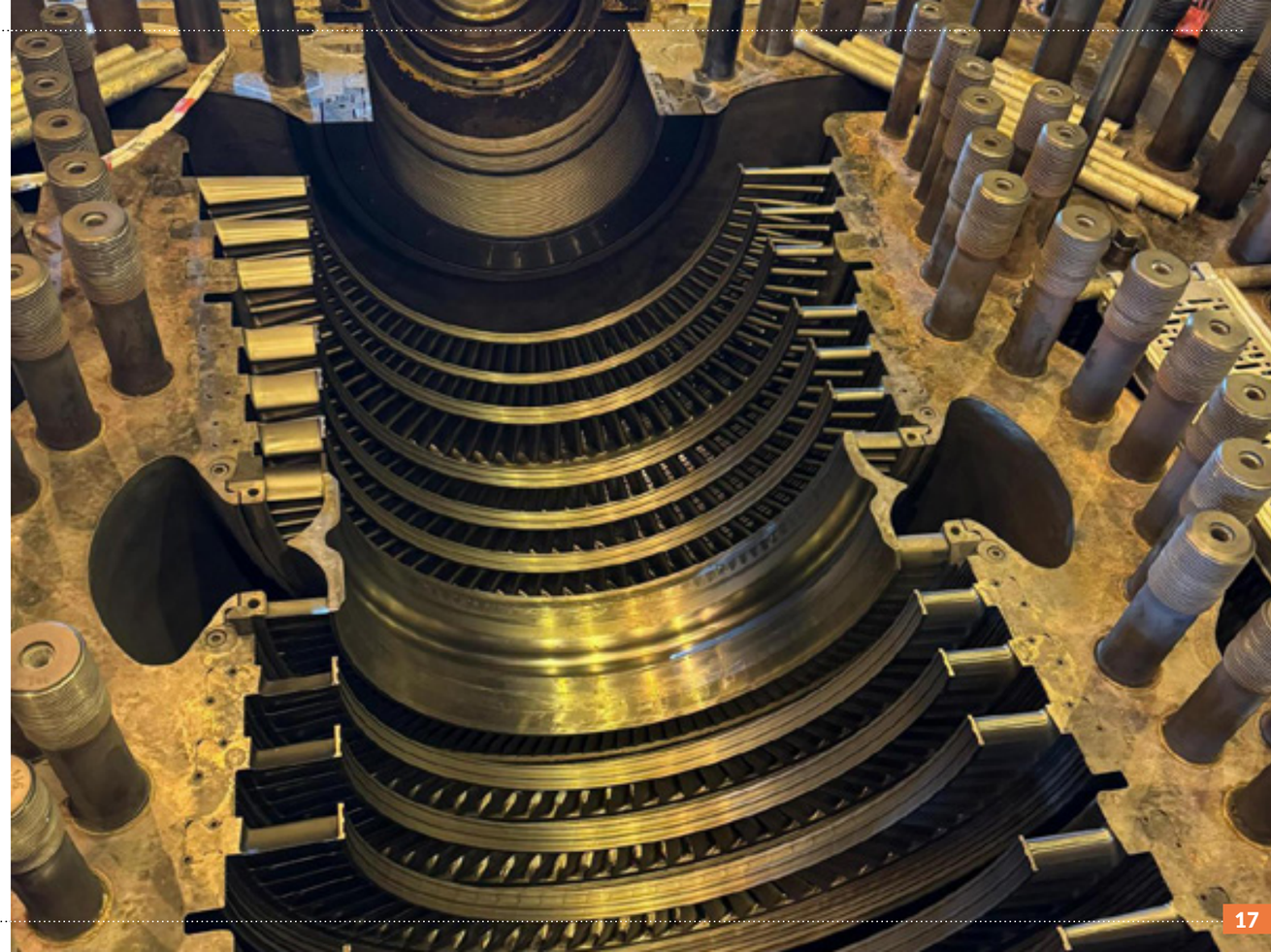
- → Upgrade of aeroball system.
- → Ongoing monitoring of electrical generator.
- → Ongoing monitoring of transformers.
- → Replacement of filling material in natural cooling towers.
- → Completion of technical adjustments in accordance with ATEX regulations.
- → Spares for quick shutoff valves (TF system).
- → Upgrade of H&B actuators. Obsolescence.
- → Rewinding of feedwater motors.

