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ALMARAZ & TRILLO NUCLEAR POWER PLANTS

Owner Companies

The owner companies of the Almaraz and Trillo Nuclear Power Plants established in 1999 the Economic Interest Grouping known as "Centrales Nucleares Almaraz-Trillo, A.I.E." (hereinafter "CNAT") with the aim to jointly operate, manage and administer both stations. Their shares in each station have remained unchanged since then. Currently, in application of Royal Decree Law 13/2014, CNAT also holds ownership of the Operating Licenses for these facilities.

The shares of owner companies in the combined installed power of both power plants, is as follows:



ORGANIZATIONAL STRUCTURE

The structure of CNAT is based on the creation of a single organization, with management unity, clear definition and accurate allocation of roles and responsibilities. The Company's governing bodies are the

ALMARAZ NPP

Directorate

TRILLO NPP

Directorate

Assembly of Partners, which includes the owner companies, and the Board of Administrators, which is comprised of representatives from each owner company. The basic organization chart of CNAT is as follows:

GENERAL MANAGEMENT

QUALITY ····· ASSURANCE Department

NUCLEAR **OVERSIGHT AND** REGULATORY COMPLIANCE Department

TECHNICAL SERVICES Directorate

ECONOMIC-ADMINISTRATIVE Directorate

PEOPLE & ORGANIZATION Directorate

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MAIN POWER PLANT FEATURES

ALMARAZ NUCLEAR POWER PLANT (U1-U2)

The station is located in the municipality of Almaraz de Tajo (Caceres, Spain). The land owned by the station covers a surface area of 1,683 hectares, located in the municipalities of Almaraz, Saucedilla, Serrejon and Romangordo.

The station has two nuclear reactors, each with a cooling circuit made up of three loops, each of which is equipped with a cooling pump and a steam generator. Both cooling circuits are contained within their respective containment in each reactor building.

Steam from the steam generators is driven to the turbine building, which houses both turbine-generator sets in the same room, although each of them is independent from the other. The Arrocampo reservoir, cold source specially built for this purpose, is common to both units and supplies water to the cooling intake.

The following table shows the main technical features of the plant:

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 (UO₂) Number of Fuel Assemblies: 157 Gross Electric Power: 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) – 1 julio 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 In 2024, the gross power generated between both Almaraz Nuclear Power Plant units amounted to 15,655.898 million kWh, whereas the joint net generation reached 15,035.917 million kWh.

Individually, the gross power generation of Unit 1 was 7,589.787 million kWh, whereas for Unit 2 it amounted to 8,066.111 million kWh.

The following graphs show the daily gross generation of both units throughout 2024:





ALMARAZ NPP OPERATION 2024 (GWh) - UNIT 1 Annual Generation: 7,589,787.1 MWh



ALMARAZ NPP OPERATION 2024 (GWh) - UNIT 2 Annual Generation: 8,066,110.8 MWh



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MAIN POWER PLANT FEATURES

TRILLO NUCLEAR POWER PLANT

Trillo Nuclear Power Plant (Trillo NPP) is located in the Alcarria region, next to the course of the Tagus River, in an area known as "Cerrillo Alto" in the municipality of Trillo (Guadalajara). Trillo NPP is the most modern power plant within the Spanish nuclear fleet, with an installed power of 1,066 MWe.

The station has a pressurized water reactor with a thermal power of 3,010 MWt and three cooling loops of German Siemens-KWU technology, using enriched uranium as fuel.

Unlike Almaraz nuclear power plant, two natural draft cooling towers are used for cooling, whereas a water collection channel and its corresponding booster pumps are used to cool the condenser and lift water inside the towers. Water flow evaporated by the towers is compensated by the weir water intake located on the Tagus River.

The following table shows the main technical features of the plant:

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, Spain)

TECHNICAL FEATURES

Reactor Type: Pressurized Water Reactor (PWR) Supplier: KWU Thermal Power: 3,010 MWt Fuel: Enriched Uranium Dioxide (UO₂) Number of Fuel Assemblies: 177 Gross Electric Power: 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 17, 2034 for a period of 10 years

Cycle Duration 12 months The gross power generation of Trillo Nuclear Power Plant from January 1 to December 31, 2024, amounted to 7,675.819 million kWh, with 7,128.473 million kWh corresponding to the net generation during this period.

The following graph shows the daily power generation over the year 2024:







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MISSION, VISION, STRATEGIC PILLARS

The MISSION of Centrales Nucleares Almaraz-Trillo is to produce electrical energy in a SAFE, RELIABLE, ECONOMIC AND ENVIRONMENTALLY FRIENDLY MAN-NER, contributing to meeting the country's energy needs, supporting the socio-economy of its surroundings and guaranteeing long-term production through optimum operation of the Almaraz and Trillo plants.

Our VISION is to continue working to maintain Almaraz and Trillo among the benchmark plants in terms of safety, quality and efficiency, through a management model focused on the development and participation of the people that makes it possible to advance on the road to excellence and to be able to respond to present and future challenges.

In order to achieve CNAT's mission, the **STRATEGIC PILLARS** must be reinforced:

RELIABILITY

ALMARAZ TRILLO

SAFETY



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ENVIRONMENTAL QUALITY MANAGEMENT

In order to achieve its mission within a socially responsible framework, CNAT has different corporate policies which establish working guidelines for the entire organization.

Which drives ongoing performance improvement and the application of the Environmental Management System, reflecting Management's commitment and constituting the guiding principle from which environmentally-related annual target programs and general business activities, are derived.

Each and every department within the organization have taken onboard CNAT's environmental policy, integrating the commitment of respect for the environment within their processes.





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The policy established by the organization is presented below:

CNAT's environmental policy is defined according to its organizational goal and context, taking into consideration the environmental nature, magnitude and impacts of activities, products and services, and establishing itself as the master reference framework of its Environmental Management System, which sets and reviews environmental targets.

The policy establishes the following commitments:

 \rightarrow To fully integrate environmental aspects into the organizational strategy with the aim to ensure protection of the environment, preservation of the natural setting and prevention of contamination.

- \rightarrow To improve continuously all processes with environmental consequences.
- \rightarrow To know and assess the environmental risks and opportunities of activities carried out, with the aim to ensure expected results are achieved.
- To comply with applicable environmental regulations and requirements voluntarily subscribed, keeping an attitude of ongoing compliance.
- \rightarrow To integrate environmental management in 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 stockpile 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 collaborating companies.

- \rightarrow To be transparent in the sharing of information on environmental results and actions, ensuring the availability of channels needed to favor communication with stakeholders.
- \rightarrow To implement and maintain an updated, standardized Environmental Management System.

In line with this Policy, CNAT's Environmental Management System was certified by AENOR IN-TERNACIONAL SAU back in 2005, in accordance with the international standard UNE-EN-ISO 14001 (certification number GA-2005/0519). This three-year certificate was last renewed in 2023, as required by standard UNE-EN-ISO 14.001:2015, valid until November 2026.

This way CNAT is able to use its Environmen-



tal Management System to identify organizational and environmental risks and opportunities which need to be addressed every year, considering environmental aspects, legal requirements and other voluntarily subscribed requisites, internal and external organizational issues, as well as stakeholder needs and expectations. All these considerations are managed by means of specific prevention and mitigation tools in the case of risks, and through action plans when it comes to opportunities.

Furthermore, CNAT's environmental management includes the identification and evaluation of environmental aspects based on the life cycle perspective, with the aim to identify and assess the aspects with greater impact on plant activities.





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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 NPP discharge parameters.
- → Actions aimed at reducing the risk of legionella by replacing the filling in cooling towers (TEVA)
- → Reduction of greenhouse gas emissions through the analysis of fluorinated gas leaks in cooling systems of Trillo NPP.
- Reduction of energy consumption in offices by replacing fluorescent lighting with LED technology.



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ENVIRONMENTAL MANAGEMENT RESULTS

The Nuclear Power Plants of Trillo and Almaraz generate electricity from the fission of slightly enriched uranium atoms. Thermal energy resulting from uranium fission is used to produce the steam that drives the turbine which, in turn, moves the electrical generator.

The basis for developing an adequate and effective environmental management system is the correct identification of all "elements in our activities, products and services which might interact with the environment", that is, the so-called environmental aspects, which are evaluated by CNAT to determine their impact and establish control measures aimed at managing them and guaranteeing environmental protection. The main aspects are grouped into the categories presented below.

It is also important to point out that, similarly to previous years, the most relevant environmental aspects are related to the generation of radwaste and spent fuel, consumption of resources (cooling water), generation of hazardous waste and water quality (physical-chemical discharge and thermal discharge).

Consumption of Material Resources

This category of Environmental Aspects refers to the use of abiotic resources, both within the main power generation process, as well as in auxiliary services.

The main consumption levels correspond to:

- → Water
- → Enriched uranium
- → Gas-oil
- → Chemicals









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Water consumption

Nuclear power plants need a water source as a primary circuit coolant to facilitate the condensation of steam which, after expanding in the turbine, drives the electrical generator to produce electricity. A small part of that condensation is consumed during in-house processes due to evaporation. whereas the remaining one is returned to the recipient natural environment.

Water consumption is directly related to the number of operating power plant hours and, therefore, to the generation of electricity. It is important to point out that water consumption depends not only on the cooling needs and operating regime of the power plants, but also on weather conditions (mainly temperature and humidity) because, during the summer months, increased temperature and evaporation entail a need to consume larger volumes of water.

Almaraz NPP and Trillo NPP are supplied with cooling water from the Tagus River,

which is why both stations have the corresponding water collection permits granted by the Tagus River Water Authority.

On the other hand, there is additional water consumption for consumptive uses, mainly to do with plant supplies such as irrigation, FP, sanitation and circuit makeup. The latter includes, in the case of Almaraz NPP, makeup to compensate for evaporation in the turbine cooling system towers.

Both stations have a discharge point into the Tagus River, through which water used but not consumed, is returned to the environment. Station effluents are treated before discharge into the receiving environment, undergoing thorough monitoring of physical and chemical parameters.

The totals consumed during the year and the above-mentioned applications (cooling and consumptive) in both stations, are presented below.