Upcoming Projects:

- → Renewal of reactor regulation system (YR).
- → Renewal of batteries due to end of service life.
- → Renewal of 10 kV breakers.
- → Adaptation of facilities to new Legionella regulations.

The following multi-year projects are still in progress:

- → Procurement of strategic spare parts for quick shut-off valves in the TF system.
- → Upgrade of H&B actuators due to obsolescence.
- → Rewinding of feedwater motors.
- → Ongoing monitoring of parameters for electrical generator and transformers.
- → Installation of Wi-Fi network in industria buildings.



QUALITY

Quality, embedded in all activities carried out at our company, is considered paramount by CNAT to consolidate trust amongst our owners, surroundings, workers and collaborating companies. Ever since 1995, our company's commitment to quality has been recognized by the Spanish Association of Standardization and Certification (AENOR), which granted CNAT the official certificate accrediting that our Quality Management System complies with standard UNE EN ISO 9001:2015 on production of electricity generated by nuclear power.

In 2024, AENOR's certification follow-up audit rendered satisfactory results. In addition, we comply with v, which is the reference quality standard for the nuclear industry and the basis of our Quality Assurance Manual, the requirements of which are permanently audited both in-house by the Quality Assurance units at the plants and corporate headquarters, as well as externally by the Spanish Nuclear Regulatory Agency (CSN).

Similarly, with the aim to determine our level of organizational excellence, CNAT volunteered to receive international evaluations, such as the WANO Peer Review, and participated in international evaluations of other plants worldwide. In 2024, Trillo NPP followed up on the results of the 2022 Peer Review, whereas Almaraz Nuclear Power Plant received the pre-visit for their Peer Review, scheduled for January 2025.

CNAT participated in 4 Peer Reviews and 1 Corporate Peer Review, as well as in 5 industry benchmark visits and 2 Support Missions to other nuclear power plants.

Continuous improvement is part of CNAT's organizational culture, which is why every year we manage around 5,000 improvement and corrective actions based on information coming from external evaluations, independent in-house assessments (Quality Assurance audits and inspections, as well as specific evaluations and other Nuclear Oversight activities), and self-assessments carried out by each unit of their own activities and processes.

Additionally, low-level events are trended with the aim to determine preventive actions that can avoid more relevant incidents from occurring. With that aim, a powerful indicator system is used to monitor all our processes and activities.

3

ENVIRONMENTAL QUALITY MANAGEMENT

CNAT's commitment of respect for the environment is reflected in its Environmental Policy, considered to be the cornerstone of all company actions in this area. This policy drives the implementation of the Environmental Management System and promotes continuous improvement in environmental performance, reflecting the firm commitment of the Management Team. This policy also serves as the basis to articulate the annual programs of targets, as well as the set of environmental activities developed by the Organization.

ENVIRONMENTAL POLICY

CNAT's environmental policy is defined according to the company's organizational goal and context, taking into consideration the nature, magnitude and environmental impact of our activities, products and services. This policy is also the master reference framework of our Environmental Management System, which is used to set and review environmental targets. The policy establishes the following commitments:

- → To fully integrate environmental aspects into the organizational strategy with the aim of ensuring environmental protection, natural habitat preservation and contamination prevention.
- → To improve continuously all processes which could have environmental consequences.
- → To know and assess the environmental risks and opportunities of activities carried out, so as to ensure the achievement of expected results.
- → To comply with applicable environmental regulations and requirements voluntarily subscribed, keeping an attitude of ongoing compliance.
- → To integrate environmental management within all organizational activities and levels, including design, supply, operation and maintenance; identifying, preventing, controlling and minimizing their environmental impact as much as possible:
  - > USING primary materials and energy rationally, and minimizing the generation of waste and conventional and nuclear effluents.
  - > AVOIDING inadequate stockpiling of waste and effluent discharge in non-authorized places.
  - > CONSIDERING the development or application of new technologies to improve efficiency in the generation of electrical power, in the research of environmental aspects and in the promotion of energy savings.
- → To motivate, inform and train personnel on the importance of respect for the environment, fostering the development of an environmental culture and disseminating the Environmental Policy in and out of the Organization, including contractor companies.
- → To be transparent in the sharing of information on environmental results and actions, ensuring the availability of channels needed to favor communication with stakeholders.
- → To implement and maintain an updated, standardized Environmental Management System.

LINES OF ACTION

Regarding environmental aspects, in 2024 CNAT further carried out important work included within the Environmental Management Program, such as the following:

- → Actions aimed at minimizing the production of low and intermediate radwaste: strengthening material declassification processes (used oil, active carbon, metals and others).
- → Definition and implementation of action lines aimed at minimizing the generation of hazardous waste in both stations, as well as promotion of environmental awareness in this area during onsite work coordination meetings.
- → Improvement in the monitoring and control of Trillo Nuclear Power Plant discharge parameters.
- → Actions aimed at reducing the risk of legionella by replacing the filling material in cooling towers (TEVA).
- → Reduction of greenhouse gas emissions through the analysis of fluorinated gas leaks in cooling systems of Trillo Nuclear Power Plant.
- → Reduction of energy consumption in offices by replacing fluorescent lighting with LED technology.

ENVIRONMENTAL AUDITS

CNAT's Environmental Management System has been certified by AENOR since 2005, in accordance with international standard UNE-EN-ISO-14001:2015. From September 23 to 27, 2024, an Environmental Management System Follow-Up Audit was carried out by AENOR Confía S.A.U., whose auditors reviewed the work performed at the Almaraz and Trillo plants, as well as the activities carried out at the Headquarters. The final audit result was "compliant evaluation".

The Environmental Management Certificate, after nineteen years of validity, was renewed in 2023 until November 28, 2026, thus recognizing the engagement of Management and the collective effort of the entire Organization over the years. However, each milestone of this nature should be seen as a new starting point towards a better environmental performance of the company.

Prior to the AENOR audit, an in-house system audit was carried out in June 2024 as part of the verification process required by the system.

The Spanish Regulator also performed a number of inspections at both stations to determine compliance with various environmental aspects.


AENOR
Confía
Certificado del
Sistema de Gestión Ambiental
AENOR
GA-2005/0519
CENTRALES NUCLEARES ALMARAZ-TRILLO, A.I.E.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ENVIRONMENTAL MONITORING PROGRAM

The stations of Almaraz and Trillo have historically implemented different environmental monitoring programs to confirm that both their radiological and conventional activities have no significant impact on the environment.

Analysis of Aquatic Ecosystems

Basically, two environmental studies are carried out in the area around Almaraz Nuclear Power Plant, including the Arrocampo and Torrejon dams: ecological research of the aquatic ecosystem and thermal research of the dams.

These surveillance studies are especially significant because the Arrocampo dam should be considered an integral part of the Almaraz Nuclear Power Plant system.

This dam was built exclusively for industrial use as a cooling system, playing an essential role in ultimate heat dissipation. Therefore, it is essential to have an accurate, up-to-date knowledge of dam characteristics, so as to guarantee its operational reliability in both the short and long term, as well as to ensure intensive control and monitoring of both physico-chemical parameters (especially temperature) and biological parameters.

The environmental analysis around the Trillo power plant currently focuses on monitoring the Tagus River, which receives plant discharges, as well as the Entrepeñas reservoir, downstream from the plant. The analysis scope includes a water quality assessment to monitor physico-chemical properties and the content of metals and other undesirable substances, as well as the characteristics of certain aquatic ecosystem elements such as sediments, benthic algae, phyto- and zoo-plankton and ichthyofauna.