ATER	INTAKE	

Cooling needs Consumptive use	(EVAPORATED: Tagus river intake -discharge) (Cifuentes river intake)
Cooling needs	(EVAPORATED: Calculated Arroccampo Dam & Cooling Towers)
Consumptive use	(Gross Tagus river water intake)

Uranium Consumption

The fuel used by the stations to generate electricity is enriched uranium, which is placed directly related to the number of operating power plant hours.

Uranium is conditioned to form fuel assemblies which are then inserted into the nuclear reactor vessel. Core design (layout of fuel assemblies inside the reactor) is ultimately in-

tended to ensure safety and reliability, and to comply with licensing parameters and criteria. Once this basic premise is achieved, the aim of core design is to optimize uranium consumpinside the reactor. Uranium consumption is tion and to extract as much energy as possible.

Gas-Oil Consumption

Gas-Oil B is used in both stations mainly for the emergency power generation system (diesel engines which would kick in should a total

UANTITY	(m ³)
2024	

TRILLO NPP 15,779,485 62,730

ALMARAZ NPP

41.017.969

1,054,213

loss of offsite AC power supply occur), auxiliarv shutdown steam (boilers only at Trillo Nuclear Power Plant) and practical exercises in the Fire Protection training field.

Another type of fuel used is gas-oil A, used mostly by company vehicles.

Specific gas-oil consumption in 2024 was as follows:

GAS-OIL CONSUMPTIC	S-OILQUANTITY (m³)NSUMPTION2024	
	ALMARAZ NPP	TRILLO NPP
Gas-oil B	212.84	608.16
Gas-oil A	54.45	20.96

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Chemical Consumption

Almaraz and Trillo nuclear power plants store onsite various chemical products needed to guarantee the quality and purity of cooling circuit water and cycle make-up water. The most widely used chemicals are as follows: sulfuric acid. sodium hydroxide, sodium hypochlorite and ammonia.

The consumption of these chemicals is directly related to the amount of consumed and collected water, which in turn requires greater regulation of chemical parameters to ensure proper treatment.

CNAT strives to make an efficient use of materials, minimizing waste generation and environmental pollution.

The consumption of the main chemicals used onsite, expressed as a quantity of pure product, is shown below.

CHEMICAL CONSUMPTION 202	4 (t	QUANTITY pure product)
ALM	ARAZ NPP	TRILLO NPP
Sulfuric acid	96.35	4,223.82
Sodium hydroxide	12.24	39.87
Sodium hypochlorite	18.76	160.24
Ammonia	101.01	0.28
Oils	26.56	19.07

to mention that in Trillo NPP sulfuric acid A part of the electricity generated by consumption is significant, as this chemical is both stations is used for in-house power used in the cooling tower circuit to maintain consumption (because most equipment required chemical conditions (prevention of and activities onsite require power calcium carbonate fouling). The same system for their daily operation), whereas the also consumes a significant amount of sodium remaining generation is sold onto the hypochlorite as biocide.

As for ammonia, it is used in Almaraz NPP as an alkalizing agent in the secondary circuit (water - steam), whereas in Trillo NPP its consumption is lower due to the characteristics of this system.

Energy consumption

The direct energy consumed within the operational limits of the power plants comes from primary sources: uranium (for the most part) and gas-oil.

From uranium, another intermediate Based on the previous table, it is important form of energy is generated: electricity. Energy Market.

Direct energy consumption is detailed below:

POWER CONSUMPTION¹

Fuel: Uranium Fuel: Gas-oil B Fuel: Gas-oil A Auxiliary Electricity (Self-consumption)



¹Actual annual uranium consumption is expressed as the thermal energy used in relation to the total reactor-generated energy which is then transformed into electricity, considering an average efficiency of 33%. Auxiliary electricity for self-consumption is determined as the difference between gross energy and net energy generated at both stations. GJ conversion: 1 kWh = 0.0036 GJ. Source of Lower Calorific Value (LCV) for gas-oil: Spain's Department of Environmental Transition and Demographic Challenge, National Greenhouse Gas Inventory Report. Edition 2024 (1990-2022).

- LCV Fixed Sources: Annex VII. CO₂ Emission Factors and LCV of Combustibles.
- LCV Portable Sources: Table 3.8.8. Specifications for fuels in road transport.

QUANTITY (GJ) 2024

CN. ALMARAZ	CN. TRILLO
170,791,615	83,736,207
7,779.34	22,228.08
1,963.37	755.88
2,231,931.6	1,970,445.6

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Conventional Emissions to the Atmosphere

Emissions from combustion activities

No greenhouse gases or other combustion products contributing to the greenhouse effect are generated in the nuclear power generation process.

However, the use of gas-oil B as fuel, mainly to power auxiliary boilers and emergency diesel units, causes the generation of atmospheric pollutants, including a small amount of greenhouse gases which are released into the atmosphere. Transport-induced emissions, mainly resulting from the use of vehicles and fire-fighting training activities, are also considered.

It should be noted that the operating regime of these combustion sources is not continuous because, during normal operation, diesel generators are started up only to conduct periodic tests or maintenance work, whereas normal operation of auxiliary boilers (only at Trillo NPP) occurs only during refueling outages with the aim to supply auxiliary steam.

The following graph shows an estimate of greenhouse gas emissions from diesel combustion (CO_2 , CH_4 , N_2O), expressed in metric tons of equivalent CO_2 , (teq CO_2)³.





The basic indicators of total emissions into the air, are the annual quantities of sulfur dioxide (SO₂), nitrogen oxides (NOx) and carbon monoxide (CO) emitted into the atmosphere from the consumption of gas-oil A and B, expressed in equivalent metric tons of $CO2_2^4$.

² Emission factors to estimate CO₂, CH₄, and NO₂ (GHG) emissions resulting from gas-oil combustion in fixed and portable installations: Emission factors for carbon footprint registration, offsetting and carbon dioxide absorption projects by Spain's Department of Environmental Transition and Demographic Challenge (June 2023). ³ GWP of CO₂, CH₄, and NO₂ emissions (GHG) resulting from gas-oil combustion: Fifth IPCC Evaluation Report. GWP Emission Factors: Sixth Report, IPCC 2013 (100-year time horizon). ⁴Calculation based on emission factors published on EMEP/EEA air pollutant emission inventory guidebook 2023.



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ENVIRONMENTAL REPORT

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Emissions of Fluorinated Gas

In compliance with the Regulation on substances which deplete the ozone layer, CNAT has striven to replace equipment containing HCFCs with HFC-type gases at both plants over the years. There are currently no HCFCs onsite.

As for the use of greenhouse gases, they are present in HFCs of cooling equipment, air conditioning units, Fire Protection (FP) equipment and SF6 in high voltage breakers. The only emissions to the atmosphere from these products would be those derived from possible losses, which is why both Almaraz NPP and Trillo NPP carry out preventive and corrective maintenance and controls to prevent leaks in accordance with current regulations.

Noise

 on Noise pollution is another form of environmental contamination. The stations are equipped with some noisy equipment and components (areas for pumps, ventilation, transformers, e cuauxiliary generators, etc.), which may alter normal environmental conditions in a given area due to noise.

> In the case of Almaraz Nuclear Power Plant, national and regional regulations establish the obligation to take acoustic measurements.

> Both power plants have procedures to carry out the acoustic measurements required by law, thus complying with applicable limits for each activity.

Light Pollution

Due to the location of both power plants and how their lighting is configured, it is understood that light pollution does not have a major impact on the environment.

Lighting levels are set according to Security requirements.

Conventional Liquid Effluents -Physical-Chemical Discharge

To guarantee proper physical and chemical water quality prior to discharge into the receiving environment, both stations have wastewater treatment plants and a collection network for all liquid effluents, with exhaustive monitoring of physical and chemical parameters.

Water discharge activities are also regulated and have to be authorized by the Tagus Water Authority. On a monthly basis, samples are taken by an Inspection Body for analysis and verification of compliance with applicable limits.

The following graphs show the evolution of key parameters limited by their corresponding discharge permits. These parameters are sent monthly to the Tagus Water Authority.



2020

25

21.8



WASTEWATER DISCHARGES TRILLO NPP



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Radiological Releases of Gas and Liquid Effluents

Radiological releases offsite, both atmospheric and liquid, are limited within the framework of the Operating License and regulated according to existing standards of Spain's Nuclear Regulator (CSN).

Offsite doses caused by liquid and gaseous effluents from both stations remain

at very low values, clearly under thresholds required by the CSN and specified on the corresponding Offside Dose Calculation Manuals. These doses are negligible compared to those from the natural radiation background (attached graphs show the year-onvear evolution).

The natural radiation background is between 700 to 1200 μ Sv/year near the sites, while doses deriving from plant operation range between 50 to 100 times lower in the most unfavorable scenario. Realistic dose calculations, which take into account human geography and actual activities in the area, vield values even lower than those above-mentioned. Thus, it is concluded that plant operation has a negligible contribution to environmental radiation.

The stations have Environmental and Radiological Monitoring Programs aimed at detecting

Liquid effluents

possible radiological impacts on the environment.

Doses measured within the Framework of Radiological Monitoring Programs.

The existing Environmental and Radiological Monitoring Programs provide information on the evolution of dose values measured around both stations.





TRILLO NPP



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Waste Generation

As a result of their activities, the Nuclear Power Plants of Almaraz and Trillo generate hazardous waste, non-hazardous waste. Low and Intermediate Level Waste (LILW) and Very Low Level Waste (VLLW). All this waste is identified, stored and managed according to existing regulations and Environmental Management System procedures.

In addition to the above-mentioned waste, High Level Waste is generated during refueling outages onsite. Approximately one third of fuel assemblies in the reactor vessel are removed and transferred to the spent fuel pools after their replacement with fresh fuel.

High Level Waste

In 2024, a total of 144 spent fuel assemblies were removed from the reactors: 28 fuel assemblies from Trillo NPP and 116 assemblies from Almaraz NPP Unit 1, all of them replaced with fresh fuel assemblies. The volume of fuel removed from both station is approximately 27.74 m³.

The spent fuel is stored onsite, in designated pools inside the controlled area. By December 31, 2023, a total of 1,496 spent fuel assemblies of Almaraz NPP Unit 1, 1,528 of Almaraz NPP Unit 2 and 544 of Trillo NPP, were stored. In addition, both stations now have an Interim Storage Facility (ISF) enabling dry storage inside double-purpose, storage-transport casks.