ENVIRONMENTAL RADIATION MONITORING

The Almaraz and Trillo power plants continuously and strictly control and monitor their own radioactive effluent releases. Nevertheless, with the aim to experimentally verify the impact that their radioactive effluents might have on the environment, the stations implement an Environmental Radiation Monitoring Program (Spanish acronym, PVRA) which directly measures radiation levels near the station, as well as the content of radioactive substances in a series of environmental samples taken in a set of sampling points.

All abiotic elements and living organisms representative of the ecosystems in all natural areas around the plants (aerial, terrestrial and aquatic), are fully monitored.

Both stations collect a large number of samples annually with the aim to carry out multiple types of analyses (gamma spectrometry, beta activity, environmental dose, strontium, tritium and radioiodines).

The accuracy of analytical results is ensured through a quality control program implemented by an independent lab and also by an independent surveillance program (Spanish acronym, PVRAIN) carried out by the Spanish Regulator (CSN).

Furthermore, in the case of Almaraz NPP, there is a collaboration agreement with CEDEX by which this official agency, which reports to Spain's Ministry of Transport and Sustainable Mobility, independently monitors the aquatic environment around the station.

The Regional Government of Extremadura also monitors radiation independently through the Environmental Radioactivity Lab of the Extremadura University (LAUREX).

The results obtained in 2024 at both stations indicate that the radiological status of ecosystems in their vicinity has not changed significantly during the year. Natural background values have remained unchanged, thus confirming the absence of environmental effects caused by the release of radioactive effluents. These results were expected considering the nearly negligible radiological relevance of releases from both plants.

WEATHER STUDIES

The nuclear power plants of Almaraz and Trillo have weather stations onsite which continuously measure and register key parameters, including temperature, rainfall, wind direction, wind speed, humidity and solar radiation. Meteorological information is very important for a number of environment-related applications. After more than 30 years monitoring and analyzing meteorological conditions, the power plants have managed to accurately characterize weather patterns at their sites.

Both nuclear sites have the necessary redundancies to ensure ongoing availability of meteorological information.

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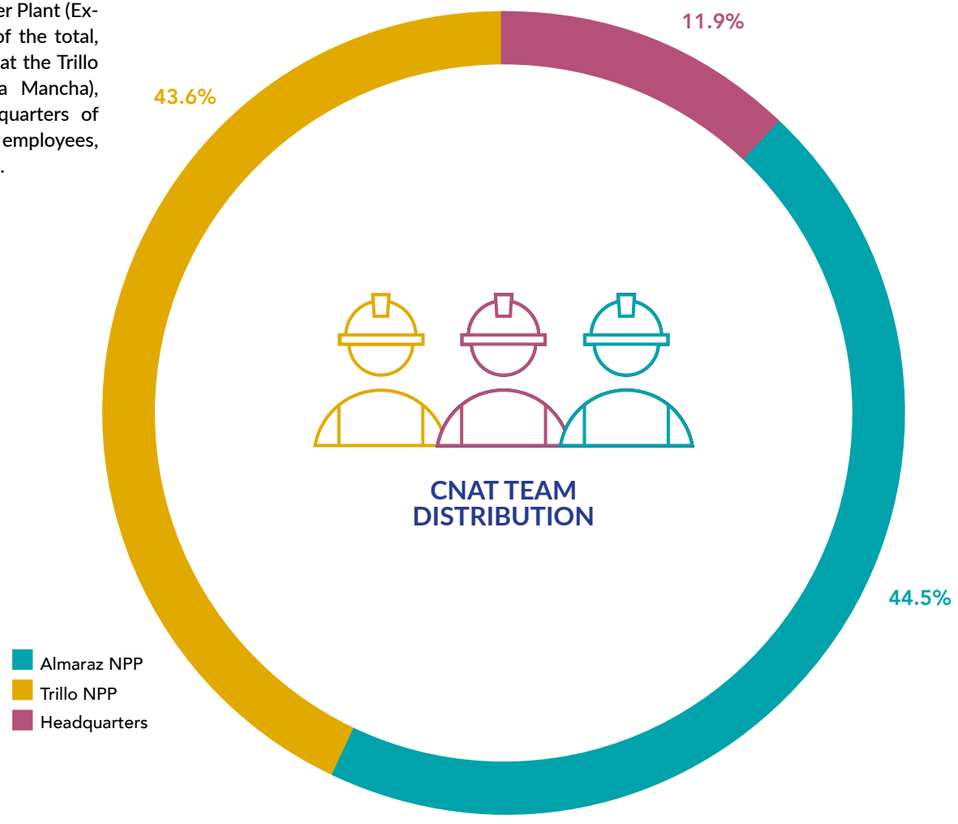
PEOPLE MANAGEMENT