At the end of 2024, a total of 928 fuel assemblies were stored in 40 casks at Trillo NPP and 544 spent fuel assemblies were stored in 17 ENUN-32P casks at Almaraz NPP.

The graph shows the evolution of spent fuel generation at both stations over time. The higher values at Almaraz NPP correspond to periods coinciding with two refueling outages in well as maintenance materials, coveralls and the same year.

Generation of high activity radwaste

m³/vear (fuel removed from reactor)

70

60

50

Very Low Level Waste and Low and Intermediate Level Waste

This type of waste is a consequence of plant operation and maintenance of the plants, during activities carried out in the radiologically controlled area. They include both depleted filtration and purification coolant means, as protective clothing.

Depending on the specific activity (concentration) of their radionuclides, radwaste can be classified as LILW or VLLW. All waste types have been optimized since the station was first commissioned, making use of state-of-the-art working procedures and waste treatment and conditioning facilities, and fostering amongst all station personnel an environmental culture aimed at reducing, sorting and recycling (whe-



re possible) all waste materials. As a result of waste sorting measures implemented in recent vears, the content of radioactive isotopes in the waste is being reduced and its concentration is decreasing, thus favoring waste classification.

Low and Intermediate Level Waste is treated at the stations to facilitate its final disposal. Each type of waste, depending on its origin, has a specific conditioning process. The main waste products are as follows:

- \rightarrow Depleted ionic change resins.
- → Boiler concentrate.
- \rightarrow Filtration sludge.
- \rightarrow Pressable solid waste.
- \rightarrow Non-pressable heterogeneous solid waste.
- → Filters.
- \rightarrow Dried waste (sludge, other).

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In 2024, Almaraz NPP generated 44.44 m³ of Low and Intermediate Level Waste (LILW) and 140.70 m³ of Verv Low-Level Waste (VLLW), whereas in Trillo NPP the volumes were 49.06 m³ and 24.64 m³ respectively. The graph includes the joint evolution of this waste generation.



The diagram shows the proportional distribution of each category.



Drums containing resins Drums containing filters Dried waste Miscellaneous non-pressable element Drums containing pressable solids Drums containing concentrates

Low and Intermediate Level Waste and Verv Low-Level Waste, once conditioned and with the aim to make them suitable for final disposal, are temporarily stored at the stations Non-radioactive industrial waste is generated and periodically removed by ENRESA (Spain's National Radwaste Company) to the El Cabril facilities in Cordoba.

were made to El Cabril by each plant (187.32 m³ sent by Almaraz and 72.82 m³ by Trillo).

Generation of Hazardous and Non-Hazardous Waste

too, mainly due to preventive maintenance on conventional machinery and equipment: oil changes, sludge from cleaning equipment, fil-During 2024, several radwaste shipments ters, containers, etc. All these activities result in the generation of different categories of Hazardous and Non-Hazardous Waste. In exceptional cases, waste may also be generated as a result of design modifications, work implementation and uncommon corrective maintenance activities. This type of waste

leads to fluctuations in historical series.

In line with the commitment to minimize waste generation, selective waste sorting is carried out to separate recoverable materials contained in waste so that only residue which cannot be reused and/or recycled is sent for final disposal (landfill). To this end, plant personnel receive training and information to better sort generated waste at the source.

Hazardous waste is managed according to the corresponding Hazardous Waste Minimization Research guidelines for each plant.

The evolution of Hazardous Waste was as follows:



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The following graph shows the percentage of each hazardous waste types in 2024:

Machinery lubrication and motor oil

Water mixed with other chemicals

Declassified active carbon

Batteries

Expired or non-used chemicals

Water with oil and hydrocarbons

Water mixed with oil and sludge

Other waste with hydrocarbons

Containers and packages which

contained hazardous waste

Absorbent material and rags

Water mixed with detergent

or foaming agent

Waste froma appliances

and electronic devices

Impregnated metals and ball

bearings containing grease

Materials containing asbestos

from separation facilities



to over 5 metric tons)

As for Non-Hazardous Waste, the main category is the generation of sludge waste and urban waste.

The year-on-year evolution of Non-Hazardous Waste is shown below:



Waste from appliances and electronic devices

Glass

Generation of Non-Hazardous Waste



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Biodiversity

Almaraz Nuclear Power Plant is located in the region of Campo Arañuelo (Caceres, Extremadura), in an area bounded by the Tietar and Tagus Rivers.

Almaraz NPP covers a surface area of 428 hectares (excluding the fields flooded by the Arrocampo dam), of which approximately 1,123,000 m² correspond to the industrial areas of the station, with the remaining surface area being mostly wooded land.

The area has a continental climate, with a scarce, irregular rainfall pattern which makes the fields more prone to pasture than to farming. Grassland and irrigated land are the two predominant forms of land use. The site is close to a large number of environmentally protected areas, including the Monfragüe National Park SCI and SPA, as well as the grasslands of both the surrounding area and the Arrocampo dam.

Trillo Nuclear Power Plant, located in Castile-La Mancha, in the Alcarria region (Guadalajara), next to the course of the Tagus River, covers a surface area of approximately 554 hectares, of which approximately 870,000 m² correspond to the industrial areas of the station, whereas the rest is mostly wooded land.

La Alcarria has a continental Mediterranean climate, typical of inland Iberian Peninsula areas, with strong changes in temperature: very hot summers and very cold winters, with low rainfall and occasional frost. The site of the power plant is located near the Upper Tagus Natural Park SCI and SPA.

Flora and fauna

Taking into account the principle of precaution, CNAT places great emphasis on strengthening knowledge on the environment, participating in different studies aimed at better understanding the behavior of species in the habitats where the stations are located.

Furthermore, since filling of the Arrocampo dam began in 1978, a Monitoring and Control Plan including limnological and ichthyological studies, was established. Since then, these studies have been carried out uninterruptedly along the Arrocampo and Torrejon dams, in line with their corresponding permits.

More information on these studies is provided in the section on Environmental Monitoring Programs.



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LEGISLATION

The facilities comprising CNAT are subject to compliance with a wide range of regulations, and are required to obtain the necessary administrative permits to carry out their activities, including wastewater discharges and waste generation, amongst other.

CNAT guarantees the legal compliance of its facilities through the application of a systematic approach ensuring the identification of and adherence to applicable environmental requirements.

The Environmental Management System includes an IT tool and monthly-updated legislative database which contains all legal or voluntary conventional provisions classified in the applicability scope of CNAT (including the corresponding detailed reauirements).

The legal compliance verification process takes place every six months, reporting results to CNAT Management, more

specifically to the Environmental Committees and to the Annual Management Board which reviews the Environmental Management System.

In terms of environmental legislation, the following laws were particularly relevant to our activities in 2024:

- Resolution of the General Directorate for Fire Prevention and Extinction, dated March 18, 2024, on Review of the Almaraz NPP Technical Report on Forest Fire Prevention.
- → Regulation (EU) 2024/573 of the European Parliament and of the Council of February 7, 2024 on fluorinated greenhouse gases, amending Directive (EU) 2019/1937, and repealing Regulation (EU) No. 517/2014.

- → Regulation (EU) 2024/590 of the European Parliament and of the Council of February 7, 2024, on substances that deplete the ozone layer, and repealing Regulation (EC) No. 1005/2009.
- → Law 1/2024. dated March 15. on Administrative Measures and the Creation of the Digital Transformation Agency of Castile-La Mancha.
- → Order of May 15, 2024, which establishes the period of high forest fire risk for the IN-FOEX Plan in 2024, regulates the use of fire and activities likely to generate the risk of forest fires during this period, and develops the General Measures and Self-Protection Measures.

- Resolution (CLM), dated June 3, 2024, of the Vice-Ministry of the Environment. establishing temporary limitations to reduce the risk of fires in the natural environment.
- Regulation (EU) 2024/1244 of the European Parliament and of the Council, dated April 24, 2024, on the reporting of environmental data from industrial facilities, establishing an Industrial Emission Portal and repealing the Regulation.
- Spain's Royal Decree 614/2024, dated July 2, amending Royal Decree 487/2022, dated June 21, on sanitary requirements for prevention and control of legionelosis.
- \rightarrow Resolution of the Tagus Water Authority to Modify the Conditions of the General Discharge Permit for Almaraz NPP.

 \rightarrow Order TED/1191/2024. of October 24. which regulates electronic systems for controlling the water volumes used by water users, returns and discharges to the public water system.

 \rightarrow Order TED/1269/2024. of November **11**, granting the renewal of the Operating Permit to Trillo Nuclear Power Plant 1.

 \rightarrow Order ITU/1475/2024. of December 17. amending Order ICT/155/2020, of February 7, which regulates the metrological control over the condition of certain measuring instruments.

→ Royal Decree 1217/2024, of December 3, approving the Regulation on radioactive nuclear facilities, and other activities related to exposure to ionizing radiation.

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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, the Environmental Management System Certification 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 Certi-

ficate 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.

	IQNE
Certificado del Sistema de Gestión Ambiental	
AENOR GESTIÓN AMBIENTAL 15014002	CENT Avenida MANO
GA-2005/0519	
AENOR certifica que la organización	
CENTRALES NUCLEARES ALMARAZ-TRILLO.	
A.I.E.	
dispone de un sistema de gestión ambiental conforme con la Norma ISO 14001:2015	•
para las actividades: La producción de energía eléctrica de origen nuclear.	•
que se realiza/n en: Oficinas Centrales: Avenida MANOTERAS, 46 BIS, EDIFICIO DELTA NOVA 6, 5º PLANTA, 20050 - MADRID Central Muchae de Almana: PL/NR199, 10350 - ALMARAZ DE TAJO(CACERES) Central Muchae de Tillo: CERRILLO ALTO, S/N. 19450 - TRILLO (GUADALAJARA)	Fin
Primera emisión.2005-11-28 Ottima emisión.2023-11-29 Expiración.2026-11-28	
Ratael GARCIA MEIRO (20)	This attestation is
ALINOR INTERNACIONAL S.A.U. Genera, 6. 2000 Madrid. España	IONET Members': AENOR Spain AFNO Cro Cert Croata DQ Colombia ICS Bosni LSOA Uruguay MIRT

Building trust together.