People are the main asset of CNAT. Their collaboration, commitment and identification with the Organization are the best guarantee for safe operation of the Power Plants and fulfillment of business targets. Thus, the human resources policy aims to create a work environment which favors personal and professional development, playing close attention to the health and safety of employees.

As of December 31, 2024, CNAT's team was comprised of 713 highly qualified and experienced professionals, 55% of them (394 people) college undergrads.

Most CNAT personnel can be found at the operating facilities. In that sense, 317 people work at the Almaraz Nuclear Power Plant (Extremadura), representing 44.5% of the total, while 311 workers are employed at the Trillo Nuclear Power Plant (Castilla-La Mancha), equivalent to 43.6%. The headquarters of CNAT in Madrid are staffed by 85 employees, representing the remaining 11.9%.



In 2024, there were 19 new recruits, 4 of them with university degrees. In all cases, these individuals are subject to an initial training program and specific training before they could take on their new job responsibilities.

It should be noted that during normal operation, the CNAT workforce is regularly supplemented by more than 800 professionals from specialized service companies. In addition, during refueling outages, around 1,000 additional professionals join the workforce at Trillo Nuclear Power Plant and up to 1,200 at Almaraz Nuclear Power Plant.

EQUALITY PLAN

CNAT Management and Workforce Representatives unanimously approved an Equality Plan valid until 2025. This plan, designed to respond to the most pressing equality needs within the organization, has some general objectives articulated around five strategic axes:

1. LEADERSHIP AND AWARENESS
→ To reinforce CNAT's commitment to genre equality in the organization in particular and society in general, and to raise awareness on this topic in both of them.

2. EQUAL TREATMENT AND OPPORTUNITIES AT THE WORKPLACE
→ To promote mechanisms and procedures for the recruitment and development of professionals, favoring the integration of women with the required level of qualification in all areas of the organization where they are underrepresented.

3. SALARY EQUITY
→ To guarantee the principle of equal pay so that fixed and variable wages do not include criteria by which some staff members could be discriminated on the grounds of genre. To supervise salary policy application so as to ensure equal pay for work positions of equal value.

4. WORK-LIFE BALANCE
→ To facilitate professional, occupational and personal life reconciliation, regardless of genre, thus establishing a powerful tool that favors equal conditions for men and women through a wide and diverse range of measures.
→ To raise awareness amongst the workforce so that they understand that family duties are a shared responsibility, as well as a right and an obligation, and to ensure that the exercise of these rights does not adversely affect their professional lives.

5. OCCUPATIONAL HEALTH AND PROTECTION OF GENDER VIOLENCE VICTIMS
→ To provide personnel with the required knowledge and skills so as to prevent and channel any situation of potential harassment.
→ To include genre-related aspects in the occupational risk prevention policy and tools.
→ To disseminate, apply and facilitate protection measures for cases of genre violence.

A total of 41 measures were defined to achieve Plan objectives. These measures were reviewed and adapted over time in response to monitoring and evaluation activities. Furthermore, the Plan includes 21 monitoring indicators which are evaluated annually throughout the Plan lifetime.

In order to facilitate the implementation of proposed actions, an Equality Committee was formed within the framework of CNAT's Equality Plan Negotiation Commission. This committee is comprised of 14 members based on parity criteria: seven members appointed by Social Representatives and another seven members appointed by CNAT Management. The latter come from different company areas and represent the three work centers.