Certificate

ENOR has issued an IQNET recognized certificate that the organization:

FRALES NUCLEARES ALMARAZ-TRILLO, A.I.E.

Oficinas Centrales: TERAS, 46 BIS, EDIFICIO DELTA SOVA 6, 5° PLANTA 28050 - MADRID

Central Nuclear de Almaraz: Trillo: N-V, KM 199 CERRILLO ALTO, 10350 - ALMARAZ DE TAJO (CACERES) (GUADALAJARA)

has implemented and maintains a/an Environmental Management System

for the following scope: Nuclear power generation. which fulfils the requirements of the following standard

ISO 14001:2015

issued on: 2005-11-28 Last issued: 2023-11-28 Validity date: 2026-11-28

Registration Number: ES-2005/0519

Alex Stoichitoiu President of IONET

Rafael GARCÍA MEIRO

GARCÍA MEIRO CEO AENOR

rectly linked to the IQNET Member's original certificate and shall not be used as a stand-alone document.

Certification France APCER Fortugal CCC Cyprus CISO Italy COC Chins COM Chins COS Crech Republic Holding CmHH Germany EAALE Certification Group USA FCXV Frank FONDONORMA Vivenzusk ICONTEC and Viercegnera Impects Sertificial for Vincial NTEC Costa Inc. IBAM Argentus JAA Japan KVO Forea Coreco MSZT Hungay Nemite AS Norway NSA Instant NYCE-SBE Meloc PCBC Foland Quality Austina Comana SIRM QAS International Melosis SQS Sectament SQAR Comana TSE Tricker VQDS Secta

of issue of this certificate. Updated information is available under www.ignet-certification.com

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ENVIRONMENTAL MONITO-RING 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.

The content of these programs is as follows:

Studies of the Environment Around Almaraz Nuclear Power Plant

Basically, two environmental studies are being carried out in the area around Almaraz nuclear power plant, including the Arrocampo and Torrejon dams:

- Ecological research of the aquatic ecosystem.
- → Thermal research of the dams.

The scope of these surveillance studies is far-reaching because the Arrocampo dam is considered as another plant system built exclusively to provide industrial cooling and ultimately final heat dissipation to Almaraz NPP. Thus, it is necessary to have an accurate understanding of Arrocampo dam features in terms of its cooling capabilities in the short and long terms, as well as to ensure intensive control and monitoring of its physico-chemical parameters (especially temperature) and biological parameters. The main characteristics of the Arrocampo dam are as follows.

The main characteristics of the Arrocampo dam are as follows:

 \rightarrow Capacity of 35.5 hm³.

 \rightarrow Very elongated shape, with a length of over 10 km, a surface area of 7.73 km² and predominantly shallow waters.

The dam is divided into two parts by a thermal separation screen which forces cooling water to travel approximately 25 km along the length of the dam with the aim to cool it down before returning to the cooling intake.

Natural water input to the Arrocampo dam is very low, as it is fed mainly by water pumped from the Tagus River.

Water fed into the Arrocampo dam from the Torreion dam has a high load of nutrients. particularly phosphorus and nitrogen.

These nutrients, together with the water temperature effect, cause Arrocampo to have a significant biomass of planktonic organisms which must be controlled and monitored because their metabolic processes have an impact on water quality.

Ecological Research of the Arrocampo and Torreion Dams

The monitoring of aquatic ecosystems in both dams consists of two independent. coordinated research studies:

- \rightarrow Limnological survey.
- → Ichthyological survey.

These surveys help to determine ichthyofauna conditions, as well as the diversity and abundance of species taking into account their evolution over time.

The **limnological study** of the Arrocampo and Torrejón dams, as well as the Essential Waters reservoirs, is included within the monitoring and control program for reservoirs in the area around Almaraz Nuclear Power Plant, and has been performed on an annual basis since 1978.

From a limnological perspective, activities are carried out to ensure detailed monitoring of water physico-chemical parameters (temperature, mineralization, oxygenation conditions and nutrients), biological plankton sta-

tus analysis, as well as their correlations and synergies. Limnological monitoring is very intense and includes thorough sampling and daily surveillance during the summer.

With respect to the ichthyological study, four sampling campaigns are carried out, one for each season of the year, in order to cover the maximum seasonal variability of the fish ecosystem.

The results of both surveys, which are submitted to the Administration, suggest there is a dynamic balance in the Arrocampo dam ecosystem, which is mainly impacted by plant operation power levels, physical-chemical characteristics and flow of the Torreion inflow, and weather conditions in the area. This balance has not undergone any significant changes in recent years. As for the Torrejon dam, its initial section is conditioned by zoning from deep water turbine flow from the Valdecañas dam, whereas the middle section is conditioned by recirculated flow from the Arrocampo dam and the final section by flow pumped from Tietar.

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Thermal Research of the Arrocampo and Torreion Dams

The evolution of water temperature in the Arrocampo and Torreion dams, as well as of measured values, is thoroughly monitored with the aim to know the thermal impact of plant operation on these bodies of water. There are also online measurement and registration systems for temperature, pH. dissolved oxygen and water flow in the Arrocampo spillway, with the intent to confirm the adequacy of Arrocampo discharge parameters.