A-CERO PLAN

With the firm conviction that all work-related accidents can and must be avoided, CNAT is strongly committed to the Prevention of Occupational Risks. Within this context, the company continues to enforce the "A-CERO" Plan as a priority initiative, focusing on strengthening the preventive culture and leadership with the goal of achieving the collective challenge of zero accidents in the workplace.

In 2024, implementation of key tools such as the Life-Saving Rules (LSR) and Safety Prevention-Related Observations (SPO) was consolidated, contributing to progress toward a more mature safety culture within the organization. This progress resulted in the achievement of increasingly demanding and ambitious targets.

Life Saving Rules (LSR)

LSR implementation has reinforced the awareness of personnel when it comes to strict compliance with safety regulations during implementation of high-risk tasks, such as operations in confined spaces, pressurized systems, lifting loads, handling chemicals, working at height, or working with electrical hazards.

Safety Prevention-Related Observations (PSO)

PSOs have established themselves as an essential tool for promoting safe behaviors, detecting deviations, correcting inappropriate practices, and promoting prevention integration at all levels within the organization. In addition, they are now aligned to the verification of compliance with the LSRs:

- → No. of PSOs at Almaraz Nuclear Power Plant: 588.
- → No. of PSOs at Trillo Nuclear Power Plant: 520.

The involvement of contractor companies was further strengthened in all lines of action of the A-CERO Plan, sharing the common goal of achieving zero accidents in the organization.

Recognition for Industrial Safety Excellence

Following an external audit carried out in 2024 by Audelco, CNAT was recognized for its excellence in occupational health and safety, obtaining a score of over 81 out of 100 in VARA (Audelco Audit Result Assessment), a result above the industry average.

Trillo Nuclear Power Plant

- → No lost-time work accident in 2024.
- → 3 consecutive refueling outages without a lost-time work accident.
- → As of December 31, 2024: 644 consecutive days without a lost-time work accident.
- → Record number of hours worked consecutively without a lost-time work accident: 2,823,613 hours (as of December 31, 2024).

Almaraz Nuclear Power Plant

- → 7 consecutive refueling outages without a lost-time work accident.
- → As of December 31, 2024: 168 consecutive days outages without a lost-time work accident.
- → Record number of hours worked consecutively without a lost-time work accident: 6,943,128 hours.

HEALTH SURVEILLANCE

CNAT's In-House Industrial Service has a Basic Health Unit (BHU) responsible for the health surveillance of workers at the three company work centers. This role is performed by specialists in Occupational Medicine, which is defined by the WHO as "the medical specialty which, either individually or collectively, studies and applies preventive measures to achieve the highest level of physical, mental, and social well-being for workers, in relation to their abilities, to the characteristics and risks of their job, as well as to the work environment and its influence on the general environment. It also promotes the diagnosis, treatment, adaptation, rehabilitation, and classification of work-related or work-induced pathologies."

During medical examinations, the BHU applies specific health surveillance protocols for each job position, defined on the basis of risk assessments carried out by the Technical Prevention area. The information collected is used to prepare study and epidemiological control reports which include data on medical findings, skills, absenteeism levels, illnesses, psychosocial risks and audiometric tests, among others.

In addition, the BHU drafts the Annual Report and Planning required by applicable Occupational Risk Prevention regulations, the documentation required by Spain's Health Ministry and the paperwork resulting from the Promotion of Health. It also participates in mandatory Industrial Safety audits.

Other functions of the BHU are related to health support in case of occupational accident or urgent care, and to provide care for acutely contaminated and irradiated individuals. This is possible because the BHU maintains both the Level 1 healthcare accreditation, as well as all required center permits granted by the regional health agencies. BHU personnel also participate in emergency drills and collaborates in the preparation of associated documentation.

Throughout 2024, COVID-19 continued to be monitored and controlled and, as part of CNAT's commitment as a Health Promoting Company, a number of health promotion campaigns were rolled out with the voluntary participation of our personnel.

The main campaigns focused on colon cancer screening (fecal occult blood), annual gynecologic examinations, nutritional assessments, ophthalmologic pathology screening through the use of non-mydriatic retinography, study of footprint biomechanics, and ergonomic advice in the workplace.

These campaigns were complemented with virtual workshops aimed at promoting healthy habits, including "15-minute daily stretches," "Solve your everyday problems," "Prevent childhood accidents," and "Discover food trends." The response from staff was very positive, highlighting the high participation and appreciation of these initiatives.

In addition, the documentation provided together with the medical examination report, included informative material on healthy lifestyle habits, along with two specific videos: one for female workers on "Women's health at all ages", and another for male workers, focusing on the prevention of prostate and testicular cancer.

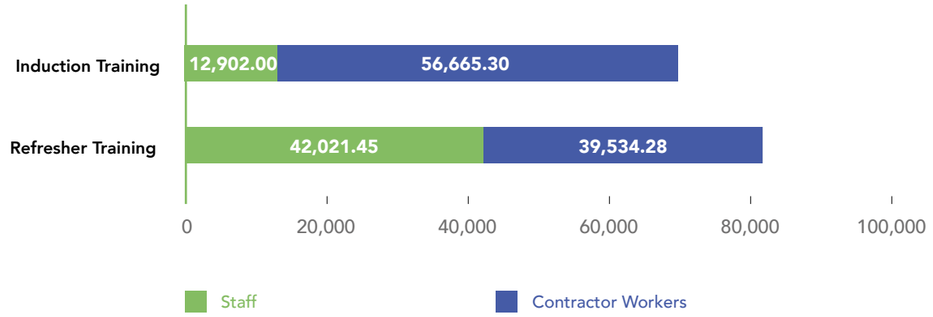
TRAINING

The qualification of personnel working at CNAT constitutes a priority for the organization. For this reason, CNAT allocates permanent resources to the planning and development of annual training programs in each of the three work centers, covering initial training, refresher training, and management skills training.

In 2024, a total of 812 initial training and refresher training courses were delivered, amounting to 151,123.03 hours of training for 5,532 workers. Out of this total, 53.97% corresponded to refresher training and 46.03% to initial training.

In addition, 711 CNAT employees participated in training activities, accumulating 54,923.45 hours of training, representing an average of 77.25 hours per person throughout the year.

In parallel, CNAT continued to strengthen the control and continuous improvement of contractor personnel qualifications. To this end, CNAT promoted the participation of contractors in training programs originally designed for staff, as well as the development of specific actions tailored to their needs. In 2024, a total of 4,830 workers from contractor companies received 96,199.58 hours of training.



RELATIONSHIP WITH SOCIETY

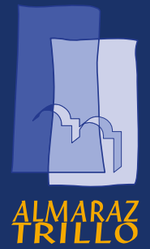
CNAT keeps fluid and dynamic relations with competent institutions within the remit of our stations, holding information sessions every six months, organizing meetings with mayors from the areas around the plants to bilaterally assess the relations of our stations with nearby municipalities and determine possible collaboration channels, participating in the Information Committees organized by Spain's Ministry for Ecological Transition and Demographic Challenge (Spanish acronym, *MITERD*), as well as taking part in institutional meetings with local and regional agencies.

The commitment of the Almaraz and Trillo nuclear power plants to their neighboring communities is reflected in collaboration agreements which have been repeatedly renewed within the framework of projects for social-economic, environmental and educational development.

Similarly, CNAT renewed collaboration agreements with the most representative news agencies and press associations in the areas around the plants. These agreements allow senior students in Information Sciences to be trained and specialize in the field of nuclear electricity.

Over the course of 2024, the information centers at both plants were opened to the general public (in late April at Trillo NPP and in November at Almaraz NPP). In addition, the Information Center continued to be used for institutional visits and corporate events. A total of 522 people were received at the Almaraz NPP information center and 2,272 at the Trillo NPP information center.

Additionally, both the website (www.cnat.es) and blog (www.energiaymas.es) provide information of interest on activities carried out by our stations and the areas around them, thus contributing to further disseminate the role of the nuclear industry.



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