In compliance with water usage permit conditions, on a monthly basis the most relevant information on thermal dam conditions is sent to the Tagus River Water Authority, competent body of the Administration, so that it can have uninterrupted knowledge of dam status.

Studies of the Environment Around Trillo Nuclear Power Plant

The environmental analysis of aquatic ecosystems around the Trillo power plant currently involves monitoring the Tagus River, into which water from the plant is discharged, and 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 other aquatic ecosystem elements such as sediments, benthic algae, phyto- and zoo-plankton and ichthyofauna.

The Tagus River water intake is supplied with water dammed in the Ermita weir, built to ensure makeup pumps could supply to a constant water volume to the station. Once water has been used for cooling purposes, it is discharged back into the river, immediately downstream of the weir by means of a diffuser system allowing complete mixing with the river flow.

The plant is located in the far end of the Upper Tagus area, known for considerable river flowrate variations due to a lack of regulation upstream which at times causes minor floods when rainfall is intense and leads to solids being dragged, something which negatively impacts water quality. Other than that, Tagus water quality in the area of the station is generally good and can be classified as oligotrophic.

The Entrepeñas reservoir, located downstream of the power plant, is characterized by its low water level over the last few years, with significant level variations throughout the year. The Entrepeñas reservoir stores water mainly used to irrigate and generate hydro power and, together with the Buendia reservoir, they supply water to the Tagus-Segura water transfer.

The sampling and analysis program comprises four (4) sampling points both upstream and downstream of the Ermita weir. This includes a point in the Entrepeñas reservoir where on a quarterly basis water samples are taken, whereas on a yearly or bi-yearly basis, depending on the parameter under analysis, biological samples (phytoplankton, fish, phytobenthos, macrophytes, macroinvertebrates) and hydromorphological samples are obtained.

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.

The accuracy of analytical results is ensured through a quality control program carried out 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 CE-DEX by which this official agency, which reports to the Spain's Ministry of Public Works, independently monitors the aquatic environment around the station. The Regional Government of Extremadura also monitors radiation independently through the University of Extremadura.

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.

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Meteorological Studies

The nuclear power plants of Almaraz and Trillo have weather stations onsite which continuously measure and record 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 thirty 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.

The average temperature and total rainfall values recorded during the last years in each plant, as well as the frequency compass rose for each wind direction, are presented below.





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WIND ROSE ALMARAZ NPP

Wind Rose for the 1987-2024 period

Wind Rose of the year 2024



Wind Rose of the year 2024





WIND ROSE TRILLO NPP

Wind Rose for the 1987-2024 period

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RELATIONSHIP WITH STAKEHOLDERS

Communication is a key pillar within the Environmental Management System. Actions in this area, focused on disseminating information about our actions and raising awareness in environmental matters, are aimed at both employees and individuals outside the organization but somewhat linked to it: official agencies, neighbors, associations, the media and the general public: all these parties are called stakeholders.

Local Corporations

CNAT continues to maintain fluid and dynamic relationships with institutions having competences in the plants' sphere of action, participating in Information Committees convened by the Ministry

for Ecological Transition and Demographic Challenge (Spanish acronym, MINTERD), organizing meetings with mayors in the surrounding areas to bilaterally analyze the relationship between the station and each municipality and to determine possible collaboration options, as well as holding institutional meetings with local and regional agencies.

In 2024, a number of half-vearly face-to-face meetings were held with majors of nearby municipalities and the media. These encounters are useful to share detailed information on operational results and upcoming plans and projects. Similarly, the plants were represented at the Almaraz and Trillo Information Committee, organized by official nuclear energy agencies and intended to be a forum where required data is provided when needed.

The Media

An intense relationship is also maintained with the media based on truthfulness, transparency and our permanent willingness to satisfy their demand for information. During 2024. 23 press releases were distributed. providing information on the most significant events at the stations in a wide variety of operational and maintenance issues (refueling outages, drills, environmental issues and other information of general interest).

The Public

Over the years, the Information Centers at Almaraz and Trillo nuclear power plants have consolidated themselves as effective channels of communication with society. Thanks to a diversity of audiovisual and exhibition resources installed at the centers. nuclear energy, more specifically the characteristics of nuclear facilities and their key environmental aspects, are now much better known to the general public.

CNAT continues to issue both periodical and specific publications. During 2024, several publications were made available to the general public, most of which are accessible on CNAT's website (www.cnat.es).

Immediate Environment

The Almaraz and Trillo nuclear power plants represent an important socio-economic reference, as they are unquestionable sources of wealth and job creation in their areas of influence. The stations, as part of their commitment to their neighboring communities, support initiatives which enhance the quali-

ty of life and foster the economic and social development of their regions. In 2024, multiple initiatives were carried out, with the most significant in terms of the environment being the following:

- \rightarrow Collaboration with local town halls around Almaraz NPP to roll out a number of projects for improvement and development of the area.
- → Agreement with the Valdecañas Irrigation Association.
- \rightarrow Collaboration with local town halls around Trillo NPP to roll out a number of projects for improvement and development of the area.
- \rightarrow Agreement with the Tagus Riverside Association to implement programs and actions in the areas of economic, social, cultural and environmental development.



TRILLO NPP

Apdo Correos, 2

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